

# ICMCTF 2026 Program Key

|               |   |
|---------------|---|
| <b>CM</b>     | Advanced Characterization, Modelling and Data Science for Coatings and Thin Films                                   |
| <b>EX</b>     | Exhibitors Keynote Lecture  |
| <b>HL</b>     | Awards Ceremony and Honorary Lecture  |
| <b>IA</b>     | Surface Engineering - Applied Research and Industrial Applications  |
| <b>IUVSTA</b> | International Union for Vacuum Science, Technique and Applications  |
| <b>KYL</b>    | Keynote Lectures  |
| <b>MA</b>     | Protective and High-temperature Coatings  |
| <b>MB</b>     | Functional Thin Films and Surfaces  |
| <b>MC</b>     | Tribology and Mechanics of Coatings and Surfaces  |
| <b>MD</b>     | Surface Engineering of Biomaterials, Devices and Regenerative Materials: Health, Food, and Agriculture Applications |
| <b>PL</b>     | Plenary Lecture   |
| <b>PP</b>     | Plasma and Vapor Deposition Processes   |
| <b>TS</b>     | Topical Symposium on Sustainable Surface Engineering  |
|               | <b>TS1</b> Coatings for Batteries and Hydrogen Applications   |
|               | <b>TS2</b> Coatings and Surfaces for Renewable Energy Technology  |
|               | <b>TS3</b> Circular Strategies for Surface Engineering  |

# ICMCTF 2026 Program Overview

| Room /Time | Golden State | Palm 1-2   | Palm 3-4   | Palm 5-6   | Town & Country A                               | Town & Country B   | Town & Country C   | Town & Country D   |
|------------|--------------|--|--|--|--|--|--|--|
| MoPL       |              |  |  |  | PL-MoM: Plenary Lecture                        |  |  |  |
| MoM        |              | MD1-1-MoM: Coat & Surf for Med Dev: Mech, Corr, Tribo, & Surf Processing I     | MA1-1-MoM: Coatings for High Temps & Harsh Envir Applications I  | MB3-MoM: Low-dimensional Materials and Structures          | PP1-1-MoM: PVD Coatings and Technologies I     | TS1-1-MoM: Coatings for Batteries and Hydrogen Applications I                          |  |  |
| MoKYL      |              |  |  |  | KYL1-MoKYL: Keynote Lecture I                  |  |  |  |
| MoA        |              |  | MA1-2-MoA: Coatings for High Temps & Harsh Envir Applications II | MB2-1-MoA: TF for Emerging Elect & Quantum Photonic Dev I  | PP1-2-MoA: PVD Coatings and Technologies II    | TS1-2-MoA: Coatings for Batteries and Hydrogen Applications II                         | MA4-1-MoA: Boron-containing Coatings I                               | CM3-1-MoA: Data-Driven TF Design: Hi-Through Exper, Simul, & ML I    |
| TuM        |              | CM1-1-TuM: Spatially-res and in situ Char of TF, Coating & Eng Surfaces I      | MA3-1-TuM: High Entropy & Otr Multi-princ-element Materials I    | MB2-2-TuM: TF for Emerging Elect & Quantum Phot Devices II |  | MD1-2-TuM: Coat & Surf for Med Dev: Mech, Corr, Tribo, & Surf Proc II                  | MC3-1-TuM: Tribology of Coatings & Surf for Ind Applications I       | MA4-2-TuM: Boron-containing Coatings II                              |
| TuEx       |              |  |  |  | EX-TuM: Exhibitors Keynote Lecture             |  |  |  |
| TuA        |              | CM1-2-TuA: Spatially-resolved & in situ Char of TF, Coating and Eng Surfaces I | MA3-2-TuA: High Entropy & Otr Multi-princ-element Materials II   | MC2-1-TuA: Mechanical Properties and Adhesion              | MA2-1-TuA: Hard and Nanostructured Coatings I  | MD2-1-TuA: Coatings & Sens Health, Food & Agric: Antibac, Bio, & Flexible Interfaces I | TS3-TuA: Circular Strategies for Surf Engineering                    |  |
| WeM        |              | IA2-1-WeM: Surf Mod of Comp in Auto, Aero & Manuf Apps I                       | MA3-3-WeM: High Entropy & Otr Multi-princ-elem Matls III         | IUVSTA-WeM: IUVSTA Special Session                         | MA2-2-WeM: Hard and Nanostructured Coatings II | PP2-1-WeM: HIPIMS, Pulsed Plasmas, & Ener Deposition I                                 | CM3-2-WeM: Data-Driven TF Design: High-Through Exper, Simul & ML II  |  |
| WeKYL      |              |  |  |  | KYL2-WeKYL: Keynote Lecture II                 |  |  |  |
| WeA        |              | MB1-WeA: Optical Materials and Thin Films                                      |  | TS2-1-WeA: Coatings & Surf for Renew Energy Tech I         |  | PP2-2-WeA: HIPIMS, Pulsed Plasmas, & Ener Deposition II                                | MC3-2-WeA: Tribology of Coatings & Surf for Ind Apps II              |  |
| WeHL       |              |  |  |  | HL-WeHL: Bunshah Award Honorary Lecture        |  |  |  |
| ThM        |              | IA3-ThM: Innov Surf Eng for Adv Cutting & Forming Tool Apps                    | MB2-3-ThM: TF for Emerging Elec & Quantum Phot Devices III       |  |  | MD2-2-ThM: Coat & Sensors for Health, Food & Agr: Antibact, Bio. & Flex Int II         | CM2-1-ThM: Adv Mech-Phys Testing of Surf, TF, Coat & Small Volumes I | TS2-2-ThM: Coatings & Surf for Renewable Energy Tech II              |
| ThKYL      |              |  |  |  |  | KYL3-ThKYL: Keynote Lecture III  |  |  |
| ThA        |              | PP4-ThA: Greybox Models for Wear Prediction                                    | MC1-1-ThA: Friction, Wear, Lub Effects, & Modeling I             | ASED Executive Session                                     |  | PP3-ThA: CVD, ALD, and Laser-based Dep & Microfab Tech                                 | CM3-3-ThA: Data-Driven TF Des: Hi-Through Exper, Simul, & ML III     | IA2-2-ThA: Surface Mod of Comp in Auto, Aero & Manuf Applications II |
| ThP        |              |  |  |  | POSTER SESSIONS                                |  |  |  |
| FrM        |              | PP2-3-FrM: HiPIMS, Pulsed Plasmas, & Energ Dep III                             | MC1-2-FrM: Friction, Wear, Lub Effects, & Modeling II            |  |  | MC3-3-FrM: Trib of Coatings and Surf for Indl Applications III                         |  | IA1-FrM: Adv in App Driven Res & Hybrid Syst, Proc, & Coatings       |

# Monday Morning, April 20, 2026

**Plenary Lecture**  
**Room Town & Country A - Session PL-MoM**  
**Plenary Lecture**  
**Moderator:**  
**Sandra E. Rodil**, Universidad Nacional Autónoma de México

8:00am **PL-MoM-1** Welcome and Opening Remarks

8:20am **INVITED: PL-MoM-2** Nano-Engineered Materials: Heterostructures and Composites,  
**Pulickel M. Ajayan**, Rice University, USA

8:40am

9:00am

# Monday Morning, April 20, 2026

|         | <b>Functional Thin Films and Surfaces</b><br><b>Room Palm 5-6 - Session MB3-MoM</b><br><b>Low-dimensional Materials and Structures</b><br><b>Moderators:</b><br><b>Kostas Sarakinos, University of Helsinki, Finland</b>                   | <b>Plasma and Vapor Deposition Processes</b><br><b>Room Town &amp; Country A - Session PP1-1-MoM</b><br><b>PVD Coatings and Technologies I</b><br><b>Moderator:</b><br><b>Christian Kalscheuer, IOT, RWTH Aachen, Germany</b>   |
|---------|--|---|
| 10:00am | <b>INVITED: MB3-MoM-1</b> Shape and Symmetry Engineering in Transition Metal Dichalcogenide Nanoribbons for Light Harvesting, <i>Ganesh Ghimire, Stela Canulescu</i> , Technical University of Denmark, Denmark                            | <b>PP1-1-MoM-1</b> Optimizing Sputter-Deposited MoS <sub>2</sub> Coatings: Insights from Monte Carlo Simulations and In-Situ Plasma Diagnostics, <i>Alexander Mings (Student), Steven Larson, Kyle Doorman, Tomas Babuska, John Curry, Remi Dingreville, David Adams</i> , Sandia National Laboratories, USA  |
| 10:20am |  | <b>PP1-1-MoM-2</b> HiPIMS and Digitalization: Increasing Efficiency in Machining, <i>Stephan Bolz, Biljana Mesic, Oliver Lemmer, Christoph Feig</i> , CemeCon AG, Germany   |
| 10:40am | <b>INVITED: MB3-MoM-3</b> Discovery of Goldene Comprising Single-atom Layer Gold; Prospects for Novel Noble Metallenes, <i>Lars Hultman</i> , Linköping University, IFM, Thin Film Physics Division, Sweden                                | <b>INVITED: PP1-1-MoM-3</b> From Poisoned Targets to Healthy Models: The Quest for Parameters, <i>Diederik Depla</i> , Ghent University, Belgium  |
| 11:00am |  |   |
| 11:20am | <b>MB3-MoM-5</b> Nanoporous TiO <sub>2</sub> Thin Films by Helium-Assisted Sputtering for Noble-Metal-Free Hydrogen Sensing, <i>Stanislav Haviar, Akash Kumar, Tomáš Kozák, Petr Zeman</i> , University of West Bohemia in Pilsen, Czechia | <b>PP1-1-MoM-5</b> Advanced YSZ Coatings Deposited by Magnetron Sputtering for High-Temperature Applications, <i>Imene Toumi (Student)</i> , Université de Technologie de Troyes, France; <i>Sofiane Achache</i> , Université de technologie de Troyes, France; <i>Akram Alhussein, Benoit Panicaud</i> , Université de Technologie de Troyes, France |
| 11:40am |  |   |
| 12:00pm |  |   |

# Monday Morning, April 20, 2026

|  |   |  |  |
|--|---|--|--|
| <p><b>Protective and High-temperature Coatings</b><br/> <b>Room Palm 3-4 - Session MA1-1-MoM</b><br/> <b>Coatings for High Temperatures and Harsh Environment Applications I</b><br/> <b>Moderators:</b><br/> <b>Francisco Javier Perez Trujillo</b>, Universidad Complutense de Madrid, Spain</p> |   | <p><b>Surface Engineering of Biomaterials, Devices and Regenerative Materials: Health, Food, and Agriculture Applications</b><br/> <b>Room Palm 1-2 - Session MD1-1-MoM</b><br/> <b>Coatings and Surfaces for Medical Devices: Mechanical, Corrosion, Tribocorrosion, and Surface Processing I</b><br/> <b>Moderator:</b><br/> <b>Jean Geringer</b>, Ecole Nationale Supérieure des Mines, France,<br/> <b>Mathew T. Mathew</b>, University of Illinois College of Medicine at Rockford and Rush University Medical Center</p> |  |
| 10:00am  | <p><b>MA1-1-MoM-1</b> Improving the Lifetime and Efficiency of Next Gen Aircraft Turbine Engines with PVD, <b>Thibault Maerten</b>, Oerlikon Balzers Coating AG, France</p>   | <p><b>INVITED: MD1-1-MoM-1</b> NaOH Etching and Oxygen Plasma Treatments on Surface Characteristics and Their Potential to Activate Micro-Arc Oxidized TiO<sub>2</sub> Biomedical Coatings,<br/> <b>Paulo Noronha Lisboa-Filho</b>, UNESP, Brazil</p>  |  |
| 10:20am  | <p><b>MA1-1-MoM-2 Graduate Student Award Finalist Talk: Mechanisms of Solid Particle Erosion in Aerospace Materials and Protective Coatings</b>, <b>Stephen Brown (Student)</b><sup>1</sup>, <i>Etienne Bousser, Benjamin Milan-Ramos</i>, Polytechnique Montréal, Canada; <i>Juan Manuel Mendez</i>, MDS Coating Technologies, Canada; <i>Marjorie Cavarroc-Weimer</i>, Safran Tech, France; <i>Ludvik Martinu, Jolanta Ewa Klemberg-Sapieha</i>, Polytechnique Montréal, Canada</p> |  |  |
| 10:40am  | <p><b>INVITED: MA1-1-MoM-3</b> Microstructure and Oxidation of PVD Coatings on TiAl and Ni Superalloys for High-Temperature Applications, <b>Radosław Swadźba</b>, Łukasiewicz Research Network - Upposilesian Institute of Technology, Poland</p>  | <p><b>MD1-1-MoM-3</b> Influence of Microstructures on the Corrosion Behavior of Cobalt-Chromium Alloys Under Different Ortho Joint Conditions, <b>Mathew T. Mathew</b>, <i>Avirup Sinha, Sujoy Ghosh, Maansi Thapa, Remya Ramachandran, Nicki Ta</i>, University of Illinois at Chicago, USA</p>   |  |
| 11:00am  |   | <p><b>INVITED: MD1-1-MoM-4</b> Synergistic Fretting–Corrosion Mechanisms in DLC Coatings, <b>Tomasz Liskiewicz</b>, Manchester Metropolitan University, UK; <i>Samuel McMaster</i>, Anglia Ruskin University, UK; <i>Michael Bryant</i>, University of Birmingham, UK; <i>Thawhid Khan</i>, University of Sheffield, UK; <i>Yu Yan</i>, University of Science and Technology Beijing, China; <i>Ben Beake</i>, Micro Materials Ltd, UK</p>   |  |
| 11:20am  | <p><b>MA1-1-MoM-5</b> Predictive Analytics of Aluminide Diffusion Coatings Using Machine Learning to Forecast Their Aging and Service Life, <b>Vladislav Kolarik</b>, <i>Maria del Mar Juez Lorenzo</i>, Fraunhofer Institute for Chemical Technology ICT, Germany; <i>Pavel Praks, Renata Praksová</i>, IT4Innovations National Supercomputing Center, VSB - Technical University of Ostrava, Czechia</p>  |  |  |
| 11:40am  | <p><b>MA1-1-MoM-6</b> Tailored Formation of Intermetallic Phases in Nanolayered Metallic Systems, <b>Vincent Ott</b>, <i>Sven Ulrich, Michael Stüber</i>, Karlsruhe Institute of Technology (KIT), Institute for Applied Materials (IAM), Germany</p>   | <p><b>MD1-1-MoM-6</b> Mechanisms of Fretting Corrosion in Titanium-based Biomedical Modular Implant Interfaces, <b>Avirup Sinha (Student)</b>, <i>Vinod Prabhakar, Mathew T. Mathew</i>, University of Illinois - Chicago, USA</p>   |  |
| 12:00pm  |   |  |  |

<sup>1</sup> Graduate Student Award Finalist

# Monday Morning, April 20, 2026

|  |   |  |
|--|---|--|
| <p><b>Topical Symposium on Sustainable Surface Engineering</b><br/> <b>Room Town &amp; Country B - Session TS1-1-MoM</b><br/> <b>Coatings for Batteries and Hydrogen Applications I</b><br/> <b>Moderators: Chen-Hao Wang</b>, National Taiwan University of Science and Technology, Taiwan,<br/> <b>Martin Welters</b>, KCS Europe GmbH, Germany,<br/> <b>Fan-Bean Wu</b>, National United University, Taiwan</p> |   |  |
| 10:00am  |   |  |
| 10:20am  |   |  |
| 10:40am  | <p><b>INVITED: TS1-1-MoM-3</b> Hydrogen Technology – Which Role Play Thin Films on the Performance and Sustainability?,<br/> <b>Christina Scheu</b>, Max-Planck-Institut for Sustainable Materials, Germany</p>   |  |
| 11:00am  |   |  |
| 11:20am  | <p><b>TS1-1-MoM-5</b> PVD-synthesized Nitrides as Hydrogen Barrier Coatings,<br/> <b>Phillip Rückeshäuser (Student)</b>, TU Wien, Austria; <b>Szilard Kolozsvari, Peter Polcik</b>, Plansee Composite Materials GmbH, Germany; <b>Timea Stelzig</b>, Oerlikon AM Europe GmbH, Germany; <b>Konrad Fadenberger</b>, Oerlikon Balzers Coating Germany GmbH, Germany; <b>Klaus Boebel</b>, Oerlikon Balzers, Liechtenstein; <b>Tomasz Wojcik, Helmut Riedl</b>, TU Wien, Austria</p>  |  |
| 11:40am  | <p><b>TS1-1-MoM-6</b> Low-Temperature Sintering of <math>\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}</math> (LLZO) Electrolyte Coatings by the Sol Impregnation Method for All Solid-State Lithium-Ion Batteries, <b>Yen-Yu Chen, Guang-Yi Yao, Shao-Chien Tai</b>, National Pingtung University of Science and Technology, Taiwan</p>   |  |
| 12:00pm  | <p><b>TS1-1-MoM-7 Graduate Student Award Finalist Talk: Nitride and Amorphous/Crystalline Multilayers as Hydrogen Permeation Barriers, <b>Balint Istvan Hajas (Student)</b></b><sup>1</sup>, TU Wien, Institute of Materials Science and Technology, Austria; <b>Vincenc Nemanič, Marko Žumer, Ardita Kurtishaj Hamzaj, Jožef Stefan Institute, Slovenia; Alexander Kirnbauer, Tomasz Wojcik</b>, TU Wien, Institute of Materials Science and Technology, Austria; <b>Szilard Kolozsvari</b>, Plansee Composite Materials GmbH, Germany; <b>Paul Heinz Mayrhofer</b>, TU Wien, Institute of Materials Science and Technology, Austria</p> |  |

<sup>1</sup> Graduate Student Award Finalist

# Monday Afternoon, April 20, 2026

**Keynote Lectures**

**Room Town & Country A - Session KYL1-MoKYL**

**Keynote Lecture I**

**Moderator:**

**Sandra E. Rodil**, Universidad Nacional Autónoma de México

1:00pm

**INVITED: KYL1-MoKYL-1** HiPIMS with Cathode Reversal -- Physics and Applications,  
**David N. Ruzic**, *Tag Choi*, *Nicholas Connolly*, University of Illinois at Urbana-Champaign, USA

1:20pm

# Monday Afternoon, April 20, 2026

| <b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b><br><b>Room Town &amp; Country D - Session CM3-1-MoA</b><br><b>Data-Driven Thin Film Design: High-Throughput Experimentation, Simulation, and Machine Learning I</b><br><b>Moderators: Kevin Kaufmann, Oerlikon, USA,</b><br><b>Po-Liang Liu, National Chung Hsing Univ., Taiwan,</b><br><b>Sebastian Siol, Empa, Switzerland</b> |   | <b>Functional Thin Films and Surfaces</b><br><b>Room Palm 5-6 - Session MB2-1-MoA</b><br><b>Thin Films for Emerging Electronic and Quantum Photonic Devices I</b><br><b>Moderators:</b><br><b>Shirly Espinoza, ELI Beamlines, ELI ERIC, Czechia,</b><br><b>Jaroslav Vlcek, University of West Bohemia, Czechia</b>  |  |
|---|---|---|--|
| 1:40pm  | <b>INVITED: CM3-1-MoA-1</b> Predicting Outcomes of Thin-Film Synthesis from First Principles,<br><i>Vladan Stevanovic</i> , Colorado School of Mines, USA   | <b>INVITED: MB2-1-MoA-1</b> AlScN Thin Films and Heterostructures for High Temperature Non-volatile Memory,<br><i>Nicholas Glavin</i> , Air Force Research Laboratory, Materials and Manufacturing Directorate, USA   |  |
| 2:00pm  |   | <b>MB2-1-MoA-2</b> Optical and Electrical Properties of Nitrogen-doped p-type Cu <sub>2</sub> O Thin Films Prepared by Reactive HiPIMS, <i>Jan Koloros (Student)</i> , <i>Jiří Rezek, Pavel Baroch</i> , University of West Bohemia in Pilsen, Czechia  |  |
| 2:20pm  | <b>CM3-1-MoA-3</b> A Refined Toolbox for Predicting Phase Formation in PVD Thin Films, <i>Christian Gutschka (Student)</i> , TU Wien, Austria; <i>David Holec</i> , Montanuniversität Leoben, Austria; <i>Jochen Schneider</i> , RWTH Aachen University, Germany; <i>Helmut Riedl-Tragenreif</i> , TU Wien, Austria | <b>INVITED: MB2-1-MoA-3</b> Fabrication and Manipulation of Weakly-Interacting Interfaces for Optoelectronic Applications,<br><i>Kostas Sarakinos</i> , University of Helsinki, Finland   |  |
| 2:40pm  | <b>INVITED: CM3-1-MoA-4 Bill Sproul Awardee Honorary ICMCTF Lecture:</b> Pathways for the Preparation of Functional Coatings by Multiscale Modelling,<br><i>Jiri Houska<sup>1</sup></i> , University of West Bohemia, Czechia   |   |  |
| 3:00pm  |   | <b>MB2-1-MoA-5</b> Investigation of High-temperature Morphology and Electrical Performance of YZr-alloyed Amorphous Al <sub>2</sub> O <sub>3</sub> Thin Films,<br><i>Norma Salvadores Farran (Student)</i> , <i>Florentine Scholz, Tomasz Wojcik</i> , TU Wien, Austria; <i>Astrid Gies, Jürgen Ramm, Klaus Böbel</i> , Oerlikon Balzers, Liechtenstein; <i>Szilard Kolozsvári, Peter Polčík</i> , Plansee Composite Materials, Austria; <i>Tobias Huber, Jürgen Fleig, Helmut Riedl</i> , TU Wien, Austria |  |
| 3:20pm  | <b>INVITED: CM3-1-MoA-6</b> HADB Database: From Data Generation to AI-Supported Predictions of Properties of Hard-Coating Alloys,<br><i>Igor Abrikosov, Sheuly Ghosh, Lalith Kumar Gurram, Jonatan Wästlund, Davide Sangiovanni, Ferenc Tashádi</i> , Linköping University, IFM, Sweden                             |   |  |
| 3:40pm  | <b>BREAK</b>  | <b>BREAK</b>  |  |
| 4:00pm  | <b>INVITED: CM3-1-MoA-8</b> The Intersection of Energy, Entropy, and Exploration: Data-Driven Discovery of High-Entropy Materials,<br><i>Corey Oses</i> , Johns Hopkins University, USA   | <b>INVITED: MB2-1-MoA-8</b> Ion-Beam Assisted Deposition of P-Type Oxide Semiconductor Thin Films in Room Temperature,<br><i>Tsung-Yu Huang</i> , Ming Chi University of Technology, Taiwan   |  |
| 4:20pm  |   |   |  |
| 4:40pm  | <b>INVITED: CM3-1-MoA-10</b> Optimal Catalysts for Methane Pyrolysis by Atomistic Modelling of Molecule-Surface Interactions,<br><i>David Holec, Martin Matas</i> , Montanuniversität Leoben, Austria   | <b>MB2-1-MoA-10</b> Influence of Bonding Temperature on Electromigration Suppression in Cu-Doped Ag Bumps, <i>Chien-Cheng Chiang (Student)</i> , <i>Peng-Hsiang Hsu, Fan-Yi Ouyang</i> , National Tsing Hua University, Taiwan  |  |
| 5:00pm  |   | <b>INVITED: MB2-1-MoA-11</b> Piezoelectric MEMS – from Advanced Material Systems to Novel Device Architectures,<br><i>Ulrich Schmid, Daniel Platz, Michael Schneider</i> , TU Wien, Austria   |  |
| 5:20pm  | <b>CM3-1-MoA-12</b> Multiscale Simulations from Precursors and Surface Chemistry to Thin Film Properties, <i>Fedor Goumans, Nestor Aguirre, Nicolas Onofrio</i> , Software for Chemistry & Materials, Netherlands   |   |  |

<sup>1</sup> Bill Sproul Awardee Honorary ICMCTF Lecture

# Monday Afternoon, April 20, 2026

|        | <b>Plasma and Vapor Deposition Processes</b><br><b>Room Town &amp; Country A - Session PP1-2-MoA</b><br><b>PVD Coatings and Technologies II</b><br><b>Moderators:</b><br><b>Yen-Yu Chen</b> , National Pingtung University of Science and Technology, Taiwan,<br><b>Christian Kalscheuer</b> , IOT, RWTH Aachen, Germany   | <b>Protective and High-temperature Coatings</b><br><b>Room Palm 3-4 - Session MA1-2-MoA</b><br><b>Coatings for High Temperatures and Harsh Environment Applications II</b><br><b>Moderators: Vladislav Kolarik</b> , Fraunhofer Institute for Chemical Technology ICT, Germany,<br><b>Fernando Pedraza</b> , La Rochelle Univ., Laboratory LaSIE, France  |
|--------|--|---|
| 1:40pm | <b>PP1-2-MoA-1</b> Spot Stabilization and Thin Film Synthesis Using an Industrial-Sized DC Vacuum Arc Source with Magnetic Steering and Zr-Cu/Zr-Ni Cathodes, <b>Igor Zhirkov</b> , <b>Andrejs Petruhins</b> , Linköping University, Sweden; <b>Philipp Immich</b> , IHI Hauzer Techno Coating B.V., Netherlands; <b>Szilard Kolozsvari</b> , <b>Peter Polcik</b> , PLANSEE Composite Materials GmbH, Germany; <b>Johanna Rosen</b> , Linköping University, Sweden   | <b>MA1-2-MoA-1</b> Synergistic Effects of Ta and Si Alloying on the Longterm Oxidation and Hot Corrosion Resistance of Ti-Al-N Coatings, <b>Anna Hirle (Student)</b> , <b>Rainer Hahn</b> , <b>Oliver E. Hudak</b> , <b>Philip Kutrowatz</b> , <b>Tomasz Wojcik</b> , Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Vienna, Austria; <b>Szilard Kolozsvári</b> , <b>Peter Polcik</b> , Plansee Composite Materials GmbH, Lechbruck am See, Germany; <b>Anders.O Eriksson</b> , <b>Carmen Jerg</b> , <b>Klaus Boebel</b> , Oerlikon Balzers, Oerlikon Surface Solutions AG, Balzers, Liechtenstein; <b>Helmut Riedl</b> , Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Vienna, Austria; Institute of Materials Science and Technology, TU Wien, Vienna, Austria |
| 2:00pm | <b>PP1-2-MoA-2</b> Relationship Between Substrate Bias and Hydrogen Barrier Behavior of Pulsed DC ZrN Thin Films on Zircaloy-4 Deposited by RF Magnetron Sputtering, <b>Cheng-Han Wu</b> , <b>Kuan-Che Lan</b> , National Tsing Hua University, Taiwan   | <b>MA1-2-MoA-2</b> Fabrication, Characterisation and Tribological Testing of Magnetron Sputtered Cr Coated Zr Alloy Cladding for Enhanced Accident Tolerance in Light Water Reactors, <b>Thais Netto</b> , Manchester Metropolitan University, Brazil; <b>Adele Evans</b> , Manchester Metropolitan University, UK; <b>David Goddard</b> , <b>Jack Cooper</b> , United Kingdom National Nuclear Laboratory, UK; <b>Peter Kelly</b> , Manchester Metropolitan University, UK   |
| 2:20pm | <b>PP1-2-MoA-3</b> Spherical Tungsten Coating as Inertial Fusion Targets, <b>Ali Basaran</b> , <b>Priya Raman</b> , <b>Pavel Lapa</b> , <b>Ruben Santana</b> , <b>Hongwei Xu</b> , <b>Wendi Sweet</b> , <b>Fred Elsner</b> , <b>carlos monton</b> , General Atomics, USA; <b>Sasikumar Palaniyappan</b> , <b>Eric Loomis</b> , Los Alamos National Laboratory, USA   | <b>INVITED: MA1-2-MoA-3</b> Second Phase-Driven Surface Engineering Strategies for Corrosion and Oxidation Protection of Mg-8Al-4Ca Alloy, <b>Yueh-Lien Lee</b> , National Taiwan University, Taiwan  |
| 2:40pm | <b>PP1-2-MoA-4</b> Structural Transformation and Electrical Transport in Magnetron-Sputtered Pr-Ni-CoThin Films, <b>Bisheswor Acharya (Student)</b> , <b>You Qiang</b> , <b>Xavier Naranjo</b> , University of Idaho, USA; <b>Wenjuan Bian</b> , <b>Haixia Li</b> , Idaho National Laboratory, USA; <b>Hanping Ding</b> , The University of Oklahoma, USA; <b>Thomas Williams</b> , University of Idaho, USA   |   |
| 3:00pm | <b>INVITED: PP1-2-MoA-5</b> From Anode-Assisted Magnetron Sputtering to Newer Developments Such as Inverted Fireball-Assisted Magnetron Sputtering, <b>Martin Fenker</b> , fem Research Institute, Germany   | <b>MA1-2-MoA-5</b> Development of High-Temperature Ceramic Bond Coats for Environmental Barrier Coatings, <b>Rebekah Webster</b> , <b>Benjamin Kowalski</b> , <b>Bryan Harder</b> , NASA Glenn Research Center, USA   |
| 3:20pm |  | <b>MA1-2-MoA-6</b> Statistical Correlation between Microstructural Features and Process Forces in Conventional and Ultrasonic-Assisted Milling of Plasma Claddings, <b>Kai Treutler</b> , TU Clausthal, Germany; <b>Dirk Schröpfer</b> , Bundesanstalt für Materialforschung und -prüfung, Germany; <b>Maraïke Willeke</b> , TU Clausthal, Germany; <b>Thomas Kannengießer</b> , Bundesanstalt für Materialforschung und -prüfung, Germany; <b>Volker Wesling</b> , TU Clausthal, Germany   |
| 3:40pm | <b>BREAK</b>   | <b>BREAK</b>  |
| 4:00pm | <b>INVITED: PP1-2-MoA-8</b> Particle, Momentum and Energy Fluxes in PVD Processes - Probe Diagnostics Are Still in Vogue?," <b>Holger Kersten</b> , Kiel University, Germany   | <b>MA1-2-MoA-8</b> Oxidation Resistance of Binary and Ternary Nitrides Obtained by Magnetron Sputtering, <b>Ludovic Mereaux (Student)</b> , IRCER, France; <b>Edern Menou</b> , <b>Thomas Vaubois</b> , Safran, France; <b>Cédric Jaoul</b> , IRCER, France; <b>Marjorie Cavarroc</b> , Safran, France  |
| 4:20pm |  | <b>MA1-2-MoA-9</b> Adaptive Opto-Neuromorphic Device Based on Monolayer MoS <sub>2</sub> for Extreme-Temperature Cognitive Operations, <b>Pukhraj Prajapat (Student)</b> , <b>Govind Gupta</b> , National Physical Laboratory, India  |
| 4:40pm | <b>PP1-2-MoA-10</b> High Fidelity Discrete Element Modelling of Particles in Motion for PVD Coating Optimization, <b>Faranak Tayefi Ardebili</b> , University of Namur, Namur Institute of Structured Matter (NISM), Namur, Belgium, USA; <b>Jerome Muller</b> , <b>pavel Moskovkin</b> , <b>Cedric Vandenabeele</b> , <b>stephane Lucas</b> , University of Namur, Namur Institute of Structured Matter (NISM), Namur, Belgium  | <b>MA1-2-MoA-10</b> Reactive Sputtering of CrMoNbWxTiCy Carbide Films by High Power Impulse Magnetron Sputtering System: Effect of W and Carbon Contents, <b>ChunHao Cheng (Student)</b> , <b>Yung-Chin Yang</b> , National Taipei University of Technology, Taiwan; <b>Jyh-Wei Lee</b> , Ming Chi University of Technology, Taiwan; <b>Bih-Show Lou</b> , Chang Gung University, Taiwan; <b>Chia-Lin Li</b> , Ming Chi University of Technology, Taiwan  |
| 5:00pm | <b>PP1-2-MoA-11</b> Investigation on Surface Properties Evolution during PVD Duplex Coating Production Steps for H13 Hot Work Steel, <b>João Vitor Piovesan Dalla Nora</b> , Federal University of Rio Grande do Sul, Brazil; <b>Felipe Canal</b> , Universidade Federal do Rio Grande do Sul, Brazil; <b>Leandro Bettoni Ortega</b> , Oerlikon Balzers, USA; <b>Steffen Aichholz</b> , <b>Rafael Lopes da Silva</b> , Oerlikon Balzers, Brazil; <b>Alexandre Da Silva Rocha</b> , Universidade Federal do Rio Grande do Sul, Brazil | <b>INVITED: MA1-2-MoA-11</b> Materials for Aerospace Extreme Environments, <b>Samir M. Aouadi</b> , University of North Texas, USA  |
| 5:20pm |  |   |

# Monday Afternoon, April 20, 2026

| <b>Protective and High-temperature Coatings</b><br><b>Room Town &amp; Country C - Session MA4-1-MoA</b><br><b>Boron-containing Coatings I</b><br><b>Moderator:</b><br><b>Martin Dahlqvist</b> , Linköping University, Sweden |   | <b>Topical Symposium on Sustainable Surface Engineering</b><br><b>Room Town &amp; Country B - Session TS1-2-MoA</b><br><b>Coatings for Batteries and Hydrogen Applications II</b><br><b>Moderators: Chen-Hao Wang</b> , National Taiwan University of Science and Technology, Taiwan,<br><b>Martin Welters</b> , KCS Europe GmbH, Germany,<br><b>Fan-Bean Wu</b> , National United University, Taiwan  |  |
|--|---|--|--|
| 1:40pm   |   |  |  |
| 2:00pm   |   |  |  |
| 2:20pm   |   | <b>TS1-2-MoA-3</b> Hydrogen-Induced Failure of High-Strength Austenitic Steel Under Wet Friction Conditions, <b>Damian Batory</b> , Lodz University of Technology, Poland; <b>Pedro Avila</b> , <b>Etienne Bousser</b> , <b>Thomas Chagnon</b> , <b>Ludvik Martinu</b> , <b>Jolanta Klemberg-Sapieha</b> , Polytechnique Montréal, Canada  |  |
| 2:40pm   | <b>INVITED: MA4-1-MoA-4</b> Charge Trapping Behavior in BN Films Fabricated by a Reactive Plasma-Assisted Coating Technique and Their Design Strategies, <b>Koji Eriguchi</b> , Kyoto University, Japan   | <b>INVITED: TS1-2-MoA-4</b> Advances in <i>Operando</i> and <i>In Situ</i> Cross-sectional Characterization of Thin Films for Battery and Hydrogen Applications, <b>Juraj Tadt</b> , Montanuniversität Leoben, Austria; <b>Francois Lienard</b> , <b>Manfred Burghammer</b> , ESRF, Grenoble, France; <b>Tobias Huber</b> , Huber Scientific, Austria; <b>Henrik Bratlie</b> , <b>Daniel Rettenwander</b> , Norwegian University of Science and Technology (NTNU), Norway; <b>Rostislav Daniel</b> , <b>Markus Alfreider</b> , <b>Michael Tkadletz</b> , <b>Jozef Keckes</b> , Montanuniversität Leoben, Austria |  |
| 3:00pm   |   |  |  |
| 3:20pm   | <b>MA4-1-MoA-6</b> Development of TiB <sub>2</sub> :h-BN:a-C Based Nanocomposite Coatings with Enhanced Wear and Corrosion Resistance for Turbojet and Gas Turbine Components, <b>Gokhan Gulten</b> , <b>Banu Yaylali</b> , <b>Mustafa Yesilyurt</b> , <b>Ali Emre</b> , <b>Yasar Totik</b> , Atatürk University, Turkey; <b>Justyna Kulczyk-Malecka</b> , <b>Peter Kelly</b> , Manchester Metropolitan University, UK; <b>Ihsan Efeoglu</b> , Atatürk University, Turkey | <b>TS1-2-MoA-6</b> Atomic Layer Deposition for Enhancing Durability of Fuel Cell Catalysts, <b>Shao-Chuan Chang</b> , <b>Chih-Liang Wang</b> , Department of Materials Science and Engineering, National Tsing Hua University, Taiwan  |  |
| 3:40pm   | <b>BREAK</b>  | <b>BREAK</b>   |  |
| 4:00pm   | <b>INVITED: MA4-1-MoA-8</b> Energy Efficiency in Pulsed-DC Powder-Pack Boriding: A Sustainable Approach to Surface Hardening of Metallic Materials, <b>Ivan E Campos Silva</b> , Instituto Politecnico Nacional, Mexico   | <b>TS1-2-MoA-8</b> Electrocatalytic Performance Analysis of FeNi <sub>x</sub> MoWCu High Entropy Alloy Thin Films: Effects of Ni Content, <b>Yen-Chin Lai (Student)</b> , <b>Po-Chun Chen</b> , National Taipei University of Technology, Taiwan; <b>Bih-Show Lou</b> , Chang Gung University, Taiwan; <b>Jyh-Wei Lee</b> , Ming Chi University of Technology, Taiwan  |  |
| 4:20pm   |   | <b>TS1-2-MoA-9</b> Development of FeNiMoWCuN and FeNiMoWCu High Entropy Alloy Thin Film as Efficient Electrocatalysts for Water-splitting Applications, <b>TAI Kao Cheng (Student)</b> , <b>Lee Jyh-Wei</b> , Ming Chi University of Technology, Taiwan; <b>Lou Bih-Show</b> , Chang Gung University, Taoyuan, Taiwan; <b>Li Chia-Lin</b> , Ming Chi University of Technology, Taiwan  |  |
| 4:40pm   | <b>INVITED: MA4-1-MoA-10</b> Investigation of Technologically Driven Compositional and Structural Changes, Mechanical Properties, and Alloying of Transition Metal Diboride Thin Films, <b>Viktor Sroba</b> , Linköping University, Sweden, Slovakia  | <b>INVITED: TS1-2-MoA-10</b> High-Entropy Oxide Thin Films for Sustainable Battery Applications, <b>Pavel Soucek</b> , <b>Tatiana Pitonakova</b> , <b>Tomas Rada</b> , Masaryk University, Czechia; <b>Tomas Kazda</b> , <b>Antonin Simek</b> , Brno University of Technology, Czechia; <b>Petr Vasina</b> , Masaryk University, Czechia   |  |
| 5:00pm   |   |  |  |
| 5:20pm   |   |  |  |

# Tuesday Morning, April 21, 2026

|   |   |  |  |
|---|---|--|--|
| <p><b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b><br/> <b>Room Palm 1-2 - Session CM1-1-TuM</b><br/> <b>Spatially-resolved and in situ Characterization of Thin Films, Coating and Engineered Surfaces I</b><br/> <b>Moderators: Damien Faurie</b>, Univ. Sorbonne Paris Nord, France,<br/> <b>Naureen Ghafoor</b>, Linköping University, Sweden,<br/> <b>Aparna Saksena</b>, Max Planck Institute for Sustainable Materials, Germany</p> |   | <p><b>Functional Thin Films and Surfaces</b><br/> <b>Room Palm 5-6 - Session MB2-2-TuM</b><br/> <b>Thin Films for Emerging Electronic and Quantum Photonic Devices II</b><br/> <b>Moderators:</b><br/> <b>Ufuk Kilic</b>, University of Nebraska - Lincoln, USA,<br/> <b>Ulrich Schmid</b>, TU Wien, Austria</p>   |  |
| 8:00am  | <p><b>INVITED: CM1-1-TuM-1</b> <i>Accelerated Atomic-Scale Exploration of Phase Evolution in Compositionally Complex Solid Solution Using Combinatorial Processing Platforms (CPP)</i>,<br/> <b>Yujiao Li</b>, Ruhr University Bochum, Germany</p>  | <p><b>INVITED: MB2-2-TuM-1</b> Polyoxometalate Thin Film Heterostructures and Blends with Neuromorphic Computing Capabilities,<br/> <b>Dimitra Georgiadou</b>, University of Southampton, UK</p>   |  |
| 8:20am  |   |  |  |
| 8:40am  | <p><b>CM1-1-TuM-3</b> Advanced Thin Film Characterization Through the Combination of New GD-OES System and Raman Analysis, <b>Kayvon Savadkouei</b>, Horiba, USA; <b>Suyeon Lee, Patrick Chapon, Lionel Garrido</b>, Horiba Europe Research Center, France</p>  | <p><b>INVITED: MB2-2-TuM-3</b> Yttrium-Doped Aluminum Nitride Memristors to Enhance the Pattern Recognition Accuracy of Unsupervised Spiking Neural Network,<br/> <b>Jer-Chyi Wang</b>, Chang Gung University, Taiwan</p>  |  |
| 9:00am  | <p><b>INVITED: CM1-1-TuM-4</b> <i>In Situ</i> Micromechanical Characterization of Nanocrystalline Materials Coupled with X-Ray Nanodiffraction,<br/> <b>Michael Meindlumer, Juraj Todt</b>, Technical University of Leoben, Austria; <b>Manfred Burghammer, Martin Rosenthal, Asma A. Medjahed</b>, ESRF, Grenoble, France; <b>Noel Sheshi</b>, University of Udine, Italy; <b>Michal Zitek, Anton Hohenwarter</b>, Technical University of Leoben, Austria; <b>Enrico Salvati</b>, University of Udine, Italy; <b>Doris Steinmüller-Nethl</b>, CarbonCompetence GmbH, Austria; <b>Daniel Kiener, Jozef Keckes, Markus Alfreider</b>, Technical University of Leoben, Austria</p> |  |  |
| 9:20am  |   | <p><b>MB2-2-TuM-5</b> Impact of Interlayers on the Electrical and Microstructural Stability of Cu Films Deposited on SiC Substrates, <b>Jui-Wei Hsu (Student)</b>, College of Semiconductor Research, National Tsing Hua University, Hsinchu, Taiwan; <b>Fan-Yi Ouyang</b>, Department of Engineering and System Science, National Tsing Hua University, Hsinchu, Taiwan</p> |  |
| 9:40am  |   | <p><b>INVITED: MB2-2-TuM-6</b> Ternary-Blending Energetics and 3d Packing in Thin Films Enable Ultralow-Noise Nir Opds and Thermally Durable All-Polymer Opvs, <b>Chih-Ping Chen</b>, Ming Chi University of Technology, Taiwan</p>  |  |
| 10:00am   |   |  |  |
| 10:20am   | <p><b>INVITED: CM1-1-TuM-8</b> Advanced Nanoscale 3D Tomography (APT) for Corrosion Barrier Healing in Steels,<br/> <b>Robert Ulfig</b>, CAMECA Instruments Inc., USA</p>   |  |  |
| 10:40am   |   |  |  |

# Tuesday Morning, April 21, 2026

| <b>Protective and High-temperature Coatings</b><br><b>Room Palm 3-4 - Session MA3-1-TuM</b><br><b>High Entropy and Other Multi-principal-element Materials I</b><br><b>Moderators: Frederic Sanchette</b> , Université de Technologie de Troyes, France, <b>Frédéric Schuster</b> , CEA, France |  | <b>Protective and High-temperature Coatings</b><br><b>Room Town &amp; Country D - Session MA4-2-TuM</b><br><b>Boron-containing Coatings II</b><br><b>Moderators:</b><br><b>Martin Dahlqvist</b> , Linköping University, Sweden,<br><b>Anna Hirle</b> , TU Wien, Austria   |  |
|---|--|---|--|
| 8:00am  | <b>MA3-1-TuM-1</b> A Combinatorial Approach to Develop Sputter-Deposited Lanthanide-Containing High Entropy Alloys for ICF Applications, <b>Daniel Goodelman</b> , Lawrence Livermore National Laboratory, USA; <b>Minsuk Seo</b> , Lawrence Livermore National Laboratory, Republic of Korea; <b>Gregory Taylor</b> , <b>Alison Engwall-Holmes</b> , <b>Swanee Shin</b> , <b>David Strozzi</b> , <b>Brandon Bocklund</b> , <b>John Chesser</b> , <b>Jimmy Aut</b> , <b>Sergei Kucheyev</b> , <b>Leonardus Bimo Bayu Aji</b> , Lawrence Livermore National Laboratory, USA | <b>MA4-2-TuM-1</b> Tuning Structure and Mechanical Properties of TaB <sub>x</sub> Films using HiPIMS, <b>Kateryna Smyrnova</b> , <b>Tomáš Roch</b> , <b>Martin Truchlý</b> , CENAM FMPI, Comenius University in Bratislava, Slovakia; <b>Peter Švec</b> , Institute of Physics, SAS, Slovakia; <b>Rainer Hahn</b> , <b>Helmut Riedl</b> , TU Wien, Austria; <b>Leonid Satrapinskyy</b> , CENAM FMPI, Comenius University in Bratislava, Slovakia; <b>Viktor Šroba</b> , Linköping University, Sweden; <b>Marián Mikula</b> , CENAM FMPI, Comenius University in Bratislava, Slovakia  |  |
| 8:20am  | <b>MA3-1-TuM-2</b> Lanthanide- and Actinide-Containing High-Entropy-Alloy Coatings for Inertial Confinement Fusion Hohlraums, <b>Leonardus Bimo Bayu Aji</b> , Lawrence Livermore National Laboratory, USA   | <b>MA4-2-TuM-2</b> Solid Self-Lubrication Mechanism of B <sub>2</sub> O <sub>3</sub> in Boride Based Thin Film Materials Under Various Atmospheres, <b>Daniel Pözlberger (Student)</b> , Institute of Materials Science and Technology, TU Wien, Austria; <b>Norma Salvadores Farran</b> , <b>Tomasz Wojcik</b> , <b>Philip Kutrowatz</b> , <b>Rainer Hahn</b> , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria; <b>Eleni Ntemou</b> , <b>Daniel Primetzhofer</b> , Department of Physics and Astronomy, Uppsala University, Sweden; <b>Carsten Gachot</b> , Institute of Engineering Design and Product Development, Research Unit Tribology, TU Wien, Austria; <b>Helmut Riedl</b> , Institute of Materials Science and Technology, TU Wien, Austria |  |
| 8:40am  | <b>INVITED: MA3-1-TuM-3</b> Machine Learning Assisted Design of Complex and High Entropy Alloys by Hybrid Hipims/Pulsed Dc Pvd Process for Low Carbon Energy Applications in Extreme Environments, <b>Paul Faulquier</b> , CEA-INSTN, France; <b>Frédéric Schuster</b> , <b>Ryma Haddad</b> , <b>Fanny Balbaud-Célériér</b> , CEA, France; <b>Jean-Philippe Poli</b> , CEA List, France; <b>Eric Monsifrot</b> , AZ Concept, France  | <b>MA4-2-TuM-3</b> Super-Ordered MAB Phases: Theoretical Design of Novel Boron-Containing Materials with Simultaneous in-Plane and Out-of-Plane Chemical Ordering, <b>Martin Dahlqvist</b> , <b>Johanna Rosen</b> , Materials Design Division, Linköping University, Sweden   |  |
| 9:00am  |  |   |  |
| 9:20am  | <b>MA3-1-TuM-5</b> EELS study of Fe–Co–Ni Phosphides electrocatalysts for Hydrogen Evolution Reaction, <b>Chun-Te Chiang (Student)</b> , Southern Taiwan University of Science and Technology, Taiwan; <b>Yu-Min Shen</b> , National Dong Hwa University (NDHU), Taiwan; <b>Yu-Tsung Lin</b> , <b>Jow-Lay Huang</b> , National Cheng Kung University (NCKU), Taiwan; <b>Sheng-Chang Wang</b> , Southern Taiwan University of Science and Technology, Taiwan  |   |  |
| 9:40am  | <b>MA3-1-TuM-6</b> Solid-State Synthesis and In-Situ XRD Analysis of Titanium-Based Composite Oxides for Lithium-Ion Battery Anodes and Application, <b>Guan-Hong Lin (Student)</b> , <b>Hsing-I Hsiang</b> , National Cheng Kung University (NCKU), Taiwan; <b>Yu-Min Shen</b> , National Dong Hwa University (NDHU), Taiwan  |   |  |
| 10:00am   |  |   |  |
| 10:20am   |  |   |  |
| 10:40am   |  |   |  |

# Tuesday Morning, April 21, 2026

|         |   |  |
|---------|---|--|
|         | <p><b>Surface Engineering of Biomaterials, Devices and Regenerative Materials: Health, Food, and Agriculture Applications</b><br/> <b>Room Town &amp; Country B - Session MD1-2-TuM</b><br/> <b>Coatings and Surfaces for Medical Devices: Mechanical, Corrosion, Tribocorrosion, and Surface Processing II</b><br/> <b>Moderators: Po-Chun Chen</b>, National Taipei University of Technology, Taiwan,<br/> <b>Jean Geringer</b>, Ecole Nationale Supérieure des Mines, France</p> | <p><b>Tribology and Mechanics of Coatings and Surfaces</b><br/> <b>Room Town &amp; Country C - Session MC3-1-TuM</b><br/> <b>Tribology of Coatings and Surfaces for Industrial Applications I</b><br/> <b>Moderators:</b><br/> <b>Osman Eryilmaz</b>, Argonne National Laboratory</p>  |
| 8:00am  | <p><b>INVITED: MD1-2-TuM-1</b> Metallic-Capped Nanoslit Structure Integrating with Microfluidic Devices for Biosensing Applications.,<br/> <i>Yu-Jui (Ray) Fan</i>, National Yang Ming Chiao Tung University (NYCU), Taiwan</p>   | <p><b>INVITED: MC3-1-TuM-1</b> Bridging Research and Industrial Application: Advanced Coatings and Surface Treatments for Tribological Challenges,<br/> <b>Andras Korenyi-Both</b>, Woodward Inc., USA</p>   |
| 8:20am  |   |  |
| 8:40am  | <p><b>INVITED: MD1-2-TuM-3</b> Plasma-Activated Chitosan-Hydrogel Coating Incorporating Natural Immunomodulatory Protein (GMI) for Enhanced Tissue Regeneration and Oral Cancer Inhibition, <i>Yu-Rou Lin, Meng Yun Wu, Sheng-Yen Lin, Ying-Sui Sun</i>, Taipei Medical University, Taiwan</p>  | <p><b>MC3-1-TuM-3</b> DLC-Based Coatings with Enhanced Cavitation Resistance for Automotive Applications, <i>Kenny Bislin</i>, Oerlikon Surface Solutions AG, Liechtenstein; <i>Martin Bohley</i>, Oerlikon Balzers Coating Germany GmbH, Germany; <i>Christian Fleischmann, Astrid Gies, Theresa Huben, Kaushik Hebbar Kannur, Felix Oelschlegel, Stefan Moser</i>, Oerlikon Surface Solution AG, Liechtenstein; <i>Timea Stelzig</i>, Oerlikon AM Europe GmbH, Germany</p> |
| 9:00am  |   |  |
| 9:20am  | <p><b>INVITED: MD1-2-TuM-5</b> Low Temperature Plasma Assisted Strategies to Surface Engineering of Biomaterial, <i>Claude Côté, Noureddine Oudini, Alexa Bagdasarian</i>, PLASMIONIQUE Inc., Canada; <i>Kambiz Chizari</i>, PLASMIONIQUE Inc, Canada; <i>Eduardo Loreto</i>, PLASMIONIQUE Inc, Canada; <i>Anita Sarkissian, Ryan Porter, Andranik Sarkissian</i>, PLASMIONIQUE Inc., Canada</p>  | <p><b>INVITED: MC3-1-TuM-4</b> Surface Technologies for Geothermal Energy Applications,<br/> <b>Oyelayo Ajayi</b>, Levent Eryilmaz, Aaron Greco, Argonne National Laboratory, USA</p>  |
| 9:40am  |   | <p><b>MC3-1-TuM-6</b> Tailoring Ice Adhesion Behavior of Erosion Resistant Coatings: Tuning Surface Chemistry and Physical Properties,<br/> <i>Olayinka Abegunde, Nathan Madden, Grant Crawford, Forest Thompson</i>, South Dakota School of Mines and Technology, USA; <i>Emily Asenath-Smith</i>, US Army Engineer Research and Development Center (ERDC) Cold Regions Research and Engineering Laboratory (CRREL), Hanover, NH 03755, USA</p>                             |
| 10:00am | <p><b>MD1-2-TuM-7</b> Superhydrophilic Metallic Coating: PVD Fabrication and Applications, <i>Sea-Fue Wang</i>, National Taipei University of Technology, Taiwan; <b>Jinn P. Chu</b>, National Taiwan University of Science and Technology, Taiwan</p>  | <p><b>INVITED: MC3-1-TuM-7</b> 2D MXene Coatings – Combining Macro-Scalesuperlubricity and Durability,<br/> <b>Andreas Rosenkranz</b>, University of Chile</p>   |
| 10:20am | <p><b>INVITED: MD1-2-TuM-8</b> Ti-Nb-Mo Alloy Coatings Sputter-Deposited on 316L for Biomedical Applications, <i>Katherine Martinez-Orozco, Bruno Aquino</i>, Federal University of Sao Carlos, Brazil; <i>Raira Apolinario, Haroldo Pinto</i>, University of Sao Paulo, Brazil; <i>Conrado Afonso, Pedro Nascente</i>, Federal University of Sao Carlos, Brazil</p>  |  |
| 10:40am |   | <p><b>MC3-1-TuM-9</b> Friction and wear of composite MXene/MoS<sub>2</sub> coating under low viscosity fuels under reciprocating sliding, <b>Ali Zayaan Macknojia (Student)</b>, <i>Mohammad Eskandari</i>, University of North Texas, USA; <i>Stephan Berkebile</i>, Army Research Laboratory, USA; <i>Andrey Voevodin, Samir Aouadi, Diana Berman</i>, University of North Texas, USA</p>  |

# Tuesday Morning, April 21, 2026

**Exhibitors Keynote Lecture**  
**Room Town & Country A - Session EX-TuM**  
**Exhibitors Keynote Lecture**  
**Moderator: Peter Kelly**, Manchester Metropolitan University, UK

11:00am

**INVITED: EX-TuM-1** Thin Film Tribological Coatings to Enhance the Durability of Engineered Bearings and Industrial Motion Components,  
**Ryan Evans**, The Timken Company, USA

11:20am

11:40am

# Tuesday Afternoon, April 21, 2026

|   |   |   |
|---|---|---|
| <p><b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b><br/> <b>Room Palm 1-2 - Session CM1-2-TuA</b><br/> <b>Spatially-resolved and in situ Characterization of Thin Films, Coating and Engineered Surfaces I</b><br/> <b>Moderators: Damien Faurie</b>, Univ. Sorbonne Paris Nord, France,<br/> <b>Naureen Ghafoor</b>, Linköping University, Sweden,<br/> <b>Aparna Saksena</b>, Max Planck Institute for Sustainable Materials, Germany</p> |   | <p><b>Protective and High-temperature Coatings</b><br/> <b>Room Town &amp; Country A - Session MA2-1-TuA</b><br/> <b>Hard and Nanostructured Coatings I</b><br/> <b>Moderators:</b><br/> <b>Stanislav Haviar</b>, University of West Bohemia, Czechia,<br/> <b>Kuan-Che Lan</b>, National Tsing Hua University, Taiwan,<br/> <b>Norma Salvadores Farran</b>, TU Wien, Austria</p>   |
| 1:40pm  |   | <p><b>MA2-1-TuA-1</b> The Fabrication, Microstructure, and Characterization of Functional Electroless Ni-P Composite Surface Coatings on Dried Luffa as Bio-Plate, <b>Tzu-Hsiu Hung (Student)</b>, <b>Kai-Tse Tsai</b>, <b>Fan-Bean Wu</b>, National United University, Taiwan</p>  |
| 2:00pm  | <p><b>CM1-2-TuA-2</b> Advancements in XPS Depth Profiling using Femtosecond Laser Ablation (fs-LA) for Thin Film and Metal Oxide Surfaces, <b>James Lallo</b>, Thermo Fisher Scientific, USA; <b>Tim Nunney</b>, <b>Robin Simposn</b>, Thermo Fisher Scientific, UK; <b>Mark Baker</b>, <b>Charlie Chandler</b>, University of Surrey, UK</p> | <p><b>MA2-1-TuA-2</b> Erosion-Corrosion Analysis of Cr<sub>2</sub>N/Ni<sub>3</sub>N Multi-Layer Coating System Deposited on Nickel Aluminium Bronze (Nab) Using the Dc Magnetron Sputtering, <b>Aakanksha Jain (Student)</b>, <b>Ramesh Chandra</b>, <b>Rahul S Mulik</b>, Indian Institute of Technology Roorkee, India</p>  |
| 2:20pm  | <p><b>INVITED: CM1-2-TuA-3</b> Sample Charging During X-Ray Photoelectron Spectroscopy Analyses of Thin Film Insulators: From Understanding to Solution, <b>Grzegorz (Greg) Greczynski</b>, Linköping University, Sweden</p>  | <p><b>MA2-1-TuA-3</b> Characteristics of TiBCN-based Thin Film with Different Mo Content by Direct Current Plasma Chemical Vapor Deposition, <b>Takeyasu Saito</b>, <b>Rizu Kuragi</b>, <b>Noki Okamoto</b>, Osaka Metropolitan University, Japan</p>   |
| 2:40pm  |   | <p><b>INVITED: MA2-1-TuA-4</b> CrAlN-based Protective Nanostructured Coatings: Process–Structure–Property Correlations and Performance in Energy-Related Applications, <b>Juan Carlos Sanchez-Lopez</b>, <b>Teresa Cristina Rojas</b>, Institute of Materials Science of Seville (ICMS), Spanish National Research Council (CSIC), Spain; <b>Ramón Escobar-Galindo</b>, Universidad de Sevilla (US), Spain; <b>Santiago Dominguez-Meister</b>, <b>Marta Brizuela</b>, TECNALIA, Basque Research and Technology Alliance (BRTA), Spain; <b>Sonia Mato</b>, <b>Francisco Javier Pérez</b>, Universidad Complutense de Madrid (UCM), Spain</p> |
| 3:00pm  | <p><b>INVITED: CM1-2-TuA-5</b> Automated XPS/XAS Multiplet Fitting for Reproducible Orbital Covalency Extraction in Transition-Metal Systems, <b>Mariela Bravo-Sanchez</b>, <b>Mario U. Delgado-Jaime</b>, <b>Tania E. Gonzalez-Robles</b>, Universidad de Guadalajara, Mexico</p>  |   |
| 3:20pm  | <p><b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b></p>  | <p><b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b></p>  |
| 3:40pm  |   |   |
| 4:00pm  | <p><b>CM1-2-TuA-8</b> Is Platinum a Proton-Blocking Catalyst?, <b>Aparna Saksena</b>, <b>Bingxin Li</b>, <b>Yujun Zhao</b>, <b>Manoj Prabhakar</b>, <b>Jörg Neugebauer</b>, <b>Mira Todorova</b>, <b>Dierk Raabe</b>, <b>Baptiste Gault</b>, <b>Yug Joshi</b>, Max-Planck-Institut für Sustainable Materials, Germany</p>                     | <p><b>MA2-1-TuA-8</b> Enhancement of Thermal Stability of Sputtered Nanotwinned Ag Thin Films by Cu Doping for Reliable Electronic Applications, <b>Jun-Hui Qiu (Student)</b>, Department of Engineering and System Science, National Tsing Hua University, Taiwan; <b>Yu-Lin Liao</b>, College of Semiconductor Research, National Tsing Hua University, Taiwan; <b>Fan-Yi Ouyang</b>, Department of Engineering and System Science, National Tsing Hua University, Taiwan</p>   |
| 4:20pm  | <p><b>CM1-2-TuA-9</b> Correlating Spectroscopic Ellipsometry Measurements in Imaging and Diffractive Modes, <b>Md Rashedul Huque</b>, <b>Yishu Foo</b>, <b>Kawshik Shikder</b>, <b>Yee Man Kwong</b>, <b>Zhang Yun</b>, <b>May Thawda Phoo</b>, <b>Juan Antonio Zapien</b>, City University of Hong Kong</p>                                  | <p><b>MA2-1-TuA-9</b> Backscattered Argon Neutrals: Hidden Architects of Hf–Al–N Nanostructure Evolution, <b>Naureen Ghafoor</b>, <b>Marcus Lorentzon</b>, Linköping Univ., IFM, Thin Film Physics Div., Sweden; <b>Rainer Hahn</b>, TU Wien, Austria; <b>Diederik Depla</b>, Ghent University, Belgium; <b>Justinas Palisaitis</b>, <b>Jens Birch</b>, Linköping Univ., IFM, Thin Film Physics Div., Sweden</p>  |
| 4:40pm  | <p><b>CM1-2-TuA-10</b> Machine Learning Assisted Structure-Property Relationships by Nanoindentation, <b>Ude Dirk Hangen</b>, Bruker Nano GmbH, Germany; <b>Eric Hintsala</b>, <b>Bernhard Becker</b>, <b>Benjamin Stadnick</b>, <b>Kevin Schmalbach</b>, <b>Douglas Stauffer</b>, Bruker, Inc., USA</p>                                      | <p><b>MA2-1-TuA-10</b> From Grain Refinement to Precipitation Hardening: Si-Driven Microstructural Control in (Al,Mo,Ta,V,W)C Coatings, <b>M.A. Altof</b>, <b>Balint Hajas</b>, TU Wien, Austria; <b>Szilard Kolozsvári</b>, Plansee Composite Materials GmbH, Germany; <b>Tomasz Wojcik</b>, <b>Alexander Kirnbauer</b>, <b>Paul Mayrhofer</b>, TU Wien, Austria</p>   |
| 5:00pm  |   | <p><b>MA2-1-TuA-11</b> Influence of Interlayers on Thermal Stability and Abnormal Grain Growth in Co-Sputtered Nanotwinned Cu–Ag Alloy Thin Films, <b>Ding-Peng Lin (Student)</b>, <b>Yu-Lin Liao</b>, <b>Fan-yi Ouyang</b>, National Tsing Hua University, Taiwan</p>  |

# Tuesday Afternoon, April 21, 2026

|   |   |   |  |
|---|---|---|--|
| <p><b>Protective and High-temperature Coatings</b><br/> <b>Room Palm 3-4 - Session MA3-2-TuA</b><br/> <b>High Entropy and Other Multi-principal-element Materials II</b><br/> <b>Moderators:</b><br/> <b>Alexander Kirnbauer</b>, TU Wien, Austria,<br/> <b>Pavel Soucek</b>, Masaryk University, Czechia</p> |   | <p><b>Surface Engineering of Biomaterials, Devices and Regenerative Materials: Health, Food, and Agriculture Applications</b><br/> <b>Room Town &amp; Country B - Session MD2-1-TuA</b><br/> <b>Coatings and Sensors for Health, Food and Agriculture: Antibacterial, Bioactive, and Flexible Interfaces I</b><br/> <b>Moderators: Diego Mantovani</b>, Université Laval, Canada,<br/> <b>Phaedra Silva-Bermudez</b>, Instituto Nacional de Rehabilitación Luis Guillermo Ibarra Ibarra, Mexico</p>   |  |
| 1:40pm  | <p><b>INVITED: MA3-2-TuA-1</b> On the Structure and Properties of Refractory-Metal-Based High-Entropy Metal-Sublattice Ceramics,<br/> <b>Alexander Kirnbauer</b>, TU Wien, Thin Film Materials Science Division, Austria</p>  | <p><b>INVITED: MD2-1-TuA-1</b> Deposition and Surface Characterization of Low-Pressure Plasma Ultra-Thin Coatings Designed for Biomedical Applications,<br/> <b>Laurent Houssiau</b>, University of Namur, Belgium</p>  |  |
| 2:00pm  |   |   |  |
| 2:20pm  | <p><b>MA3-2-TuA-3</b> Influence of Nitrogen Contents on the Microstructure, Mechanical, and Electrochemical Behaviors of AlCrNbSiTiMoNx high entropy alloy films deposited by HiPIMS, <b>CHANG-YI JIANG (Student)</b>, Department of Materials Engineering Ming Chi University of Technology, Taiwan; <b>Chia-Lin Li</b>, Center for Plasma and Thin Film Technologies, Taiwan; <b>Bih-Show Lou</b>, Chemistry Division, Center for General Education, Chang Gung University, Taiwan; <b>Jyh-Wei Lee</b>, Department of Materials Engineering Ming Chi University of Technology, Taiwan</p> | <p><b>MD2-1-TuA-3</b> Silver-Copper Nanocoating (Sakcu®) Deposited on Stainless Steel Brackets to Reduce Biofilm Formation of <i>Streptococcus Mutans</i> and Potentially Prevent Early Dental Caries, <b>Alejandra Cervantes-Ramírez (Student)</b>, <b>Lorena Reyes-Carmona</b>, <b>David Eduardo Martínez-Lara</b>, <b>Andrea Quiroz-Cervantes</b>, <b>Gina Prado-Prone</b>, <b>Sandra E. Rodil</b>, <b>Argelia Almaguer-Flores</b>, UNAM, Mexico</p>   |  |
| 2:40pm  | <p><b>MA3-2-TuA-4</b> Development of CrMoNbWTi and CrMoNbTiWC high entropy alloy films by HiPIMS: effect of Ti and C contents, <b>Han-Chieh Chen</b>, <b>Chia-Lin Li</b>, <b>Bih-Show Lou</b>, <b>Jyh-Wei Lee</b>, Ming Chi University of Technology, Taiwan</p>  | <p><b>INVITED: MD2-1-TuA-4</b> ZnO Nanowires: A Platform for Biosensing Applications, <b>Rafael Salinas</b>, <b>Shirley Martínez</b>, <b>Guillermo Santana Rodriguez</b>, <b>Carlos Ramos</b>, <b>Ateet Dutt</b>, UNAM, Mexico</p>  |  |
| 3:00pm  | <p><b>MA3-2-TuA-5</b> Synthesis and Characterization of Amorphous CrCuTaTiV High-Entropy Thin Films: The Role of Sputter Yield in Custom Target Design, <b>Uriel Cárdenas-Rojas</b>, <b>Sandra E. Rodil</b>, <b>Carlos Ramos-Vilchis</b>, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México</p>   |   |  |
| 3:20pm  | <p><b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b></p>  | <p><b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b></p>  |  |
| 3:40pm  |   |   |  |
| 4:00pm  | <p><b>MA3-2-TuA-8</b> Combinatorial Approach for the Synthesis of High-Entropy-Like Protective Nitride Coatings for Highly Aggressive Tribo-Corrosion Applications, <b>Etienne Bousser</b>, <b>Olayinka Abegunde</b>, <b>Fellipy S. Rocha</b>, <b>Pedro Avila</b>, <b>Ludvik Martinu</b>, <b>Jolanta Ewa Klemberg-Sapieha</b>, Polytechnique Montréal, Canada</p>   | <p><b>MD2-1-TuA-8</b> Graduate Student Award Finalist Talk: Photoresponsive Bilayer Coating Integrating Zinc and a Chitosan-Antibiotic Drug Delivery Film for on-Demand Antimicrobial Photodynamic Therapy in Biomedical Implants, <b>Samuel Santana Malheiros (Student)</b><sup>1</sup>, <b>Maria Helena Rossy Borges</b>, University of Campinas (UNICAMP), Brazil; <b>João Gabriel Silva Souza</b>, UnG, Brazil; <b>Elidiane Cipriano Rangel</b>, UNESP, Brazil; <b>Carlos Fortulan</b>, University of São Paulo, Brazil; <b>Nilson Cristino da Cruz</b>, UNESP, Brazil; <b>Eduardo Buozi Moffa</b>, University of Saskatchewan, Canada; <b>Bruna Egumi Nagay</b>, <b>Valentim Adelino Ricardo Barão</b>,</p>  |  |
| 4:20pm  |   | <p><b>MD2-1-TuA-9</b> Electrospun Nanocomposite Membranes for the Development of Osteoinductive Microambients, <b>Phaedra Silva-Bermudez</b>, <b>Julieta García-López</b>, Unidad de Ingeniería de Tejidos, Terapia Celular y Medicina Regenerativa; Instituto Nacional de Rehabilitación Luis Guillermo Ibarra Ibarra, Mexico; <b>Gina Prado-Prone</b>, Laboratorio de Biointerfases, DEPeI, Facultad de Odontología, Universidad Nacional Autónoma de México; <b>Montserrat Ramírez-Arellano</b>, <b>Gustavo E. Martínez-Murillo</b>, Unidad de Ingeniería de Tejidos, Terapia Celular y Medicina Regenerativa; Instituto Nacional de Rehabilitación Luis Guillermo Ibarra Ibarra, Mexico; <b>Lucía S. Flores-Hidalgo</b>, Posgrado en Ciencia e Ingeniería de Materiales, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México; <b>Sandra E. Rodil</b>, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México</p> |  |
| 4:40pm  |   |   |  |
| 5:00pm  |   |   |  |

<sup>1</sup> Graduate Student Award Finalist

# Tuesday Afternoon, April 21, 2026

| <b>Topical Symposium on Sustainable Surface Engineering</b><br><b>Room Town &amp; Country C - Session TS3-TuA</b><br><b>Circular Strategies for Surface Engineering</b><br><b>Moderators:</b><br><b>Marcus Hans</b> , RWTH Aachen University, Germany,<br><b>Arnaud Le Febvrier</b> , Uppsala University, Sweden |  | <b>Tribology and Mechanics of Coatings and Surfaces</b><br><b>Room Palm 5-6 - Session MC2-1-TuA</b><br><b>Mechanical Properties and Adhesion</b><br><b>Moderators:</b><br><b>Chia-Lin Li</b> , Ming Chi University of Technology, Taiwan,<br><b>Michael Meindlhumer</b> , Montanuniversität Leoben, Austria,<br><b>Balila Nagamani Jaya</b> , Indian Institute of Technology, India |  |
|--|--|---|--|
| 1:40pm   | <b>INVITED: TS3-TuA-1</b> Rethinking Resources: Circular Strategies in Target Material Production,<br><i>Lukas Zauner, Marie Friedl, Laszlo Sajti, Mariangela Fedel, Emanuel Feuerstein, Michael Kitzmantel, Erich Neubauer</i> , RHP Technology, Austria  | 1:40pm  | <b>INVITED: MC2-1-TuA-1</b> Mechanical and Interfacial Behavior of Liquid-Like Polymer Surfaces at Extremes,<br><i>Megan J. Cordill</i> , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria   |
| 2:00pm   |  | 2:00pm  |  |
| 2:20pm   | <b>TS3-TuA-3</b> Opportunities of Combinatorial Thin Film Materials Design for the Sustainable Development of Magnesium-Based Alloys, <i>Marcus Hans</i> , RWTH Aachen University, Germany; <i>Philipp Keuter</i> , GTT-Technologies, Germany; <i>Aparna Saksena</i> , Max Planck Institute for Sustainable Materials, Germany; <i>Janis Sälker, Markus Momma</i> , RWTH Aachen University, Germany; <i>Hauke Springer</i> , Universität Duisburg-Essen, Germany; <i>Jakub Nowak, Daniela Zander</i> , RWTH Aachen University, Germany; <i>Daniel Primetzhofer</i> , Uppsala University, Sweden; <i>Jochen Schneider</i> , RWTH Aachen University, Germany | 2:20pm  | <b>INVITED: MC2-1-TuA-3</b> In Situ Observation of Multicracking in Thin Films and Nanostructures,<br><i>Damien Faurie</i> , Université Sorbonne Paris Nord, France  |
| 2:40pm   | <b>INVITED: TS3-TuA-4</b> Life Cycle Analysis for Next Generation Sustainable Flexible Food Packaging Materials,<br><i>Glen West</i> , Manchester Metropolitan University, UK  | 2:40pm  |  |
| 3:00pm   |  | 3:00pm  | <b>MC2-1-TuA-5</b> Numerical and Experimental Evaluation of Cyclic Contact Loads on Titanium Borides, <i>Hugo Alberto Pérez Terán, GERMAN ANIBAL RODRIGUEZ CASTRO, ALFONSO MENESES AMADOR, Felipe Nava Leana (Student)</i> , Instituto Politécnico Nacional, Mexico; <i>Daybelis Fernández Valdés</i> , Tecnológico Nacional de México; <i>VICTOR MANUEL ARAUJO MONSALVO</i> , Instituto Nacional de Rehabilitación Luis Guillermo Ibarra Ibarra, Mexico       |
| 3:20pm   | <b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>  | 3:20pm  | <b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>  |
| 3:40pm   |  | 3:40pm  |  |
| 4:00pm   | <b>INVITED: TS3-TuA-8</b> Advanced Chemical and Environmental Design of Coatings: From TG-Mass Spectrometry Through Thermodynamic and Life Cycle Analysis Application, <i>Francisco Javier Perez Trujillo</i> , Calle Cantalejo 11, Spain  | 4:00pm  | <b>INVITED: MC2-1-TuA-8</b> Grain Boundaries and “Complexions” in Metallic Thin Films: New Insights on the Interplay of Atomic Structure, Chemistry and Material Properties, <i>Gerhard Dehm</i> , Max Planck Institute for Sustainable Materials, Germany   |
| 4:20pm   |  | 4:20pm  |  |
| 4:40pm   | <b>TS3-TuA-10</b> Reversible Solid Oxide Cells for Hydrogen Production and Storage Developed by Reactive Magnetron Co-Sputtering, <i>Justyna Kulczyk-Malecka, Kleitos Panagi, David Shaw, Peter Kelly</i> , Manchester Metropolitan University, UK   | 4:40pm  | <b>MC2-1-TuA-10</b> Many-to-one Mapping Between Stress-Strain Curves and Spherical Indentation Load-Displacement Curves, <i>Santosh Thapa (Student), Yang-Tse Cheng, Madhav Baral</i> , University of Kentucky, USA  |
| 5:00pm   |  | 5:00pm  | <b>MC2-1-TuA-11</b> Tribological Performance and Mechanistic Insights of Aluminium-Sic Composites Fabricated by Computerized Bottom-Pouring Stir Casting, <i>Vishal Mehta</i> , Automobile Engineering Department, Parul Institute of Technology, India; <i>Anand Joshi</i> , Micro Nano Research and Development Center, Parul University, India; <i>Unnati Joshi</i> , Mechanical Engineering Department, Parul Institute of Engineering & Technology, India |

# Wednesday Morning, April 22, 2026

|  |   |   |  |
|--|---|---|--|
| <p><b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b><br/> <b>Room Town &amp; Country C - Session CM3-2-WeM</b><br/> <b>Data-Driven Thin Film Design: High-Throughput Experimentation, Simulation, and Machine Learning II</b><br/> <b>Moderators: Andrea Giunto, LBL</b><br/> <b>David Holec, Montanuniversität Leoben, Austria</b></p> |   | <p><b>International Union for Vacuum Science, Technique, and Applications Special Session</b><br/> <b>Room Palm 5-6 - Session IUVSTA-WeM</b><br/> <b>IUVSTA Special Session</b><br/> <b>Moderator:</b><br/> <b>Ivan G. Petrov, University of Illinois at Urbana-Champaign</b></p> |  |
| 8:00am   |   | <p><b>INVITED: IUVSTA-WeM-1</b> The Enabling Power of Vacuum Science, IUVSTA and Field-Deployable Quantum-Based Innovations with the NIST-on-a-Chip Program, <b>Jay Hendricks</b>, NIST, USA</p>  |  |
| 8:20am   |   |   |  |
| 8:40am   | <p><b>CM3-2-WeM-3</b> Investigating growth twinning in NiCr and NiFe alloys by employing a combinatorial high throughput approach, <b>Ashley Maldonado Otero (Student)</b>, Anthony Botros, University of Southern California, USA; Yi Liu, University of California Irvine, USA; <b>Mohammad Hadi Yazdani</b>, Aoyan Liang, University of Southern California, USA; <b>Irene Beyerlein</b>, University of California Santa Barbara, USA; <b>Diana Farkas</b>, Virginia Tech, USA; <b>Paulo Branicio</b>, University of Southern California, USA; <b>Timothy Rupert</b>, Johns Hopkins University, USA; <b>Andrea Hodge</b>, University of Southern California, USA</p> | <p><b>INVITED: IUVSTA-WeM-3</b> Chalcogenide Ovonic Threshold Switch (OTS) and Selector-Only Memory (SOM) Devices for Neuromorphic Applications, <b>Jong-Souk Yeo</b>, Siwon Park, Young-Min Kim, Sangyeop Kim, Yonsei University, Republic of Korea</p>                          |  |
| 9:00am   | <p><b>CM3-2-WeM-4</b> High-Throughput Combinatorial Studies of Nanocrystalline Ni-Pt Thin Films, <b>Kyle Dorman</b>, Finley Haines, Heekwon Lee, Manish Jain, Tomas Babuska, Sadvikas Addamane, Christian Harris, Luis Jauregui, Ping Lu, Brad Boyce, John Curry, David Adams, Sandia National Lab, USA</p>   |   |  |
| 9:20am   | <p><b>INVITED: CM3-2-WeM-5</b> Experiment and Computation Meet in Mixed-Anion Thin Films, <b>Andrea Crovetto</b>, Technical University of Denmark</p>   | <p><b>INVITED: IUVSTA-WeM-5</b> Quantum Effects of Hydrogen in Metal Thin Films, <b>Katsuyuki Fukutani</b>, University of Tokyo, Japan</p>  |  |
| 9:40am   |   |   |  |
| 10:00am  | <b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>   | <b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>   |  |
| 10:20am  |   |   |  |
| 10:40am  |   |   |  |
| 11:00am  | <p><b>INVITED: CM3-2-WeM-10</b> Ion-Surface Interaction Models – Unraveling Microstructure Evolution in Oxides and Nitrides, <b>Denis Music</b>, Malmö University, Sweden</p>   | <p><b>INVITED: IUVSTA-WeM-10</b> Stable and Metastable High Entropy Alloys, <b>Sven Ulrich</b>, Dimitri Litvinov, Jarir Aktaa, Adam Bichler, Michael Stueber, Karlsruhe Institute of Technology (KIT), Institute for Applied Materials (IAM), Germany</p>                         |  |
| 11:20am  |   |   |  |
| 11:40am  | <p><b>CM3-2-WeM-12</b> Ai-Driven Prediction of Work Function Variations in ZnGa<sub>2</sub>O<sub>4</sub>(111) Under Multi-Gas Adsorption, <b>Chao-Chang Shen</b>, National Chung Hsing University, Taiwan; <b>Sheng-Fang Huang</b>, China University of Science and Technology, Taiwan; <b>Po-Liang Liu</b>, National Chung Hsing University, Taiwan</p>  |   |  |
| 12:00pm  | <p><b>CM3-2-WeM-13</b> Artificial Intelligence Framework for Understanding Defect-Mediated Transport in Se–Te–Pb Thin Films, <b>Maninder Kamboj</b>, Farah Mohammadi, Toronto Metropolitan University, Canada</p>   |   |  |

# Wednesday Morning, April 22, 2026

|         | <b>Plasma and Vapor Deposition Processes</b><br><b>Room Town &amp; Country B - Session PP2-1-WeM</b><br><b>HiPIMS, Pulsed Plasmas, and Energetic Deposition I</b><br><b>Moderators:</b><br><b>Arutian P. Ehasarian, Sheffield Hallam University, UK,</b><br><b>Tetsushide Shimizu, Tokyo Metropolitan University, Japan</b>  | <b>Protective and High-temperature Coatings</b><br><b>Room Town &amp; Country A - Session MA2-2-WeM</b><br><b>Hard and Nanostructured Coatings II</b><br><b>Moderators: Stanislav Haviar, Univ. of West Bohemia, Czechia,</b><br><b>Kuan-Che Lan, National Tsing Hua University, Taiwan,</b><br><b>Norma Salvadores Farran, TU Wien, Austria</b>   |
|---------|--|--|
| 8:00am  | <b>PP2-1-WeM-1</b> Alpha-alumina thin films at low temperature: how R-HiPIMS process parameters influence purity and crystallinity, <i>Célia Dieudonné (Student)</i> , ICMCB, France; <i>Marjorie Cavarroc-Weimer, Safran, France</i>  | <b>INVITED: MA2-2-WeM-1</b> Dual-Phase Crystalline-Amorphous Coatings Based on Thin-Film Metallic Glasses: Synthesis and Properties, <i>Petr Zeman</i> , University of West Bohemia, Czechia   |
| 8:20am  | <b>PP2-1-WeM-2</b> Influence of Pulse Parameters in Multi-Pulse Hipims on Reactive Mode Transition for VO <sub>2</sub> Thin Film Deposition, <i>Erdong Chen (Student)</i> , <i>Rina Watabe</i> , Tokyo Metropolitan University, Japan; <i>Stephanos Konstantinidis</i> , University of Mons, Belgium; <i>Daniel Lundin</i> , Linköping University, Sweden; <i>Tetsushide Shimizu</i> , Tokyo Metropolitan University, Japan  |  |
| 8:40am  | <b>INVITED: PP2-1-WeM-3</b> Bipolar HiPIMS Discharges: Principles, Diagnostics and Thin Film Deposition Strategies, <i>Jiří Čapek, Tomáš Kozák, Andrea Dagmar Pajdarová, Mina Farahani, Tomáš Tölg</i> , University of West Bohemia in Pilsen, Czechia   |  |
| 9:00am  |  | <b>MA2-2-WeM-4</b> Hardness and Fracture Toughness Enhancement in Non-Stoichiometric Diboride Superlattices, <i>Marek Vidiš, Tomáš Fiantok, Martin Truchlý, Vitalii Izai, Leonid Satrapinskyy, Tomáš Roch</i> , Comenius University Bratislava, Slovakia; <i>Rainer Hahn, Helmut Riedl</i> , TU Wien, Austria; <i>Peter Švec</i> , Slovak Academy of Sciences, Slovakia; <i>Viktor Šroba, Marián Mikula</i> , Comenius University Bratislava, Slovakia |
| 9:20am  | <b>PP2-1-WeM-5</b> Synthesis-Dependent Phase Evolution in the W-N System: A Case Study with HiPIMS and N <sup>+</sup> ion source, <i>Oleksandr Pshyk, Kerstin Thorwarth, Nathan Rodkey, Sebastian Siol</i> , Empa - Swiss Federal Laboratories for Materials Science and Technology, Switzerland   | <b>MA2-2-WeM-5</b> Effects of Nitrogen Flow Rate and Deposition Temperature on the Structure and Properties of VMoN Thin Films Deposited by High Power Impulse Magnetron Sputtering, <i>Jia-Hong Huang, Pei-Fen Peng</i> , National Tsing Hua University, Taiwan   |
| 9:40am  | <b>PP2-1-WeM-6</b> Development and Optimization of CrN and CrSiN Hipims Coatings for Enhanced Tool Performance in Cryogenic Machining of Ti6Al4V, <i>Gaya CHETTOUH (Student)</i> , University of Technology of Troyes (UTT), France; <i>Soufyane ACHACHE, Lamine GUEYE</i> , Université de Technologie de Troyes, France; <i>Yoann PINOT</i> , École Supérieure Nationale d'Arts et Métiers de Cluny, France; <i>Frederic SANCETTE, Mohamed EL GARAH</i> , Université de Technologie de Troyes, France; <i>Corinne NOUVEAU</i> , École Supérieure Nationale d'Arts et Métiers de Cluny, France | <b>MA2-2-WeM-6</b> Multi-Scale Investigation of Superior Mechanical Properties in Nitride Ceramics with Negative Stacking Fault Energy, <i>Yong Huang, Zhuo Chen, Zaoli Zhang</i> , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria   |
| 10:00am | <b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>  | <b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>  |
| 10:20am |  |  |
| 10:40am |  |  |
| 11:00am | <b>PP2-1-WeM-10</b> Nanopatterned Nanolayer TiN/NbN Coatings as Plasmonic and Wear Resistant Antimicrobial Materials, <i>Arutian P. EHASARIAN, Arunprabhu Arunachalam Sugumaran</i> , Sheffield Hallam University, UK; <i>Ryan Bower, Ming Fu</i> , Imperial College London, UK; <i>David Owen, Ethan Muir, Yashodhan Purandare, Papken Ehasiar Hovsepian</i> , Sheffield Hallam University, UK; <i>Peter K. Petrov, Rupert Oulton</i> , Imperial College London, UK; <i>Thomas Smith</i> , Sheffield Hallam University, UK  | <b>MA2-2-WeM-10</b> TiNbN / AlTiNbSiN / CrN Multilayer Coatings Irradiated by 300 keV Ar <sup>+</sup> Ions: The Role of Nitrogen, <i>Kuan-Che Lan, Chun-Hung Hsiao</i> , National Tsing Hua University, Taiwan; <i>Yin-Yu Chang</i> , National Formosa University, Taiwan  |
| 11:20am |  | <b>MA2-2-WeM-11</b> Extremely Versatile Coating Design Through Adjustable Magnetic Field Settings for Arc Sources Using the Advanced Arc Technology from Oerlikon Balzers, <i>Alexandre Michau, Denis Kurapov</i> , Oerlikon Surface Solution AG, Liechtenstein  |
| 11:40am |  |  |
| 12:00pm |  |  |

# Wednesday Morning, April 22, 2026

| <b>Protective and High-temperature Coatings</b><br><b>Room Palm 3-4 - Session MA3-3-WeM</b><br><b>High Entropy and Other Multi-principal-element</b><br><b>Materials III</b><br><b>Moderators:</b><br><b>Frederic Sanchette</b> , Université de Technologie de Troyes, France,<br><b>Pavel Soucek</b> , Masaryk University, Czechia |   | <b>Surface Engineering - Applied Research and Industrial</b><br><b>Applications</b><br><b>Room Palm 1-2 - Session IA2-1-WeM</b><br><b>Surface Modification of Components in Automotive,</b><br><b>Aerospace and Manufacturing Applications I</b><br><b>Moderators: Satish Dixit</b> , Plasma Technology Inc.,<br><b>Tanifuji Shinichi</b> , Kobe Steel Ltd., Japan   |   |
|---|---|--|---|
| 8:00am  |   | <b>INVITED: IA2-1-WeM-1</b> Micro-Impact Testing to Develop Multilayer Coating Systems with Enhanced Durability Under Cyclic High-Stress Contact, <b>Ben Beake</b> , Micro Materials Ltd, UK; <b>Tomasz Liskiewicz</b> , Manchester Metropolitan University, UK; <b>Sam McMaster</b> , Anglia Ruskin University, UK; <b>Daniel Tobola</b> , Lukasiewicz, Poland; <b>Luis Isern</b> , <b>John Nicholls</b> , Cranfield University, UK; <b>Hannah Zhang</b> , <b>Mark Gee</b> , National Physical Laboratory, UK   |   |
| 8:20am  |   |  |   |
| 8:40am  |   | <b>INVITED: IA2-1-WeM-3</b> From Lab to Industry: Scaling Atmospheric Plasma Coatings for Metal Protection Against Corrosion, <b>Daphne Pappas</b> , Plasmatrete USA   |   |
| 9:00am  | <b>MA3-3-WeM-4</b> CrMoNbTaV Refractory High-Entropy Alloy: From Bulk Material to Films via a Synergistic Theoretical-Experimental Approach, <b>Rafael Mendoza-Pérez</b> , <b>Ricardo González-Campuzano</b> , Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México; <b>David E. Martínez-Lara</b> , 2Escuela Nacional Preparatoria No.7 "Ezequiel A. Chávez", Universidad Nacional Autónoma de México; <b>Roxana M. Calderón-Olvera</b> , <b>Josué E. Romero-Ibarra</b> , <b>Ignacio A. Figueroa-Vargas</b> , <b>Sandra E. Rodil-Posada</b> , Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México   |  |   |
| 9:20am  | <b>MA3-3-WeM-5</b> Effects of HiPIMS Plasma Ionization and Deposition Parameters on the Microstructure and Mechanical Properties of TiZrNbTaMo High Entropy Alloy Films, <b>Chia-Lin Li</b> , Center for Plasma and Thin Film Technologies, Ming Chi University of Technology, Taiwan; <b>Bih-Show Lou</b> , Chemistry Division, Center for General Education, Chang Gung University, Taiwan; <b>Jyh-Wei Lee</b> , Department of Materials Engineering, Ming Chi University of Technology, Taiwan   | <b>IA2-1-WeM-5</b> Directed Energy Deposition of Bronze Coatings on Aluminium Substrates: Microstructure, Phase Evolution, and Process Optimization, <b>Christoph Witte</b> , <b>Claus-Henning Solterbeck</b> , University of Applied Science Kiel, Germany; <b>Hannes Freilße</b> , Kugler Bimetal SA, Switzerland; <b>Johannes Wiesheier</b> , <b>Thomas Rubenbauer</b> , Schlenk Metallic Pigments GmbH, Germany; <b>Andreas Ebert</b> , <b>Jürgen Barz</b> , Schmelzmetall Deutschland GmbH, Germany; <b>Jana Schloesser</b> , University of Applied Science Kiel, Germany |   |
| 9:40am  | <b>MA3-3-WeM-6</b> Phase Formation, Microstructure and Selected Properties of Magnetron Sputtered Cr-Ta, Cr-Nb and Cr-v-Ta Thin Films, <b>Jan-Ove Soehngen</b> , <b>Vincent Ott</b> , <b>Sven Ulrich</b> , <b>Michael Stueber</b> , KIT, Germany  | <b>IA2-1-WeM-6</b> Plasma Electrolytic Oxidation Coatings on Mg Alloy AE44 Prepared from Mixed Aluminate-silicate Electrolytes, <b>Tianyi Zhang (Student)</b> , <b>Ran Cai</b> , <b>Xueyuan Nie</b> , <b>Henry Hu</b> , Department of Mechanical, Automotive and Materials Engineering, University of Windsor, Canada  |   |
| 10:00am   | <b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>   |  | <b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b> |
| 10:20am   |   |  |   |
| 10:40am   |   |  |   |
| 11:00am   | <b>MA3-3-WeM-10</b> Overcoming Strength-Plasticity Trade-Off in Complex Concentrated Alloy Thin Films by Engineering Their Atomic and Microstructure, <b>Davide Vacirca</b> , <b>Arjun Curam</b> , Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France; <b>Gregory Abadias</b> , Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; <b>Andrea Li Bassi</b> , Nanolab, Department of Energy, Politecnico di Milano, Italy; <b>Christian Ricolleau</b> , University of Paris, Laboratory of Matériaux et Phénomènes Quantiques, France; <b>Gerhard Dehm</b> , Max Planck Institute for Sustainable Materials, Germany; <b>Matteo Ghidelli</b> , Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France | <b>INVITED: IA2-1-WeM-10</b> Low-Adhesion Carbon Coatings for the Sustainable Utilization of Geothermal Power Plants, <b>Yuya Nakashima</b> , Fuji Electric Co., Ltd., Japan; <b>Noritsugu Umehara</b> , Nagoya University, Japan; <b>Hiroyuki Kousaka</b> , Gifu University, Japan; <b>Takayuki Tokoroyama</b> , Nagoya University, Japan; <b>Motoyuki Murashima</b> , Tohoku University, Japan   |   |
| 11:20am   | <b>MA3-3-WeM-11</b> Exploring the Microstructure and Mechanical Properties of CoCrFeNiMn Thin Films, <b>Thomas Astecker (Student)</b> , TU Wien, Austria; <b>Peter Polcik</b> , Plansee SE, Austria; <b>Alexander Kirnbauer</b> , <b>Paul Heinz Mayrhofer</b> , TU Wien, Austria  |  |   |
| 11:40am   | <b>MA3-3-WeM-12</b> Reactive Sputtering of CrMoNbWTiAgCx Carbide Films by High Power Impulse Magnetron Sputtering System: Effect of Ag and C Contents, <b>BengYan Lu (Student)</b> , <b>Yung-Chin Yang</b> , National Taipei University of Technology, Taiwan; <b>Chia-Lin Li</b> , Ming Chi University of Technology, Taiwan; <b>Bih-Show Lou</b> , Chang Gung University, Taiwan; <b>Jyh-Wei Lee</b> , Ming Chi University of Technology, Taiwan  | <b>INVITED: IA2-1-WeM-12</b> Application-Driven Research in Surface Engineering for Advanced Cutting Tool and Component Applications - 25 years of cooperation between Plansee and Oerlikon -, <b>Peter Polcik</b> , <b>Szilard Kolozsvari</b> , Plansee Composite Materials GmbH, Germany; <b>Denis Kurapov</b> , Oerlikon Surface Solutions AG, Liechtenstein; <b>Helmut Riedl</b> , <b>Paul Heinz Mayrhofer</b> , Institute of Materials Science and Technology, TU Wien, Austria   |   |
| 12:00pm   |   |  |   |

# Wednesday Afternoon, April 22, 2026

**Keynote Lectures**

**Room Town & Country A - Session KYL2-WeKYL**

**Keynote Lecture II**

**Moderator:**

**Sandra E. Rodil**, Universidad Nacional Autónoma de México

1:00pm

**INVITED: KYL2-WeKYL-1** Nanoengineered Materials and Coatings for Medicine and Beyond,  
**Krasimir Vasilev**, Flinders University, Australia

1:20pm

# Wednesday Afternoon, April 22, 2026

| <b>Functional Thin Films and Surfaces</b><br><b>Room Palm 1-2 - Session MB1-WeA</b><br><b>Optical Materials and Thin Films</b><br><b>Moderators:</b><br><b>Jiri Houska</b> , University of West Bohemia, Czechia,<br><b>Juan Antonio Zapien</b> , City University of Hong Kong |   | <b>Plasma and Vapor Deposition Processes</b><br><b>Room Town &amp; Country B - Session PP2-2-WeA</b><br><b>HiPIMS, Pulsed Plasmas, and Energetic Deposition II</b><br><b>Moderators:</b><br><b>Arutiun P. Ehasarian</b> , Sheffield Hallam University, UK,<br><b>Tetsushide Shimizu</b> , Tokyo Metropolitan University, Japan |  |
|--|---|--|--|
| 2:00pm   | <b>INVITED: MB1-WeA-1</b> Ultrafast Phenomena in Optical Materials with fs Time-Resolved Spectroscopic Ellipsometry,<br><i>Shirly Espinoza</i> , ELI Beamlines. ELI ERIC, Czechia   | 2:00pm   | <b>INVITED: PP2-2-WeA-1</b> Understanding the Hyper-Power Impulse Magnetron Discharge and related Arc Transition,<br><i>Tiberiu Minea</i> , Erwan Morel, Zakaria Belkaid, Adrien Revel, University of Paris-Saclay, France   |
| 2:20pm   |   | 2:20pm   |  |
| 2:40pm   | <b>MB1-WeA-3</b> The Role of Contaminants in the Microstructural Evolution of Defects in Low-Emissivity Glazing at High Temperatures, <i>Phillip Rumsby (Student)</i> , Bill Baloukas, Oleg Zabeida, Ludvik Martinu, Polytechnique Montréal, Canada | 2:40pm   | <b>PP2-2-WeA-3</b> Plasma Characteristics, Microstructure, and Mechanical Properties of Tetrahedral Amorphous Carbon Thin Films Deposited by Time-Resolved High-Power Impulse Magnetron Sputtering with Synchronized Bias Control, <i>Fu-Sen Yang (Student)</i> , Yu-Lin Kuo, National Taiwan University of Science and Technology, Taiwan; <i>Chi-Lung Chang</i> , Ming Chi University of Technology, Taiwan, Republic of China |
| 3:00pm   | <b>INVITED: MB1-WeA-4</b> Thermochromic VO <sub>2</sub> -Based Coating for Energy-Saving Smart Windows: Design and Scalable Synthesis,<br><i>Jaroslav Vlcek</i> , University of West Bohemia, Czechia   | 3:00pm   | <b>PP2-2-WeA-4</b> Carbon Discharge Dynamics by Pulse Sequencing: Pulse Parameter Control in Multipulse Hipims, <i>Ryo Sakamoto</i> , <i>Tetsuhide Shimizu</i> , Tokyo Metropolitan University, Japan  |
| 3:20pm   |   | 3:20pm   | <b>INVITED: PP2-2-WeA-5</b> Understanding the Impact of Kinetic and Potential Ion Energies on Thin Film Structure Toward Low-Temperature Deposition, <i>Dmitry Kalanov</i> , <i>Andre Anders</i> , <i>Yeliz Unutulmazsoy</i> , Leibniz Inst. of Surface Eng. (IOM), Germany  |
| 3:40pm   | <b>INVITED: MB1-WeA-6</b> Designing Light-Active Thin Film Heterojunctions: Band Alignment and Layer Engineering for Efficient Photocatalysis,<br><i>Monserrat Bizarro</i> , UNAM, Mexico   | 3:40pm   |  |

# Wednesday Afternoon, April 22, 2026

| <b>Topical Symposium on Sustainable Surface Engineering</b><br><b>Room Palm 5-6 - Session TS2-1-WeA</b><br><b>Coatings and Surfaces for Renewable Energy Technology I</b><br><b>Moderators:</b><br><b>Arnaud Le Febvrier</b> , Uppsala University, Sweden,<br><b>Marcus Hans</b> , RWTH Aachen University, Germany |  | <b>Tribology and Mechanics of Coatings and Surfaces</b><br><b>Room Town &amp; Country C - Session MC3-2-WeA</b><br><b>Tribology of Coatings and Surfaces for Industrial Applications II</b><br><b>Moderators: Osman Eryilmaz</b> , Argonne National Laboratory   |  |
|--|--|--|--|
| 2:00pm   |  | <b>INVITED: MC3-2-WeA-1</b> Tailoring and Designing High-Performance Carbon Coatings - Insides in Recent Developments and New Approaches for Tribological Applications,<br><b>Dominic Stangier</b> , Oerlikon Balzers Coating Germany GmbH, Germany  |  |
| 2:20pm   | <b>TS2-1-WeA-2</b> Strain Engineering of ScN Thin Film by HiPIMS and Its Effect on Optical, Electrical and Thermoelectric Properties, <b>Arnaud le Febvrier</b> , <b>Sanath Kumar Honnali</b> , Uppsala University, Angstrom Laboratory, Sweden; <b>Charlotte Poterie</b> , Universite de Poitiers-CNRS, France; <b>Tiago V. Fernandes</b> , <b>Robert Frost</b> , Uppsala University, Angstrom Laboratory, Sweden; <b>Vladyslav Rogoz</b> , Linköping University, Sweden; <b>Martin Magnuson</b> , Linköping University, Sweden; <b>Fabien Giovannelli</b> , Université de Tours, France; <b>Joaquim P. Leitão</b> , Universidade de Aveiro, Portugal; <b>Jean Francois Barbot</b> , Universite de Poitiers-CNRS, France; <b>Per Eklund</b> , Uppsala University, Angstrom Laboratory, Sweden |  |  |
| 2:40pm   | <b>INVITED: TS2-1-WeA-3</b> 1D & 2D Material-Based Electronic Devices for Energy Harvesting and Sustainable Technology,<br><b>Elisabetta Dimaggio</b> , University of Pisa, Italy  | <b>MC3-2-WeA-3</b> Advanced Coating and Surface Techniques in Modern Automotive Tribology, <b>Sung Chul Cha</b> , Hyundai Motor Group- Hyundai Kefico, Republic of Korea; <b>Kyoung Il Moon</b> , <b>Hae Won Yoon</b> , <b>Gi-Hoon Kwon</b> , KITECH, Republic of Korea; <b>Jongkuk Kim</b> , KIMS, Republic of Korea  |  |
| 3:00pm   |  | <b>MC3-2-WeA-4</b> Development and Evaluation of TiAlVSiCN Coatings for Automotive Applications, <b>Jianliang Lin</b> , Southwest Research Institute, San Antonio Texas, USA   |  |
| 3:20pm   | <b>TS2-1-WeA-5</b> Harnessing the mechanical and magnetic energy with PMN-PT/Ni-Mn-In-based flexible piezoelectric nanogenerator, <b>Satyam Shankhdhar (Student)</b> , Indian Institute of Technology Roorkee (IIT R), India   | <b>MC3-2-WeA-5</b> New Carbon High Productivity / Low Temperature Coater with New Temperature Measurement and New Colour Coating,<br><b>Markus Esselbach</b> , Oerlikon, Liechtenstein   |  |
| 3:40pm   | <b>TS2-1-WeA-6</b> High Power Impulse Magnetron Sputtering of CoCrFeNiV High Entropy Alloy Thin Films for Enhanced Supercapacitor Applications, <b>Krishnakant Tiwari</b> , Ming Chi University of Technology, Taiwan; <b>Bih Show Lou</b> , Chang Gung University, Taoyuan, Taiwan; <b>Jyh Wei Lee</b> , Ming Chi University of Technology, Taiwan  | <b>MC3-2-WeA-6</b> Evaluation of Boriding as a Post-Treatment to Improve the Thermal Stability and Tribological Performance of Weld-Repaired Tool Steels, <b>Cesar Resendiz Calderon</b> , <b>Leonardo Farfan Cabrera</b> , Tecnologico de Monterrey, Mexico; <b>Enrique Campos Silva</b> , Instituto Politecnico Nacional, Mexico; <b>Edgar Ravelo Santos</b> , <b>Mateo Roux Reyna</b> , <b>Sebastian Garcia Barragan</b> , Tecnologico de Monterrey, Mexico |  |

# Wednesday Afternoon, April 22, 2026

**Awards Ceremony and Honorary Lecture**  
**Room Town & Country A - Session HL-WeHL**  
**Bunshah Award Honorary Lecture**

5:45pm

**INVITED: HL-WeHL-1 RF Bunshah Awardee Honorary Lecture: “Chameleon” Adaptive Tribological Coatings: Lessons Learned and Future Outlook,**  
**Andrey A. Voevodin<sup>1</sup>**, University of North Texas, USA

6:05pm

<sup>1</sup> R.F. Bunshah Awardee Honorary Lecture

# Thursday Morning, April 23, 2026

| <b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b><br><b>Room Town &amp; Country C - Session CM2-1-ThM</b><br><b>Advanced Mechanical-Physical Testing of Surfaces, Thin Films, Coatings and Small Volumes I</b><br><b>Moderators:</b><br><b>Matteo Ghidelli, Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France</b> |  | <b>Functional Thin Films and Surfaces</b><br><b>Room Palm 3-4 - Session MB2-3-ThM</b><br><b>Thin Films for Emerging Electronic and Quantum Photonic Devices III</b><br><b>Moderators:</b><br><b>Jiri Capek, University of West Bohemia, Czechia,</b><br><b>Spyros Kassavetis, Aristotle University of Thessaloniki, Greece</b>                               |  |
|---|--|--|--|
| 8:00am  |  |  |  |
| 8:20am  |  |  |  |
| 8:40am  | <b>CM2-1-ThM-3</b> Ultra-High Vacuum Tribology: Industrial Relevance, Mechanisms, and Research Gaps, <b>Esteban Broitman, Sven Kelling, Rickmer Kose</b> , Sentys Inc., USA  | <b>MB2-3-ThM-3</b> From Passive to Active Structurally Controlled Optical Coatings for Energy, Eyewear and Sensor Applications, <b>Bill Baloukas, Martin Crouan, Brandon Faceira, Aleksandra Pajak, Philip Rumsby (Student), Oleg Zabeida, Jolanta Klemberg-Sapieha, Ludvik Martinu</b> , Polytechnique Montréal,  |  |
| 9:00am  | <b>CM2-1-ThM-4</b> Atomic-Scale Revealing the Mechanical Response of Defect-Mediated Nitride Ceramics, <b>Zhang Zaoli</b> , Erich Schmid Institute, Austria; <b>Chen Zhuo, Yong Huang</b> , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria   | <b>MB2-3-ThM-4</b> Glancing Angle Deposition of WO <sub>x</sub> and Cu-doped TiO <sub>2</sub> Thin Films for Improved Conductometric Gas Sensing, <b>Akash Kumar (Student)</b> , University of West Bohemia, NTIS, India; <b>Stanislav Haviar</b> , University of West Bohemia, NTIS, Czechia; <b>Nirmal Kumar</b> , University of West Bohemia, NTIS, India |  |
| 9:20am  | <b>INVITED: CM2-1-ThM-5</b> Probing nanoscale deformation mechanisms in metastable metallic thin films using 4D-STEM, <b>Lukas Schretter (Student)</b> , Jürgen Eckert, Christoph Gammer, Austrian Academy of Sciences, Austria  | <b>MB2-3-ThM-5</b> Sputter Coating of High-Quality Vo <sub>2</sub> Metal-Insulator Transition Films for Flexible Electronics, <b>Juan Andres Hofer</b> , University of California San Diego, USA; <b>Ali C. Basaran</b> , General Atomics, USA; <b>Tianxing Damir Wang, Ivan K. Schuller</b> , University of California San Diego, USA                       |  |
| 9:40am  |  |  |  |
| 10:00am   | <b>BREAK</b>   | <b>BREAK</b>   |  |
| 10:20am   | <b>INVITED: CM2-1-ThM-8</b> High-Speed Nanoindentation Mapping and Machine Learning as Enabling Technologies for Combinatorial Thin-Film Libraries, <b>Edoardo Bemporad</b> , Roma tre university, Italy; <b>Rostislav Daniel</b> , Montanuniversität Leoben, Leoben, Austria; <b>Edoardo Rossi</b> , Roma Tre University, Italy; <b>Michal Zitek</b> , Montanuniversität Leoben, Leoben, Austria; <b>Marco Sebastiani</b> , Roma Tre University, Italy  | <b>MB2-3-ThM-8</b> - In Situ Electron-Beam-Induced Selective-Area Growth of Tellurium Films by Molecular Beam Epitaxy, <b>Ossie Douglas (Student)</b> , University of South Florida, USA; <b>Peter Snapp</b> , NASA Goddard Space Flight Center, USA; <b>Ali Ashraf</b> , University of South Florida, USA   |  |
| 10:40am   |  | <b>MB2-3-ThM-9</b> High Tunability in Crystallographic Design of Thin Films Enabled by Atomic Imprint Crystallization, <b>Koichi Tanaka</b> , Argonne National Laboratory, USA; <b>Xella Doi, Connor Horn, Chloe Tsang, Supratik Guha</b> , University of Chicago, USA   |  |
| 11:00am   | <b>INVITED: CM2-1-ThM-10</b> Deformation Twins, Kink Bands and Stacking Faults: Highlighting the Diversity and Complementarity of Deformation Mechanisms in the MAX Phase Cr <sub>2</sub> AlC Through Micromechanical Testing, <b>Christophe TROMAS, Mohamed AKOU</b> , Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; <b>Salomé PARENT</b> , institut pprime - CNRS - ENSMA - Université de Poitiers, France; <b>Anne JOULAIN</b> , Institut Pprime - CNRS - ENSMA - Université de Poitiers, France | <b>MB2-3-ThM-10</b> Thin Film Processing Strategies for High-Throughput Autonomous Materials Discovery and Development, <b>Christopher Muratore</b> , University of Dayton, USA; <b>Brian Everhart, Drake Austin, Nicholas Glavin</b> , US Air Force Research Laboratory, USA  |  |
| 11:20am   |  | <b>INVITED: MB2-3-ThM-11</b> Designing Porosity for Function: Polymer-Templated Metal Oxides for Catalysis and Broadband, Wide-Angle Optics, <b>Elena V. Shevchenko</b> , University of Chicago, Argonne National Laboratory, USA; <b>Diana Berman</b> , University of North Texas, USA  |  |
| 11:40am   | <b>CM2-1-ThM-12</b> Analysis of the Mechanical Properties of APS Coatings Deposited on Agricultural Plough Components, <b>Boris Nazar</b> , Technical University of Moldova; <b>Fabian Cezar Lupu, Corneliu Munteanu, Viorel Goanta, Bogdan Istrate</b> , "Gheorghe Asachi" Technical University of Iasi, Romania; <b>Grigore Marian</b> , Technical University of Moldova; <b>Marcelin Benchea</b> , "Gheorghe Asachi" Technical University of Iasi, Romania  |  |  |
| 12:00pm   | <b>CM2-1-ThM-13</b> Thin Film Characterization by Ultrasonically Induced Nanofatigue During Nanoindentation, <b>Antanas Daugela</b> , Nanometronix LLC, USA  |  |  |

# Thursday Morning, April 23, 2026

| <p><b>Surface Engineering - Applied Research and Industrial Applications</b><br/> <b>Room Palm 1-2 - Session IA3-ThM</b><br/> <b>Innovative Surface Engineering for Advanced Cutting and Forming Tool Applications</b><br/> <b>Moderators:</b><br/> <b>Markus Esselbach</b>, Oerlikon Balzer, Liechtenstein,<br/> <b>Kuan Che Lan</b>, National Tsing Hua University, Taiwan</p> |  | <p><b>Surface Engineering of Biomaterials, Devices &amp; Regenerative Materials: Health, Food, &amp; Agriculture Applications</b><br/> <b>Room Town &amp; Country B - Session MD2-2-ThM</b><br/> <b>Coatings and Sensors for Health, Food and Agriculture: Antibacterial, Bioactive, and Flexible Interfaces II</b><br/> <b>Moderators: Valentim A.R. Barão</b>, University of Campinas (UNICAMP), Brazil,<br/> <b>Jean Geringer</b>, Ecole Nationale Supérieure des Mines, France</p>   |  |
|--|--|--|--|
| 8:00am   | <p><b>IA3-ThM-1</b> Tool-Embedded Piezoresistive Thin-Film Sensors for Guide-Pad Normal Force Measurement in Deep Hole Drilling, <b>Martin Rekowski (Student)</b>, Fraunhofer IST, Germany; <b>Lucas Brause, Sebastian Michel</b>, TU Dortmund University ISF, Germany; <b>Anna Schott, Christoph Herrmann</b>, Fraunhofer IST, Germany; <b>Dirk Biermann</b>, TU Dortmund University ISF, Germany</p>   | <p><b>MD2-2-ThM-1</b> Surface Modification of AZ31B by Oxygen-Plasma Immersion Ion Implantation to Promote Schwann Cell Interaction for Peripheral Nerve Regeneration, <b>Luciana Malvestiti (Student)</b>, <b>Carlo Paternoster, Francesco Copes</b>, LBB, CHU de Quebec research center, Laval University, Canada; <b>Paolo Mengucci, Giani Barucca</b>, Department SIMAU, Università Politecnica delle Marche, Ancona, Italy; <b>Silvia Ceré</b>, INTEMA-CONICET, Mar del Plata National University, Argentina; <b>Andranik Sarkissian</b>, Plasmionique Inc., Varennes, QC, Canada; <b>Diego Mantovani</b>, LBB, CHU de Quebec research center, Laval University, Canada</p>                         |  |
| 8:20am   |  | <p><b>MD2-2-ThM-2</b> Multifunctional PEO-PPy/Zn Coatings Combined with Electrical Stimulation for Enhanced Antimicrobial and Osteogenic Titanium Surfaces, <b>Valentim A. R. Barão, Maria Helena R. Borges, Samuel Santana Malheiros, Julia M. Teodoro</b>, Univ. of Campinas (UNICAMP), Brazil; <b>João Gabriel S. Souza</b>, Guarulhos Univ. (UNG), Brazil; <b>Elidiane C. Rangel</b>, Sao Paulo State Univ. (UNESP), Brazil; <b>Ana Paula Souza, Bruna Egumi Nagay</b>, Univ. of Campinas, Brazil</p>  |  |
| 8:40am   | <p><b>INVITED: IA3-ThM-3</b> Development of in-Situ Cleaning Processes and Customized Coatings on Numismatic Coinage Dies for Minting Industry, <b>João Coroa, Alexander Gorupp, Parnia Navabpour, Giuseppe Sanzone, Hailin Sun</b>, Teer Coatings, UK</p>   | <p><b>MD2-2-ThM-3</b> Effect of Zirconium Addition on Zn- and Mg-Based Thin Film Properties Deposited by Magnetron Sputtering for Intravascular Biodegradable Materials, <b>Fatiha Challali, Cristiano Poltronieri</b>, Lab des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France; <b>Vinicius De Oliveira F. Sales, Carlos Henrique Michelin Beraldo, Carlo Paternoster</b>, Université Laval, Canada; <b>Frédéric Chaubet</b>, Univ Sorbonne Paris Nord, France; <b>Phillippe Djemia</b>, Lab des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France; <b>Diego Mantovani</b>, Univ Laval, Canada</p>  |  |
| 9:00am   |  | <p><b>MD2-2-ThM-4</b> Swelling Effect on Uhmwpe Cup: Long Term Consequences on Malfunctioning the Junction Head-Cup-Metal Back, <b>Jean Geringer, Albert Boyer</b>, Mines Saint-Etienne, France; <b>Bertrand Boyer</b>, Hopital Edouard Herriot - Hospices Civils de Lyon, France; <b>Frederic Farizon</b>, CHU Saint-Etienne, France</p>  |  |
| 9:20am   | <p><b>IA3-ThM-5</b> Machining of Hardened Steels under Dry Conditions: Wear Mechanisms of AlTiSiN and AlTiXN-TiSiZn (X, Z= nonmetal elements) Coatings, <b>Rong Zhao, Simon Evertz, Alexander Fehr, Markus Schenkel</b>, voestalpine eifeler Vacotec GmbH, Germany</p>   | <p><b>MD2-2-ThM-5</b> Effect of Thermal Evaporation Deposited Silver Nanoparticles on the Antibacterial Behavior of Plasma Electrolytic Oxidation Coated AZ31B Magnesium Alloy, <b>Ming-Hsuan Chang (Student), Chuan=Ming Tseng</b>, Ming Chi University of Technology, Taiwan</p>   |  |
| 9:40am   | <p><b>IA3-ThM-6</b> Improving Injection Molding Process Performance of Recycled Plastics, <b>Yavor Sofronov, Georgi Todorov, Milko Angelov, Boyan Dochev, Antonio Nikolov, Valentin Mishev, Krum Petrov, Rayna Dimitrova, Milko Yordanov</b>, Technical University of Sofia, Bulgaria; <b>Krassimir Marchev</b>, Technical University of Sofia, USA</p>  |  |  |
| 10:00am  | <b>BREAK</b>   | <b>BREAK</b>   |  |
| 10:20am  |  | <p><b>INVITED: MD2-2-ThM-8</b> Dislocation-Mediated Plasticity and Strain Localization in Transition Metal Nitrides: Insights from Micropillar Compression, <b>Rainer Hahn</b>, CDL-SEC, TU Wien, Austria; <b>Peter Polcik, Szilard Kolozsvari</b>, Plansee Composite Materials GmbH, Germany; <b>Klaus Boebel</b>, Oerlikon Surface Solutions AG, Liechtenstein; <b>Helmut Riedl</b>, CDL-SEC, TU Wien, Austria</p>   |  |
| 11:00am  | <p><b>IA3-ThM-10</b> Over 30 Years of PVD Aluminium-Oxide Based Hard Coatings in Demanding Industrial Applications, <b>Philipp Immich, Louis Tegelaers, Julia Janowitz, Daniel Barnholt</b>, IHI Hauzer Techno Coating B.V., Netherlands; <b>Rolf Schäfer, Tobias Radny</b>, Robeko GmbH &amp; Co. KG, Germany; <b>Thomas Schütte</b>, PLASUS GmbH, Germany</p>  | <p><b>MD2-2-ThM-10</b> Biofunctional Zinc Phosphate-Loaded Membranes as a Potential Anti-Biofilm and Remineralizing Approach for Caries Management, <b>Gina Prado-Prone, Lorena Reyes-Carmona, Lizeth A. González-Vargas</b>, Universidad Nacional Autónoma de México; <b>Phaedra S. Silva-Bermudez</b>, Instituto Nacional de Rehabilitación Luis Guillermo Ibarra Ibarra, Mexico; <b>Sandra E. Rodil</b>, Universidad Nacional Autónoma de México; <b>Nicola Cioffi</b>, Università degli Studi di Bari Aldo Moro, Italy; <b>Camila A. Zamperini Zamperini</b>, University of Illinois Chicago; <b>Argelia Almaguer-Flores</b>, Universidad Nacional Autónoma de México</p>                            |  |
| 11:20am  | <p><b>IA3-ThM-11</b> Sputtered CrN-based coating concepts for plastic injection molding, <b>Alexander Fehr</b>, Voestalpine eifeler Vacotec, Germany</p>   | <p><b>MD2-2-ThM-11</b> Growth Mechanism and Cellular Response to Film Thickness Variations of Nanoporous Alkaline Titanate-Converted, Magnetron Sputtered Ti Thin Films, <b>Matthew Wadge</b>, Manchester Metropolitan University, UK; <b>Kozim Midkhatov</b>, Univ. of Manchester, UK; <b>Jonathan Wilson, Louise Briggs, Timothy Cooper, Zakhar Kudrynskiy</b>, Univ. of Nottingham, UK; <b>Reda Felfel</b>, University of Strathclyde, UK; <b>Ifty Ahmed, Colin Scotchford, David Grant</b>, Univ. of Nottingham, UK; <b>Justyna Kulczyk-Malecka</b>, Manchester Metropolitan University, UK; <b>Mahetab Amer</b>, Univ. of Manchester, UK; <b>Peter Kelly</b>, Manchester Metropolitan Univ., UK</p> |  |
| 11:40am  | <p><b>IA3-ThM-12</b> Study on Multilayer Thick ta-C Coating Process on Cutting Tools for CFRP Machining Using Filtered Cathodic Vacuum Arc Deposition, <b>Jongkuk Kim, Jae-Il Kim, Young-Jun Jang</b>, Korea Institute of Materials Science, Republic of Korea</p>   | <p><b>MD2-2-ThM-12</b> Antibacterial Performance of Electrodeposited Copper Coatings on Titanium Alloy Surfaces for Biomedical Applications, <b>Bryan Angel Zárate Verduzco (Student)</b>, Universidad Michoacana de San Nicolás de Hidalgo, Mexico; <b>Victor Manuel Solorio García, Miguel Ivan Dávila Perez</b>, Tecnológico Nacional de México/ Instituto Tecnológico de Morelia, Mexico; <b>Roberto Guerra González, Sandra Edith Lopez Castañeda, Alfonso Lemus Solorio, Maria Guadalupe Carreon Garcidueñas</b>, Universidad Michoacana de San Nicolás de Hidalgo, Mexico</p>   |  |
| 12:00pm  | <p><b>IA3-ThM-13</b> Enhanced Fe and Ni bonded NbC Laser Surface Engineered Hardmetals: Alternative Cutter Materials for Electric Vehicle Applications, <b>Rodney Genga</b>, University of the Witwatersrand, South Africa; <b>Suzan Conze, Lutz-Michael Berger, Johannes Pötschke</b>, IKTS Fraunhofer Institute, Germany; <b>Julien Witte, Dirk Schroepfer</b>, BAM Berlin, Germany; <b>Adam Čermák, Pavel Zeman</b>, Czech Technical Univ. in Prague, Czech Republic; <b>Sinoyolo Ngongo, Arno Janse van Vuuren</b>, Nelson Mandela Univ., South Africa</p> | <p><b>MD2-2-ThM-13</b> Low-Pressure Plasma Processes for the Deposition of Adherent Diamond-Like Carbon Coatings on Titanium Alloys for Biomedical Applications, <b>Chloé Audet, Pascale Chevallier</b>, Laval University, Canada; <b>Sandra Rubio</b>, University of Namur, Belgium; <b>Andranik Sarkissian</b>, Plasmionique Inc, Canada; University of Namur, Belgium; <b>Diego Mantovani</b>, Laval University, Canada</p>   |  |

# Thursday Morning, April 23, 2026

| <b>Topical Symposium on Sustainable Surface Engineering</b><br><b>Room Town &amp; Country D - Session TS2-2-ThM</b><br><b>Coatings and Surfaces for Renewable Energy Tech II</b><br><b>Moderators:</b><br><b>Arnaud le Febvrier</b> , Uppsala University, Sweden,<br><b>Marcus Hans</b> , RWTH Aachen University, Germany |  |
|---|--|
| 8:00am  | <b>INVITED: TS2-2-ThM-1</b> Energy-Efficient Hydrogen Production via Urea-Assisted Electrolysis Enabled by Linker-Engineered NiCo MOFs, <b>Thi Xuyen Nguyen</b> , <i>Hui-Chuan Chen, Jyh-Ming Ting</i> , National Cheng Kung University, Taiwan  |
| 8:20am  |  |
| 8:40am  |  |
| 9:00am  | <b>TS2-2-ThM-4</b> Optimization of Tunable Interfacial Engineering in WO <sub>x</sub> /α-Fe <sub>2</sub> O <sub>3</sub> Heterostructures via Dc Magnetron Sputtering for Enhanced PEC Activity and Carrier Transport Efficiency, <b>Carlos Gomes (Student)</b> , <i>Mariane Murase Murase, Matheus Torres, Douglas Leite, Rodrigo Pessoa, Argemiro Sobrinho, André Pereira</i> , Instituto Tecnológico de Aeronáutica, Brazil  |
| 9:20am  | <b>TS2-2-ThM-5</b> Thermal Treatment Effects on the Structural and Optoelectronic Properties of Nb <sub>2</sub> O <sub>5</sub> Thin Films Deposited by DC Magnetron Sputtering, <i>Rodrigo Prado Medeiros Leite da Silva, Natali da Silva Barbosa, Bianca Sartori</i> , Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, Brazil; <i>Lucas Diniz Araujo</i> , Aeronautics Institute of Technology (ITA), Brazil; <i>Carlos Eduardo Gomes</i> , Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, Brazil; <i>Filipe Caldato Dalan, André Luis de Jesus Pereira, Argemiro Soares da Silva Sobrinho</i> , Aeronautics Institute of Technology (ITA), Brazil |
| 9:40am  |  |
| 10:00am   | <b>BREAK</b>   |
| 10:20am   | <b>TS2-2-ThM-8</b> Interface-Driven Evolution and Electrochemical Behavior of CuO/WO <sub>x</sub> Heterostructures Deposited by Magnetron Sputtering, <i>Rafael Leal, Giovana Fazenda, Helen Barros, David Graves, Filipe Dalan, Mariane Murase, Marcilene Gomes</i> , Aeronautics Institute of Technology (ITA), Brazil; <i>Douglas Leite</i> , Aeronautics Institute of Technology, Brazil; <i>Argemiro Silva-Sobrinho, André Pereira</i> , Aeronautics Institute of Technology (ITA), Brazil  |
| 10:40am   | <b>TS2-2-ThM-9</b> Unlocking the Potential of Medium-Entropy Prussian Blue for Superior Electro-Fenton Oxidation, <b>Sheng-Wei Lin (Student)</b> , <i>Jyh-Ming Ting</i> , National Cheng Kung University (NCKU), Taiwan  |
| 11:00am   | <b>TS2-2-ThM-10</b> Non-Precious Metal Phosphide/Sulfide Heterostructure Electrocatalyst for SOR, <b>Jian-An Wu (Student)</b> , <i>Jyh-Ming Ting</i> , National Cheng Kung University (NCKU), Taiwan   |
| 11:20am   | <b>TS2-2-ThM-11</b> Defect-Engineered Copper-Based Materials for Electrocatalytic Nitrate Reduction, <b>Ting-Chun Hung (Student)</b> , <i>Jyh-Ming Ting</i> , National Cheng Kung University (NCKU), Taiwan  |
| 11:40am   |  |
| 12:00pm   |  |

# Thursday Afternoon, April 23, 2026

**Keynote Lectures**

**Room Town & Country B - Session KYL3-ThKYL**

**Keynote Lecture III**

**Moderator:**

**Sandra E. Rodil**, Universidad Nacional Autónoma de México

12:40pm

**INVITED: KYL3-ThKYL-1** Compressive Stress as Creative Force: Engineering Ultrahard Hydrogen-Free Carbon for a Diamond-Like Properties,  
**David R. McKenzie**, University of Sydney, Australia

1:00pm

# Thursday Afternoon, April 23, 2026

|  |   |  |
|--|---|--|
| <p><b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b><br/> <b>Room Town &amp; Country C - Session CM3-3-ThA</b><br/> <b>Data-Driven Thin Film Design: High-Throughput Experimentation, Simulation, and Machine Learning III</b><br/> <b>Moderators:</b><br/> <b>Kevin Kaufmann</b>, Oerlikon, USA,<br/> <b>Sebastian Siol</b>, Empa, Switzerland</p> |   | <p><b>Plasma and Vapor Deposition Processes</b><br/> <b>Room Town &amp; Country B - Session PP3-ThA</b><br/> <b>CVD, ALD, and Laser-based Deposition &amp; Microfabrication Technologies</b><br/> <b>Moderators:</b><br/> <b>Carles Corbella</b>, National Institute of Standards and Technology (NIST)/ University of Maryland, College Park,<br/> <b>Frederic Mercier</b>, CNRS, Grenoble-INP, University Grenoble Alpes, SIMaP laboratory, France</p> |
| 1:20pm   | <p><b>INVITED: CM3-3-ThA-1</b> Transforming Thin-Film Research Through Autonomous Experimentation: From Synthesis to Long-Term Device Performance, <i>Davi Febba</i>, <i>Brooks Tellekamp</i>, <i>William Callahan</i>, <i>Andriy Zakutayev</i>, National Renewable Energy Laboratory, USA</p>  |  |
| 1:40pm   |   |  |
| 2:00pm   | <p><b>CM3-3-ThA-3</b> HiPIMS Process-Optimization in an Autonomous Sputter Chamber via Active Learning, <i>Alexander Wieczorek</i>, <i>Nathan Rodkey</i>, <b>Sebastian Siol</b>, Empa - Swiss Federal Laboratories for Materials Science and Technology, Switzerland</p>  | <p><b>INVITED: PP3-ThA-3</b> Unveiling the Potential of Transparent Conductive Materials by Atomic/Molecular Layer Deposition: From Process Synthesis to Functionalization, <b>Abderrahime Sekkat</b>, Univ. Toulouse, CNRS, Toulouse INP, LGC, Toulouse, France., France</p>  |
| 2:20pm   | <p><b>INVITED: CM3-3-ThA-4</b> Accelerating Experiments with AI and Automation: Powder Materials and their Compositional Characterization, <b>Andrea Giunto</b>, <i>Yuxing Fei</i>, <i>Bernardus Rendy</i>, Lawrence Berkeley Lab, University of California, Berkeley, USA; <i>Pragnay Nevatia</i>, University of California at Berkeley, USA; <i>Nathan Szymanski</i>, <i>Gerbrand Ceder</i>, Lawrence Berkeley Lab, University of California, Berkeley, USA</p> |  |
| 2:40pm   |   | <p><b>INVITED: PP3-ThA-5</b> In-Plasma XPS: a New Metrology Tool for Semiconductor Process Development and Control, <b>Andrei Kolmakov</b>, NIST-Gaithersburg, USA</p>   |
| 3:00pm   | <p><b>INVITED: CM3-3-ThA-6</b> Autonomous Experimentation with Quality Control and Cross-Facility Coordination, <b>Yongtao Liu</b>, Oak Ridge National Laboratory, USA</p>  |  |
| 3:20pm   |   | <p><b>PP3-ThA-7</b> Ultrathin SiN<sub>x</sub> Membrane Stability Under Energy Fluxes from Non-Thermal Plasma Discharges Monitored via Nanocalorimetry, <b>Carles Corbella</b>, National Institute of Standards and Technology (NIST)/ University of Maryland, College Park, USA; <i>Feng Yi</i>, <i>Andrei Kolmakov</i>, National Institute of Standards and Technology (NIST), USA</p>  |
| 3:40pm   | <b>BREAK</b>  | <b>BREAK</b>   |
| 4:00pm   | <p><b>INVITED: CM3-3-ThA-9</b> Self-Navigating Thin Film Laboratory: Real-Time AI-Driven Optimization of Functional Thin Films, <b>Ichiro Takeuchi</b>, University of Maryland, USA</p>   |  |
| 4:20pm   |   |  |
| 4:40pm   | <p><b>CM3-3-ThA-11</b> Advances in the Rapid Characterization of Sputter-Deposited, Binary Metal Thin Films Made by Combinatorial Techniques, <b>David Adams</b>, <i>Finley Haines</i>, <i>Sadhvikas Addamane</i>, <i>Kyle Dorman</i>, <i>Remi Dingreville</i>, <i>Saaketh Desai</i>, <i>Brad Boyce</i>, <i>Mark Rodriguez</i>, Sandia National Laboratories, USA</p>   |  |

# Thursday Afternoon, April 23, 2026

|  |   |  |  |
|--|---|--|--|
| <p><b>Plasma and Vapor Deposition Processes</b><br/> <b>Room Palm 1-2 - Session PP4-ThA</b><br/> <b>Greybox Models for Wear Prediction</b><br/> <b>Moderators:</b><br/> <b>Philipp Immich</b>, IHI Hauzer Techno Coating B.V., Netherlands</p> |   | <p><b>Surface Engineering - Applied Research and Industrial Applications</b><br/> <b>Room Town &amp; Country D - Session IA2-2-ThA</b><br/> <b>Surface Modification of Components in Automotive, Aerospace and Manufacturing Applications II</b><br/> <b>Moderators: Miha Cekada</b>, Jozef Stefan Institute, Slovenia,<br/> <b>Satish Dixit</b>, Plasma Technology Inc., USA</p>  |  |
| 1:20pm   |   |  |  |
| 1:40pm   | <p><b>PP4-ThA-2</b> Integrating Tribological Descriptors and Physics-Informed Modelling for Tool Wear Prediction in PVD Coated Milling Tools, <b>Amod Kashyap</b>, Institute for Applied Materials (IAM-ZM), Micro-Tribology Centre (<math>\mu</math>TC), Karlsruhe Institute of Technology, Germany; <b>Amirmohammad Jamali</b>, Institute of Production Science (wbk), Karlsruhe Institute of Technology, Germany; <b>Finn Rumenapf</b>, <b>Nelson Filipe Lopes Dias</b>, <b>Wolfgang Tillmann</b>, Institute of Materials Engineering (LWT), TU Dortmund University, Germany; <b>Johannes Schneider</b>, Institute for Applied Materials (IAM-ZM), Micro-Tribology Centre (<math>\mu</math>TC), Karlsruhe Institute of Technology, Germany; <b>Michael Stueber</b>, Institute for Applied Materials (IAM-AWP), Karlsruhe Institute of Technology, Germany; <b>Volker Schulze</b>, Institute of Production Science (wbk), Karlsruhe Institute of Technology, Germany</p> | <p><b>INVITED: IA2-2-ThA-2</b> From Development to Series Production in Automotive – The Role of Coating Characterization, <b>Nazlim Bagcivan</b>, Schaeffler Technologies GmbH &amp; Co. KG, Germany</p>  |  |
| 2:00pm   | <p><b>INVITED: PP4-ThA-3</b> Discovering Hard, Conductive Films via Combinatorial High-Throughput Multimodal Characterization and Machine Learning, <b>Brad Boyce</b>, Sandia National Laboratories, USA</p>  |  |  |
| 2:20pm   |   | <p><b>IA2-2-ThA-4</b> Investigation of Salt Solution Drying Behavior to Improve Coating Performance for Marine Turbomachinery, <b>Sadikshya Pandey (Student)</b>, <b>David Poerschke</b>, University of Minnesota, USA</p>   |  |
| 2:40pm   | <p><b>PP4-ThA-5</b> Influence of Temperature- Dependent Mechanical Properties on Tool Load in Cutting, <b>Christian Kalscheuer</b>, <b>Kirsten Bobzin</b>, <b>Xiaoyang Liu</b>, Surface Engineering Institute - RWTH Aachen University, Germany; <b>Benjamin Bergmann</b>, <b>Berend Denkena</b>, <b>Nico Junge</b>, Institute of Production Engineering and Machine Tools, Hannover, Germany</p>   | <p><b>INVITED: IA2-2-ThA-5</b> Enhancing Mechanisms for the Increased Performance of Nuclear Energy and Aerospace Coating- and Solid-RHEA Components, <b>Sal Rodriguez</b>, 11251 Pino Ave. NE, USA; <b>Satish Dixit</b>, Plasma Technology Inc., USA; <b>Nima Fathi</b>, Texas A&amp;M University, USA</p>  |  |
| 3:00pm   |   |  |  |
| 3:20pm   |   | <p><b>IA2-2-ThA-7</b> Element-Resolved Investigation of Zr-Based Conversion Coatings on Aluminum and Zinc Alloy Substrates by AESEC and GD-OES, <b>Suyeon Lee</b>, <b>Alice Stankova</b>, <b>Patrick Chapon</b>, HORIBA Europe Research Center, France; <b>Kayvon Savaadkouei</b>, HORIBA, USA; <b>Junsoo Han</b>, Sorbonne University, France; <b>Dominique Thierry</b>, <b>Dan Persson</b>, Research Institutes of Sweden; <b>Kevin Ogle</b>, <b>Borhan Sultan</b>, Chimie Paris Tech, France</p>                          |  |
| 3:40pm   | <b>BREAK</b>  | <b>BREAK</b>   |  |
| 4:00pm   |   | <p><b>IA2-2-ThA-9</b> DLC Coatings for Space Applications , <b>Konrad Fadenberger</b>, Oerlikon Balzers Coating Germany GmbH, Germany; <b>Roland Holzbauer</b>, Aerospace &amp; Advanced Composites GmbH, Austria; <b>Giulio Feliziani</b>, Oerlikon Balzers Coating Italy S.p.A., Italy; <b>Sebastien Guimond</b>, <b>Martin Drabik</b>, <b>Andreas Stadlberger</b>, <b>Julien Keraudy</b>, Oerlikon Surface Solutions AG Pfaffikon, Liechtenstein; <b>Igor Larranaga</b>, Oerlikon Balzers Coating Spain S.A.U, Spain</p> |  |
| 4:20pm   |   | <p><b>IA2-2-ThA-10</b> Solid Particle Erosion Mechanisms of Organic Matrix Composites With and Without Protective Coatings, <b>Veronika Simova</b>, <b>Etienne Bousser</b>, Polytechnique Montreal, Canada; <b>Marjorie Cavarroc</b>, Safran Tech, France; <b>Juan Manuel Mendez</b>, MDS Coating Technologies, Canada; <b>Ludvik Martinu</b>, <b>Jolanta Ewa Klemberg-Sapieha</b>, Polytechnique Montreal, Canada</p>   |  |
| 4:40pm   |   |  |  |

# Thursday Afternoon, April 23, 2026

| <b>Tribology and Mechanics of Coatings and Surfaces</b><br><b>Room Palm 3-4 - Session MC1-1-ThA</b><br><b>Friction, Wear, Lubrication Effects, &amp; Modeling I</b><br><b>Moderators:</b><br><b>Klaus Boebel, Oerlikon Balzers, Liechtenstein</b> |   |  |
|---|---|--|
| 1:20pm  | <b>MC1-1-ThA-1</b> Tribological Behavior of New and Green Surface Treatments of Anodized Aluminum Alloys, <i>Marc Schmittbuhl</i> , Ecole Centrale de Lyon - LTDS, France; <i>Gilles Auregan, Jacoboni Alex</i> , Safran Landing Systems, France; <i>Joffrey Tardelli</i> , IRT-M2P, France; <b>Marjorie Cavarroc-Weimer</b> , Safran Tech, France; <i>Vincent Fridrici</i> , Ecole Centrale de Lyon - LTDS, France |  |
| 1:40pm  | <b>INVITED: MC1-1-ThA-2</b> Mapping Property Spaces of Combinatorially Deposited Nanocrystalline Alloy Coatings, <i>John Curry, Frank DelRio, Tomas Babuska, Justin Hall, Kyle Dorman, David Adams, Nathan Brown, David Montes de Oca Zapiain, Scotty Bobbitt, Michael Chandross</i> , Sandia National Laboratories, USA; <i>Filippo Mangolini, Camille Edwards</i> , University of Texas at Austin, USA            |  |
| 2:00pm  |   |  |
| 2:20pm  | <b>MC1-1-ThA-4</b> From Green Lubricant to Liquid Precursor for Hard, Multi-Functional Coatings, <b>Mohammad Eskandari (Student)</b> , <i>Diana Berman, Ali Zayaan Macknojia</i> , University of North Texas, USA   |  |
| 2:40pm  | <b>INVITED: MC1-1-ThA-5</b> Promise and Pitfalls of Tribological Coatings in Electric Vehicle Applications, <b>Ali Erdemir</b> , <i>Gugyeong Sung, Seungjoo Lee, Merve Komurlu, Henry Papesh, Cagatay Yelkarasi</i> , Texas A&M University, USA; <i>Leonardo Farfan</i> , Tecnologico de Monterrey, Mexico  |  |
| 3:00pm  |   |  |
| 3:20pm  | <b>MC1-1-ThA-7</b> Behavior of Nb-Doped Molybdenum Disulfide Coatings Under Electrified Tribological Tests, <i>Miguel Rubira Danelon</i> , University of São Paulo, Brazil; <i>Newton Kiyoshi Fukumasu</i> , Institute of Technological Research, Brazil; <b>Roberto Martins de Souza</b> , <i>André Paulo Tschiptschin</i> , University of São Paulo, Brazil   |  |
| 3:40pm  | <b>BREAK</b>  |  |
| 4:00pm  | <b>MC1-1-ThA-9</b> Calibrated Friction Measurements Using a New Interferometric Atomic Force Microscope, <b>Joel Lefever</b> , <i>Aleksander Labuda, Roger Proksch</i> , Oxford Instruments, USA  |  |
| 4:20pm  | <b>INVITED: MC1-1-ThA-10</b> Effects of Mo–N–Cu Doping on Microstructural, Mechanical, and Tribological Properties of Thick Ta–C Coatings for Cryogenic Applications, <b>Young-Jun Jang</b> , <i>Jae-Il Kim, Ji-Woong Jang, Jongkuk Kim</i> , Korea Institute of Materials Science (KIMS), Republic of Korea  |  |
| 4:40pm  |   |  |

## Advanced Characterization, Modelling and Data Science for Coatings and Thin Films

### Room Town & Country A - Session CM-ThP

## Advanced Characterization, Modelling and Data Science for Coatings and Thin Films Poster Session

5:00 – 7:00pm

**CM-ThP-1** Artificial Intelligence for Predictive Design of Semiconducting Thin Films: Bandgap, Conductivity, and Activation Energy in Se–Sb–In Alloys, *Maninder Kamboj, Farah Mohammadi*, Toronto Metropolitan University, Canada

**CM-ThP-3** Active-Learning M3GNet-Accelerated Multiscale Pipeline for ALD/ALE Thin-Film Descriptors, *Fedor Goumans, Nestor Aguirre, Nicolas Onofrio*, Software for Chemistry & Materials, Netherlands

**CM-ThP-4** Elastic Anisotropy and Stiffness Tensor Determination in TiN Thin Films, *Rainer Hahn*, CDL-SEC, TU Wien, Austria; *Rebecca Janknecht*, Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland; *Nikola Koutna*, TU Wien, Institute of Materials Science and Technology, Austria; *Anna Hirle*, CDL-SEC, TU Wien, Austria; *Anton Davydok*, Helmholtz-Zentrum Hereon, Germany; *Klaus Boebel*, Oerlikon Surface Solutions AG, Liechtenstein; *Szilard Kolozsvári, Peter Polcik*, Plansee Composite Materials GmbH, Germany; *Christina Krywka*, Helmholtz-Zentrum Hereon, Germany; *Paul H. Mayrhofer*, TU Wien, Institute of Materials Science and Technology, Austria; *Helmut Riedl*, CDL-SEC, TU Wien, Austria

**CM-ThP-5** Hypulse XPSFemtoSecond Laser Ablation XPS Depth Profiling, *James Lallo*, Thermo Fisher Scientific, USA; *Tim Nunney, Robin Simposn*, Thermo Fisher Scientific, UK; *Mark Baker, Charlie Chandler*, University of Surrey, UK

**CM-ThP-6** Conditions for the Atom-by-Atom Growth of Maximum-Quality Thin Films, with a Focus on Ti–Al–N, *Jiri Houska, Hassan Ataaitte*, University of West Bohemia, Czechia

**CM-ThP-7** AI-Optimized Afterglow Functional Coatings for Enhanced Plant-Based Carbon Capture, *Yu-An Chen, Amit Kumar Sharma*, National Cheng Kung University, Taiwan; *Fei Pan*, ETH Zürich, Switzerland; *Yen-Hsun Su*, National Cheng Kung University, Taiwan

**CM-ThP-8** Development of an Electrical Waste Plastic Sorting System Using Laser-Induced Breakdown Spectroscopy and Convolutional Neural Networks, *Guan Wen Chen (Student)*, *Tsung-Yu Huang*, Department of Materials Engineering, Ming Chi University of Technology, Taiwan

**CM-ThP-9** Corrosion Resistance of Titanium Boride (TiB<sub>x</sub>) Layers Formed on the Biomedical Ti6Al4V Alloy in Simulated Body Fluid, *Tania Cabrera-Yacuta (Student)*, Instituto Politécnico Nacional, Mexico; *J. Pérez-Alvárez, C. D. Rivera-Tello*, Universidad de Guadalajara, Mexico; *G. A. Rodríguez-Castro*, Instituto Politécnico Nacional, Mexico; *J.G. Quiñones-Galván*, Universidad de Guadalajara, Mexico; *A. Meneses-Amador, H. Martínez-Gutiérrez*, Instituto Politécnico Nacional, Mexico

**CM-ThP-10** Rapid Thickness Quantification of Coating Layers Using PLSR and Parallel Rietveld Analysis of XRD Data, *Thomas Degen, Mustapha Sadki, Nicholas Norberg*, Malvern Panalytical, Netherlands; *Namsoo Shin*, Deep Solution Inc., Korea (Democratic People's Republic of)

**CM-ThP-11** Investigation of Epitaxial Silicon Growth Mechanisms from Chlorosilane–H<sub>2</sub> Systems on Si(100) Substrates, *Seokmin Oh (Student)*, *Dongmin Yoon, Seonwoong Jung, Hyerin Shin, Jungwoo Kim, Dae-Hong Ko*, Yonsei University, Republic of Korea

**CM-ThP-12** Machine-Learning Based Prediction of Carbon Quantum Dot Fluorescent Properties Using Molecular Representations, *Yehyeon Shin (Student)*, *Jong-souk Yeo, Chae-won Lee, Jong-Seok Lee*, Yonsei University, Korea

**CM-ThP-13** Structural and Morphological Assessment of a Si/SiO<sub>2</sub>/Cr/Au Thin-Film Electrode Stack via Correlative AFM with SEM & EDX, *Satyam Ladva*, Quantum Design, USA

## Functional Thin Films and Surfaces

### Room Town & Country A - Session MB-ThP

## Functional Thin Films and Surfaces Poster Session

5:00 – 7:00pm

**MB-ThP-2** Scalable Surface Engineering of PDMS for Uniform Inkjet-Printed Silver Patterns, *Hsuan-Ling Kao*, Chang Gung University, Taiwan; *Li-Chun Chang*, Ming Chi University of Technology, Taiwan; *Min-Hsuan Lu*, Chang Gung University, Taiwan

**MB-ThP-4** Spatially Resolved Molecular Arrangement on the Surface of PEDOT:PSS Film via Laser Scanning, *Chanwoo Kim, Habeom Lee*, Pusan National University, Republic of Korea

**MB-ThP-5** Influence of the Si Alloying on the Growth Stability and Electrical Properties of AlN Thin Films, *Norma Salvadores Farran (Student)*, *Tomasz Wojcik*, TU Wien, Austria; *Astrid Gies, Jürgen Ramm, Klaus Böbel*, Oerlikon Balzers, Liechtenstein; *Szilard Kolozsvári, Peter Polcik*, Plansee Composite Materials, Austria; *Tobias Huber, Jürgen Fleig, Helmut Riedl*, TU Wien, Austria

**MB-ThP-8** Different Morphologies of Gallium Oxide Thin Films Fabricated by Liquid-Target Reactive DC-Pulsed Magnetron Sputtering, *Jan Koloros (Student)*, *Petr Novák, Sayed Alireza Ataie, Jiří Rezek, Radomír Čerstvý, Pavel Baroch*, University of West Bohemia in Pilsen, Czechia

**MB-ThP-10** 3-Layer Polymer Film Composites Based on PE Recyclates, *Marcin Bilewicz, Tomasz Tanski*, SILESIA UNIVERSITY OF TECHNOLOGY, Poland; *Tomasz Gliniski*, Sinoma, Poland

**MB-ThP-11** Plasma-Polymer Fluorocarbon Based High Sensitivity Surface Enhanced Raman Spectroscopy Application, *Jimin Han, Sang-Jin Lee*, Chungbuk National University, Republic of Korea

**MB-ThP-12** Radio Frequency Magnetron Sputtered CdS-Plasma Polymerized Fluorocarbon Nanocomposite Thin Films : Structural Properties and Electrochemical Performance for Lithium-Ion Battery Anodes, *Joowon Lee (Student)*, *Sang-Jin Lee*, Chungbuk National University School of Semiconductor Engineering, Republic of Korea

**MB-ThP-13** Synthesis of Bismuth Molybdate Photocatalytic Films by Reactive Magnetron Sputtering for the Photo-Discoloration of Carmine Indigo Dye, *Ricardo González-Campuzano*, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México; *David E. Martínez-Lara*, Escuela Nacional Preparatoria No.7 “Ezequiel A. Chávez”, Universidad Nacional Autónoma de México; *Agileo Hernández-Gordillo, Monserrat Bizarro-Sordo, Sandra E. Rodil-Posada*, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México

**MB-ThP-14** Microstructure and Electrochemical Behavior of Aps Coatings Deposited on Agricultural Plows, *Corneliu Munteanu, Bogdan Istrate*, “Gheorghe Asachi” Technical University of Iasi, Romania; *Boris Nazar*, Technical University of Moldova; *Fabian Cezar Lupu, Ramona Cimpoesu, Gelu Ianus*, “Gheorghe Asachi” Technical University of Iasi, Romania; *Teodor Marian*, Technical University of Moldova

**MB-ThP-15** Influence of Microstructure on Dealloying Kinetics of Nanoporous Thin Films, *Ezgi Hatipoğlu*, Max Planck Institute for Sustainable Materials, Germany; *Ayman El-Zoka*, Imperial College London, UK, Germany; *Yujun Zhao*, Max Planck Institute for Sustainable Materials, Germany; *Stanislav Mraz, Jochen Schneider*, RWTH Aachen University, Germany; *Baptiste Gault, Aparna Saksena*, Max Planck Institute for Sustainable Materials, Germany

**MB-ThP-18** Ion-Beam Assisted Deposition of Oxide Semiconductor Thin Films for Optical Devices, *Pin Yao Hsiang (Student)*, Chang Gung University, Taiwan; *Tsung Yu Huang*, Ming Chi University of Technology, Taiwan, Republic of China

**MB-ThP-19** Insulation Coatings for Temperature Sensors in Molding Tools, *Martin Welters, Rainer Cremer*, KCS Europe GmbH, Germany

**MB-ThP-20** Corrosion-Inhibiting, Antibacterial Coatings for Soft Tissue Anchors, *Simon Cremer, Rainer Cremer*, KCS Europe GmbH, Germany

**MB-ThP-21** Partial Laser Ablation in PVD Multilayers for Multicolored and Nanostructured Surfaces, *Raphael André*, Berner Fach Hochschule, Switzerland; *Christian Petitot*, Université Marie et Louis Pasteur, UTBM, CNRS, Institut FEMTO-ST (UMR 6174), France; *Rainer Kling, Sylvain Le coulter*, Berner Fach Hochschule (BFH), Switzerland; *Pascal briois*, Université Marie et Louis Pasteur, UTBM, CNRS, Institut FEMTO-ST (UMR 6174), France

**MB-ThP-23** Numerical Modelling for Optimized Experimental Design in Vernier Ellipsometry Sensing, *Kawshik Shikder, Zhang Yun, Md Rashedul Huque, Yishu Foo, May Thawda Phoo, Yee Man Kwong, Juan Antonio Zapien*, City University of Hong Kong

**MB-ThP-24** Selective Etching of Boron Doped Si1-XGeX Epitaxial Layers for Vertically Stacked Memory Device, *Joosung Kang (Student)*, *Dongmin Yoon, Seonwoong Jung, Dae-hong Ko*, Yonsei University, Republic of Korea

## Plasma and Vapor Deposition Processes

### Room Town & Country A - Session PP-ThP

## Plasma and Vapor Deposition Processes Poster Session

5:00 – 7:00pm

**PP-ThP-3** Predictive Modelling of Magnetron Sputtering: Bridging Computational and Experimental Approaches for Metallic Glass Thin Films, *Jaroslav Zenisek, Tereza Schmidtova*, Masaryk University, Czechia; *Antonin Kubicek, Vjaceslav Sochora*, SHM, Czechia; *Pavel Soucek*, Masaryk University, Czechia

**PP-ThP-4** How to Predict the Deposition Rate During Reactive Sputtering Using an One-Volume Reference Resource?, *Diederik Depla*, Ghent University, Belgium

**PP-ThP-5** Properties and Behavior of Infrared Materials : Towards High Efficiency and High Durability Antireflection Coating, *Manon Dewynter (Student)*, *Fabien Paumier*, *Éric Le-Bourhis*, *Cyril Dupeyrat*, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France

**PP-ThP-6** Plasma Research Reactor to Validate Nanocalorimetry as a Prospective Plasma Diagnostics Technique, *Carles Corbella*, National Institute of Standards and Technology (NIST)/ University of Maryland, College Park, USA; *Feng Yi*, *Andrei Kolmakov*, National Institute of Standards and Technology (NIST), USA

**PP-ThP-8** Ion Acceleration on Insulating Substrates: Synchronized Floating Potential HiPIMS for AlN and AlScN Thin Film Growth, *Oleksandr Pshyk*, *Jyotish Patidar*, *Kerstin Thorwarth*, *Lars Sommerhäuser*, *Sebastain Sial*, Empa - Swiss Federal Laboratories for Materials Science and Technology, Switzerland

**PP-ThP-9** Effect of Si and B Incorporation in TiCN-based Thin Film on Physical Properties by Direct Current Plasma Chemical Vapor Deposition, *Rizu Kurogi (Student)*, *Takeyasu Saito*, *Noki Okamoto*, *Mika Kawamoto*, Osaka Metropolitan University, Japan

**PP-ThP-11** Magnetron Discharge Modelling using SAPIC, a 2D PIC-MCC AMR Code, *Adrien REVEL*, *Tiberiu MINEA*, University of Paris-Saclay, LPGP, France

**PP-ThP-12** Calorimetric and Electrostatic Probe Diagnostics of a Gas Aggregation Source Plasma, *Caroline Adam (Student)*, *Viktor Schneider*, *Jessica Niemann*, Kiel University, Germany; *Daniil Nikitin*, *Jan Hanuš*, *Ronaldo Katuta*, *Iqra Whid*, *Veronika Červenková*, *Andrey Shukurov*, *Hynek Biederman*, Charles University, Czech Republic; *Holger Kersten*, Kiel University, Germany

**PP-ThP-13** Comparative Study of High-Order Silanes for Low-Temperature SiGe Epitaxy in Ultra-High Vacuum Chemical Vapor Deposition, *Dongmin Yoon*, 50, Yonsei-ro, Seodaemun-gu, Republic of Korea; *Hyerin Shin*, *Seokmin Oh*, *Seonwoong Jung*, *Dae-Hong Ko*, Yonsei University, Korea

**PP-ThP-14** Reaction Characteristics of Germanium Tetrabromide on Si1-XGeX(B) and Si(P) Films Using Ultra-High Vacuum Chemical Vapor Deposition System, *Hyerin Shin (Student)*, *Dongmin Yoon*, *Seokmin Oh*, *Dae-hong Ko*, Yonsei University, Korea

**PP-ThP-15** Thickness-Dependent Electrical Properties of MoN Films Grown by Thermal ALD Using MoO<sub>2</sub>Cl<sub>2</sub>, *So Young Kim (Student)*, Yonsei University, Republic of Korea; *Tai-su Park*, Justem Corporation Ltd., Republic of Korea; *Dae-Hong Ko*, Yonsei University, Republic of Korea

**PP-ThP-16** Plasma-enhanced Atomic Layer Deposition of Smooth Layers of Tungsten Nitride and Boron Nitride for Optical Application, *Alan Uy*, University of Maryland College Park, USA; *Maxim Markevitch*, NASA, USA

**PP2-3-FrM-4** Electrocatalytic Performance of AlCrCoNiFeX (X = C, O) High Entropy Alloy Films for Oxygen and Hydrogen Evolution Reactions, *Amna Waheed*, Ming Chi University of Technology, Taiwan; *Bih-Show Lou*, Chang Gung University, Taiwan; *Jyh-Wei Lee*, *Krishnan Tiwari*, Ming Chi University of Technology, Taiwan

## Protective and High-temperature Coatings

### Room Town & Country A - Session MA-ThP

#### Protective and High-temperature Coatings Poster Session

5:00 – 7:00pm

**MA-ThP-1** Multienvironment Tribological Assessment of TiB<sub>2</sub>:h-BN:a-C Coatings Deposited on 316L Stainless Steel, *Ihsan Efeoglu*, *Gokhan Gulten*, *Banu Yaylali*, *Mustafa Yesilyurt*, *Ali Emre*, *Yasar Totik*, Atatürk University, Turkey; *Justyna Kulczyk-Malecka*, *Peter Kelly*, Manchester Metropolitan University, UK

**MA-ThP-2** Understanding Solid Particle Erosion in Multicomponent Ti<sub>1-x</sub>Al<sub>x</sub>N Based Coatings Using Synchrotron Nanodiffraction, *Anna Hirle (Student)*, *Rainer Hahn*, *Philip Kutrowatz*, *Tomasz Wojcik*, Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Vienna, Austria; *Anton Davydok*, Helmholtz-Zentrum Hereon, Institute of Materials Physics, Hamburg, Germany; *Szilard Kolozsvári*, *Peter Polcik*, Plansee Composite Materials GmbH, Lechbruck am See, Germany; *Anders.O Eriksson*, *Carmen Jerg*, *Klaus Boebel*, Oerlikon Balzers, Oerlikon Surface Solutions AG, Balzers, Liechtenstein; *Helmut Riedl*, Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Vienna, Austria; Institute of Materials Science and Technology, TU Wien, Vienna, Austria

**MA-ThP-4** Comparative Analysis of the Mechanical Properties of Layers Obtained in Three Different Steels by Atomic Diffusion of Boron., *Enrique Hernández Sánchez*, *Luz Alejandra Linares Duarte (Student)*, *Diego Hernández Domínguez*, *Yesenia Sánchez Fuentes*, Instituto Politécnico Nacional, Mexico; *Raúl Tadeo Rosas*, Universidad Autónoma de Coahuila, Mexico; *José Guadalupe Miranda Hernández*, Centro Universitario UAEM Valle de México; *Rafael Carrera Espinoza*, *Melvyn Alvarez Vera*, Universidad de las Américas Puebla, Mexico; *Jonathan Jorge Ruiz Domínguez*, Instituto Mexicano de la Propiedad Industrial, Mexico

**MA-ThP-5** Reactively Sputtered High-Entropy Metal-Sublattice Carbide Thin Films Based on Al-Cr-Nb-Ta-Ti, *Thomas Astecker (Student)*, TU Wien, Austria; *Peter Polcik*, Plansee SE, Austria; *Alexander Kirnbauer*, *Paul Heinz Mayrhofer*, TU Wien, Austria

**MA-ThP-7** Synergistic Alloying Effects of Si and Y in Cr-Mn-Mo-N Thin Films: A Combined Experimental and DFT Study, *Christian Gutschka (Student)*, TU Wien, Austria; *Lukáš Vrána*, *Matej Fekete*, Masaryk University, Czechia; *Zsolt Czigány*, Hungarian Academy of Sciences, Hungary; *Tatiana Pitoňáková*, Masaryk University, Czechia; *Katalin Balázi*, Hungarian Academy of Sciences, Hungary; *Pavel Souček*, Masaryk University, Czechia; *Helmut Riedl-Tragenreif*, TU Wien, Austria

**MA-ThP-9** Thermal Stability and Mechanical Performance of Si-Modified High-Entropy (Al,Mo,Ta,V,W)C Coatings, *Muhammad Awais Altaf*, *Balint Istvan Hajas (Student)*, TU Wien, Institute of Materials Science and Technology, Austria; *Szilard Kolozsvári*, Plansee Composite Materials GmbH, Germany; *Tomasz Wojcik*, *Alexander Kirnbauer*, *Paul Heinz Mayrhofer*, TU Wien, Institute of Materials Science and Technology, Austria

**MA-ThP-10** Influence of the Ti/Al Ratio on the Performance of Ti-Al-N Coated Tools in the Machining of Stainless Steel 304, *Felipe Batista dos Anjos (Student)*, *Carlos Bernardo Gouvêa Pereira*, *Carlos Augusto Henning Laurindo*, *Fred Lacerda Amorim*, *Michelle Sostag Meruvia*, *Paulo Cesar Soares Junior*, *Ricardo Diego Torres*, Pontifícia Universidade Católica do Paraná, Brazil

**MA-ThP-13** Nitrogen-Dependent Structural and Mechanical Properties Evolution of AlCrNbSiTiN<sub>x</sub> High Entropy Alloy Nitride Coatings Deposited by HiPIMS, *Sheng-Jui Tseng*, National Taipei University of Technology, Taiwan; *Jyh-Wei Lee*, Ming Chi University of Science and Technology, Taiwan; *Yung-Chin Yung*, National Taipei University of Technology, Taiwan; *Bih-Show Lou*, Chang Gung University, Taiwan; *Chia-Lin Li*, Ming Chi University of Science and Technology, Taiwan

## Surface Engineering - Applied Research and Industrial Applications

### Room Town & Country A - Session IA-ThP

#### Surface Engineering – Applied Research and Industrial Applications Poster Session

5:00 – 7:00pm

**IA-ThP-2** Interface-Engineered Grain Boundary Diffusion for Enhanced Coercivity, Corrosion Resistance, and Thermal Stability in Thick NdFeB Magnets with Efficient Rare-Earth Utilization, *Ching-Chien Huang*, National Kaohsiung University of Science and Technology, Taiwan

**IA-ThP-3** Advanced Coating Solutions for High-Pressure Injectors under Bioethanol Fuel Conditions, *Sung Chul Cha*, Hyundai Motor Group- Hyundai Kefico, Republic of Korea; *Jongkuk Kim*, KIMS, Republic of Korea; *Kyoungh Il Moon*, *Hae Won Yoon*, *Gi-Hoon Kwon*, KITECH, Republic of Korea; *Chang Ha Park*, *Dong Sik Kim*, ATF, Republic of Korea

**IA-ThP-4** The Influence of Long-Term Aging in Air Atmosphere on the Precipitation Process of Inconel 740H Alloy, *Adam Zielinski*, *Hanna Purzynska*, *Radoslaw Swadzba*, SIEC BADAWCZA LUKASIEWICZ - GORNOSLASKI INSTYTUT TECHNOLOGICZNY, Poland

**IA-ThP-5** Nanolayers Based on Ti/TiN, Zr/ZrN, and Cr/CrN in Multilayer PVD Systems: Tribological and Micro-impact Response, *Daniel Tobota*, Łukasiewicz Research Network – Krakow Institute of Technology, Poland; *Ben D. Beake*, Micro Materials Ltd., UK; *Lukasz Maj*, Institute of Metallurgy and Materials Science of Polish Academy of Sciences, Poland; *Tomasz Liskiewicz*, Manchester Metropolitan University, UK; *Cezary Drenda*, AGH University of Krakow, Poland

**IA-ThP-6** Cathodic-Driven Alkalization and Interfacial Reaction Competition in Cathodic-Excess MAO of AZ31B Magnesium Alloy, *Shih-Yen Huang (Student)*, *Yueh-Lien Lee*, National Taiwan University, Taiwan

**IA-ThP-7** In-Situ Diffusion-Induced Micro-Carburization of SAE 4140 Steel: Tailoring Surface Integrity and Torsional Resistance via Controlled-Atmosphere Heat Treatment, *Te-Kang Tsao*, Dep. of Mechanical Engineering, National Kaohsiung University of Science and Technology, Taiwan; *Wen-Hao Chiu*, Department of Mechanical Engineering, National Kaohsiung University of Science and Technology, Taiwan

**IA-ThP-8** Influence of the Parameters of Producing Oxide Coatings on Aluminum Tapes on Their Structure and Insulating Properties, **Aleksander Iwaniak**, *Andrzej Posmyk, Łukasz Bąk, Adrian Krysiak*, Silesian University of Technology, Poland

## Surface Engineering of Biomaterials, Devices and Regenerative Materials: Health, Food, and Agriculture Applications

### Room Town & Country A - Session MD-ThP

## Surface Engineering of Biomaterials, Devices and Regenerative Materials: Health Food, and Agriculture Applications Poster Session

5:00 – 7:00pm

**MD-ThP-1** Eco-Friendly Synthesis of Graphene Intercalation Material for Highly Sensitive Maldi-MS Bioanalysis, **Yao-Tsung Hsu**, Graduate Institute of Medical Sciences, College of Medicine, Taipei Medical University, Taiwan; **Shih-Min Wang**, National Atomic Research Institute, Taiwan; **Fu-Der Mai**, Department of Biochemistry and Molecular Cell Biology, School of Medicine, College of Medicine, Taipei Medical University, Taiwan

**MD-ThP-2** Study of the Antimicrobial and Osteoinductive Properties of Polymeric Nanocomposite Membranes, **Lucia Sofia Flores-Hidalgo (Student)**, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México; **Phaedra S. Silva-Bermúdez**, Unidad de Ingeniería de Tejidos, Terapia Celular y Medicina Regenerativa; Instituto Nacional de Rehabilitación Luis Guillermo Ibarra Ibarra, México; **Gina Prado-Prone**, Laboratorio de Biointerfases, DEPEI, Facultad de Odontología, Universidad Nacional Autónoma de México, México; **Montserrat Ramirez-Arellano**, Facultad de Medicina, Universidad Nacional Autónoma de México, México; **Sandra. E Rodil**, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México

**MD-ThP-3** Understanding the Influence of Sn and Nb on Morphology, Sustainable Synthesis of Calcium Phosphate 1d Nanostructures via Electrospinning for Advanced Functional Applications, **Yao Mawuena Tsekpo**, *Weronika Smok*, Faculty of Mechanical Engineering, Silesian University of Technology, Poland; **Adrian Adrian Radon**, Łukasiewicz Research Network – Institute of Non-Ferrous Metals, Poland; **Pawel Jarka**, **Tomasz Tanski**, Faculty of Mechanical Engineering, Silesian University of Technology, Poland

**MD-ThP-4** Advancing Surface Engineering of Additively Manufactured Dental Implants by HiPIMS  $\beta$ -Ti Coatings, **Juan Carlos Sanchez-Lopez**, Instituto de Ciencia de Materiales de Sevilla (CSIC-US), Spain; **Amanda Robau-Porra**, Universidad de Concepción-Chile; **Marleny Rodríguez-Albelo**, Universidad de Sevilla, Spain; **Celia Garcia-Hernandez**, **Cristina Garcia-Cabezon**, Universidad de Valladolid, Spain; **Jesús Eduardo Gonzalez-Ruiz**, Universidad de la Habana, Cuba; **Yadir Torres**, Universidad de Sevilla, Spain

**MD-ThP-5** Electrochemical Characterization of Copper-Coated Commercial Ti6Al4V Alloy for Advanced Biomedical Applications, **Bryan Angel Zárate Verdusco (Student)**, Universidad Michoacana de San Nicolás de Hidalgo, México; **Victor Manuel Solorio García**, **Miguel Ivan Dávila Perez**, Tecnológico Nacional de México/ Instituto Tecnológico de Morelia, México; **Roberto Guerra González**, Universidad Michoacana de San Nicolás de Hidalgo, México; **Héctor Javier Vergara Hernández**, Tecnológico Nacional de México/ Instituto Tecnológico de Morelia, México; **Julio César Villalobos Brito**, Tecnológico Nacional de México/ Instituto Tecnológico de Morelia, México

**MD-ThP-6** TiO<sub>x</sub> Nanocoating as Antimicrobial for Personal Protective Equipment, **Lorena Reyes-Carmona (Student)**, **Sandra Rodil**, UNAM, México; **Omar Sepúlveda-Robles**, IMSS, México; **Gina Prado-Prone**, **Argelia Almaguer-Flores**, UNAM, México

**MD-ThP-10** Investigating the Corrosion Behavior of Sol Gel and PEO Coatings on Magnesium for Biomedical Applications, **Vinod Prabhakar**, **Avirup Sinha (Student)**, **Sujoy Ghosh**, University of Illinois at Chicago, USA; **Hamdy Ibrahim**, Kennesaw State University, USA; **Mathew T. Mathew**, University of Illinois College of Medicine at Rockford and Rush University Medical Center, USA

**MD-ThP-11** Antimicrobial Potential of Silver-Copper Nanocoatings Deposited on Medical and Dental Polymeric Materials, **Argelia Almaguer-Flores**, **Lorena Reyes-Carmona**, **David E. Martínez-Lara**, **Gina Prado-Prone**, **Sandra E. Rodil**, UNAM, México

**MD-ThP-12** Effects of the Temperature and Target Power on Microstructure and Electrochemical Properties of Fe-Mn-C-Zn Coatings via Magnetron Sputtering Co-Deposition, **Xinna Zhu**, Department of Engineering “Enzo Ferrari” University of Modena and Reggio Emilia, Modena, Italy; **Carlo Paternoster**, Laboratory for Biomaterials and Bioengineering, (CRC-Tier I), Dept Min-Met-Materials Eng., & Regenerative Medicine, CHU de Quebec, Laval University, Québec, QC, Canada; **Andrea Gatto**, Department of Engineering “Enzo Ferrari” University of Modena and Reggio Emilia, Modena, Italy; **Carlos Henrique Michelin Beraldo**, Laboratory for Biomaterials and Bioengineering, (CRC-Tier I), Dept Min-Met-Materials Eng., & Regenerative Medicine, CHU de Quebec, Laval University, Québec, QC, Canada; **Silvio Defanti**, Department of Engineering “Enzo Ferrari” University of Modena and Reggio Emilia, Modena, Italy; **Paolo Mengucci**, **Gianni Barucca**, Department SIMAU, Università Politecnica delle Marche, Ancona, Italy; **Helton José Wigger**, Laboratory for Biomaterials and Bioengineering (LBB-BPK), Associação de Ensino, Pesquisa e Extensão BIOPARK, Toledo, Brazil; **Andranik Sarkissian**, Plasmionique Inc., Varennes, QC, Canada; **Diego Mantovani**, Laboratory for Biomaterials and Bioengineering, (CRC-Tier I), Dept Min-Met-Materials Eng., & Regenerative Medicine, CHU de Quebec, Laval University, Québec, QC, Canada

**MD-ThP-17** On the Adhesion of a-C:H Coatings Deposited by PECVD on PDMS for Biomedical Applications, **Lidi Astrid Yáñez-Hernández**, **Linda Victoria Bonilla-Gameros**, **Pascale Chevallier**, Université Laval, Canada; **Laurent Houssiau**, University of Namur, Belgium; **Andranik Sarkissian**, Plasmionique Inc., Canada; **Diego Mantovani**, Université Laval, Canada

**MD-ThP-18** An Asymmetric Capillary-Driven Microtiter Platform Enabling Centrifuge-Free Point-of-Care Diagnostics, **KangKug Lee**, **Yasmine Jones**, **Anastasia Smith**, Wilberforce University, USA

**MD-ThP-20** Effect of Current Density Variation on Cu-Incorporated Mao Coatings on Ti-30Nb-5mo Alloy, **Giovana Collombaro Cardoso**, Universidade Estadual Paulista, UNESP, Bauru, Brazil; **Gustavo da Silva Diniz**, Universidade Estadual Paulista, UNESP, Bauru, Brazil; **Carlos Roberto Grandini**, Universidade Estadual Paulista, UNESP, Bauru, Brazil

**MD-ThP-21** Influence of Microstructure and Processing Voltage on the Formation and Properties of Coatings Obtained by Micro-Arc Oxidation (MAO) in Ti-25Ta-xNb Alloys, **Fernanda de Freitas Quadros**, Sao Paulo State University (UNESP), Brazil; **Katia Barbaro**, Istituto Zooprofilattico Sperimentale del Lazio e della Toscana, Italy; **Diego Rafael Nespeque Corrêa**, Sao Paulo State University (UNESP), Brazil; **Julietta V. Rau**, Istituto di Struttura della Materia, Consiglio Nazionale delle Ricerche, Italy; **Carlos Roberto Grandini**, Sao Paulo State University (UNESP), Brazil

**MD-ThP-22** Using X-Ray Photoelectron Spectroscopy to Probe Lateral and Depth Distribution of Copper Based Photocatalytic Biocidal Film, **David Surman**, Kratos Analytical Inc, USA; **Jonathan Counsell**, Kratos Analytical Limited, UK; **Heather Yates**, University of Salford, UK

**MD-ThP-23** Surface-Engineered Graphene/PDMS Coatings Reduce Multispecies Uropathogenic Biofilms Under Urine-like Conditions, **Francisca Sousa-Cardoso (Student)**, **Rita Teixeira-Santos**, **Luciana C. Gomes**, **Rita Vieira**, University of Porto, Portugal; **Brian A. Korgel**, University of Texas at Austin, USA; **Olivia S. G. P. Soares**, **Filipe J. Mergulhão**, University of Porto, Portugal

**MD-ThP-24** Flexible Negative Pyramid Microarrays Coated with Ag Nanoparticles for Raman Enhancing Detection, **Ting-Yu Liu**, Ming Chi University of Technology, Taiwan

## Topical Symposium on Sustainable Surface Engineering

### Room Town & Country A - Session TS1-ThP

## Coatings for Batteries and Hydrogen Applications Poster Session

5:00 – 7:00pm

**TS1-ThP-1** Hydrogen Permeation Testing: Electrochemical vs. Pressurized Methods, **Phillip Rückeshäuser (Student)**, TU Wien, Austria; **Szilard Kolozsvari**, **Peter Polcik**, Plansee Composite Materials GmbH, Germany; **Timea Stelzig**, Oerlikon AM Europe GmbH, Germany; **Konrad Fadenberger**, Oerlikon Balzers Coating Germany GmbH, Germany; **Klaus Boebel**, Oerlikon Balzers, Liechtenstein; **Tomasz Wojcik**, **Helmut Riedl**, TU Wien, Austria

**TS1-ThP-2** Towards Defect-Free Laser-Induced Graphene Coating on Copper and Aluminum Foils for Anode-Free Li and Na Metal Batteries, **Aarti Gunjal**, IISER PUNE, India; **Suparna Saha**, TCG-CREST Kolkata, India; **Swati Jadhav**, IISER PUNE, India; **Satishchandra Ogale**, TCG-CREST Kolkatta, India

**TS1-ThP-3** HiPIMS Mo<sub>x</sub>N and Cu-Mo<sub>x</sub>N Thin Films for the Hydrogen Evolution Reaction, *Hung-I Wu*, Department of Electronic Engineering, National Yunlin University of Science and Technology, Taiwan; *Ying-Hsiang Lin*, Department of Materials Science and Engineering, National United University, Taiwan; *Shih-Hung Lin*, Department of Electronic Engineering, National Yunlin University of Science and Technology, Taiwan; *Fan-Bean Wu*, *Chi-Yueh Chang*, Department of Materials Science and Engineering, National United University, Taiwan; *Thi Xuyen Nguyen*, *Ruei-Chi Lin*, *Jyh-Ming Ting*, Department of Materials Science and Engineering, National Cheng Kung University, Taiwan; **Wan-Yu Wu**, Department of Materials Science and Engineering, National United University, Taiwan

**TS1-ThP-4** Hydrogen Barrier Properties of Thin Oxide Films Prepared by Different Methods: Correlations of Thin Film Properties with Hydrogen Permeation Rates, *Dmitry Kalanov*, *Juergen W. Gerlach*, *Patrick C. With*, **Yeliz Unutulmazsoy**, *Ulrike Helmstedt*, Leibniz Inst. of Surface Eng. (IOM), Germany

---

## Topical Symposium on Sustainable Surface Engineering Room Town & Country A - Session TS2-ThP Coatings and Surfaces for Renewable Energy Technology Poster Session 5:00 – 7:00pm

**TS2-ThP-2** Comparative Electrochemical Performance of  $\alpha$ -MnO<sub>2</sub> and  $\delta$ -MnO<sub>2</sub> Coatings for High-Performance Supercapacitor Electrodes, **Eduardo Estrada Movilla (Student)**, *Álvaro Ortíz Pérez*, *Jhonathan Castillo Saenz*, Instituto de Ingeniería, Universidad Autónoma de Baja California, Colombia

---

## Tribology and Mechanics of Coatings and Surfaces Room Town & Country A - Session MC-ThP Tribology and Mechanics of Coatings and Surfaces Poster Session 5:00 – 7:00pm

**MC-ThP-1** Evaluation of Stress Field in a Borided Inconel 718 Superalloy Under Dry Sliding Wear, *Alan Daniel Cantla Pacheco*, *Iván Campos Silva*, Instituto Politécnico Nacional, Mexico; *Arturo Ocampo Ramírez*, Universidad Veracruzana, Mexico; *Daybelis Fernández Valdés*, Tecnológico Nacional de México; **GERMAN ANIBAL RODRIGUEZ CASTRO**, **Felipe Nava Leana**, **ALFONSO MENESES AMADOR**, Instituto Politécnico Nacional, Mexico

**MC-ThP-3** Tribological and Corrosion Performance of Alloy 718 coated with WC/Co Applied by HVOF, **Nathalia Kappaun Vieira (Student)**, PUCPR, Brazil; *Steffen Aicholz*, Oerlikon Balzers, Brazil; *Michelle Sostag Meruvia*, *Paulo Soares*, *Ricardo Diego Torres*, PUCPR, Brazil

**MC-ThP-4** Influence of Coating Thickness and Bias Voltage on Cracking Behavior of TiAlCrN PVD Coating, *Kirsten Bobzin*, **Christian Kalscheuer**, *Wenting Xu*, Surface Engineering Institute - RWTH Aachen University, Germany

**MC-ThP-5** Enhancing Corrosion Resistance and Tribological Performance of Inconel 718 through Plasma Nitriding and CrAlN/DLC Coatings for Oilfield Applications, **Heloísa Scalabrin (Student)**, *Michelle Sostag Meruvia*, *Paulo Soares*, *Ricardo Diego Torres*, Pontifícia Universidade Católica do Paraná (PUC-PR), Brazil

**MC-ThP-6** High Temperature Stability of Different Diamond-Like Carbon Thin Films, **Daniel Pözlberger (Student)**, Institute of Materials Science and Technology, TU Wien, Austria; *Julien Keraudy*, *Klaus Böbel*, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; *Tomasz Wojcik*, *Philip Kutrowatz*, Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Austria; *Carsten Gachot*, Institute of Design Engineering and Product Development, Research Unit Tribology, TU Wien, Austria; *Helmut Riedl*, Institute of Materials Science and Technology, TU Wien, Austria

**MC-ThP-7** The Impact of Nitriding Parameters on the Tribological and Corrosion Behavior of Inconel 718, *Gabriel Queiroz Carara*, *Heloisa Scalabrin*, *Cesar Neitzke*, *Michelle Meruvia*, *Paulo Soares*, **Ricardo Torres**, PUCPR, Brazil

**MC-ThP-9** Effect of Sodium Tungstate on the Wear and Corrosion Behavior of Micro-Arc Oxidation Coatings on AZ31 Magnesium Alloy, **Yueh-Lien Lee**, National Taiwan University, Taiwan

**MC-ThP-10** Advantages of Ultra-High Vacuum Tribology, **Esteban Broitman**, *Sven Kelling*, *Rickmer Kose*, Sentys Inc., USA

**MC-ThP-11** Influence of Boriding Time on the Wear Behavior and Structural Stability of Ti6Al4V Under Simulated Physiological Conditions, **J. A. Nieto-Sosa (Student)**, *M. A. Melo-Pérez*, *I. Arzate-Vázquez*, *L. A. Moreno-Ruiz*, Instituto Politécnico Nacional, Mexico; *E.E. Vera-Cárdenas*, Tecnológico Nacional de México/Instituto Tecnológico de Pachuca, Mexico; *G. A. Rodríguez-Castro*, *J.A. Andraca-Adame*, *Josué Escobar-Hernández*, Instituto Politécnico Nacional, Mexico

**MC-ThP-12** Vapor Deposition Coatings for Hard Chrome Replacement in Advanced Mechanical Components, **Giacomo Bernardelli (Student)**, *Luca Lusvarghi*, *Giovanni Bolelli*, Università degli Studi di Modena e Reggio Emilia, Italy; *Alessio Bassano*, Leonardo S.p.A., Italy

**MC-ThP-14** Temperature-Driven Tribofilm Evolution in Oscillating Sliding Contacts Revealed by Advanced Surface Characterization, *Florian Pape*, Bruker Inc., USA; *Alexander Dulebo*, *Udo Volz*, **Ude D. Hangen**, Bruker Nano GmbH, Germany

# Friday Morning, April 24, 2026

|  |   |  |
|--|---|--|
| <p><b>Plasma and Vapor Deposition Processes</b><br/> <b>Room Palm 1-2 - Session PP2-3-FrM</b><br/> <b>HiPIMS, Pulsed Plasmas, and Energetic Deposition III</b><br/> <b>Moderators: Arutiun P. Ehasarian, Sheffield Hallam University, UK, Tetsushide Shimizu, Tokyo Metropolitan University, Japan</b></p> |   | <p><b>Surface Engineering - Applied Research and Industrial Applications</b><br/> <b>Room Town &amp; Country D - Session IA1-FrM</b><br/> <b>Advances in Application Driven Research and Hybrid Systems, Processes, and Coatings</b><br/> <b>Moderators:</b><br/> <b>Hana Barankova, Uppsala University, Sweden,</b><br/> <b>Ladislav Bardos, Uppsala University, Sweden</b></p> |
| 8:00am   | <p><b>PP2-3-FrM-1</b> Experiments and Modelling of High Power Impulse Magnetron Sputtering Discharges with Metallic Target, <b>Jon Tomas Gudmundsson, Kateryna Barynova</b>, University of Iceland; <b>Martin Rudolph</b>, Leibniz Institute of Surface Engineering (IOM), Germany; <b>Joel Fischer</b>, Linköping University, Sweden; <b>Tetsuhide Shimizu</b>, Tokyo Metropolitan University, Japan; <b>Daniel Lundin</b>, Linköping University, Sweden</p>   | <p><b>IA1-FrM-1</b> Effect of Alumina Coating and Testing Condition on Tribological Behaviors and the Oxidative Potential of Brake Wear Particles, <b>Minh Khoi Phan, Ran Cai, Xueyuan Nie, Jimi Tjong</b>, University of Windsor, Canada; <b>D.T.A. Matthews</b>, University of Twente, Netherlands</p>   |
| 8:20am   | <p><b>INVITED: PP2-3-FrM-2</b> Knowing and Controlling the Dynamic Plasma Potential and Sheath Voltage as Key Elements in Plasma-Based Deposition,<br/> <b>André Anders</b>, Plasma Engineering LLC, USA</p>  | <p><b>INVITED: IA1-FrM-2</b> Memristive Effects in PEO Alumina: Mechanisms and Technological Implications, <b>Aleksey Rogov, Allan Matthews, Aleksey Yerokhin</b>, University of Manchester, UK</p>  |
| 8:40am   |   |  |
| 9:00am   |   | <p><b>INVITED: IA1-FrM-4</b> Advanced Coating Strategies to Combat Friction and Wear in Low-Viscosity Fuel Systems, <b>Eun Cairns</b>, University of North Texas, USA; <b>Satish Dixit, S. Berkebile</b>, Plasma Technology Inc., USA; <b>Diana Berman, Samir M. Aouadi, Andrey A. Voevodin</b>, University of North Texas, USA</p>  |
| 9:20am   | <p><b>PP2-3-FrM-5</b> Superposition of HiPIMS with RF on a Single Magnetron: Generation of High Ion Energies, <b>Caroline Adam (Student), Luka Hansen, Tobias Hahn, Jessica Niemann, Daniel Zuhayra</b>, Kiel University, Germany; <b>Günter Mark, Jonathan Löffler</b>, MELEC GmbH, Germany; <b>Jan Benedikt, Holger Kersten</b>, Kiel University, Germany</p>   |  |
| 9:40am   | <p><b>PP2-3-FrM-6</b> Low-Temperature Synthesis of Ti<sub>2</sub>AC (A = Si or Ge) Max-Based Coatings via Highly Ionized Growth Techniques, <b>Arno Gitschthaler, Philipp Dörflinger, Rainer Hahn</b>, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria; <b>Jürgen Ramm, Klaus Böbel</b>, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; <b>Szilard Kolozsvári, Peter Polcik</b>, Plansee Composite Materials GmbH, Germany; <b>Eleni Ntemou, Daniel Primetzhofer</b>, Department of Physics and Astronomy, Uppsala University, Sweden; <b>Dominik Fuchs, Andreas Limbeck</b>, Institute of Chemical Technologies and Analytics, TU Wien, Austria; <b>Peter Švec</b>, Institute of Physics, Slovak Academy of Sciences, Slovakia; <b>Anton Davydok, Christina Krywka</b>, Institute of Materials Physics, Helmholtz Zentrum Hereon, Germany; <b>Helmut Riedl</b>, Institute of Materials Science and Technology, TU Wien, Austria</p> | <p><b>IA1-FrM-6</b> Cu Grain Engineering and Plating Process Reliability Study for Heterogeneous Integration, <b>Shan-Yuan Wu (Student), Ying-Chao Hsu, Po-Chun Chen, Sheng-Ru Hsiao</b>, National Taipei University of Technology, Taiwan</p>   |
| 10:00am  | <b>BREAK</b>  | <b>BREAK</b>   |
| 10:20am  |   | <p><b>IA1-FrM-8</b> Advanced HiPIMS Coating Equipment for High-Performance Cutting Tools Amid Tungsten Price Increase, <b>Yafen Chen, Wei Zhou</b>, Guangdong Huasheng Nanotechnology, China</p>   |
| 10:40am  |   |  |
| 11:00am  |   |  |
| 11:20am  |   |  |

# Friday Morning, April 24, 2026

| <b>Tribology and Mechanics of Coatings and Surfaces</b><br><b>Room Palm 3-4 - Session MC1-2-FrM</b><br><b>Friction, Wear, Lubrication Effects, &amp; Modeling II</b><br><b>Moderators:</b><br><b>Klaus Boebel, Oerlikon Balzers, Liechtenstein</b> |  | <b>Tribology and Mechanics of Coatings and Surfaces</b><br><b>Room Town &amp; Country B - Session MC3-3-FrM</b><br><b>Tribology of Coatings and Surfaces for Industrial Applications III</b><br><b>Moderators: Osman Eryilmaz, Argonne National Laboratory, Volker Weihnacht, Fraunhofer IWS, Germany</b>  |  |
|--|--|--|--|
| 8:00am   |  | <b>INVITED: MC3-3-FrM-1</b> High-performance ta-C-based coatings for tribological applications deposited by laser-arc technique, <b>Volker Weihnacht, Frank Kaulfuss, Stefan Makowski, Falko Hofmann, Fabian Härtwig, Martin Zawischa, Fraunhofer IWS, Germany</b>   |  |
| 8:20am   | <b>MC1-2-FrM-2</b> Active Friction and Wear Control in a-C:Cr Films: Electrical Current and Polarity Effects on Catalytic Graphitization, <b>Newton K. Fukumasu, Miguel R. Danelon, University of São Paulo, Brazil; Abrar Faiyad, Ashlie Martini, University of California Merced, USA; Cherlio Scandian, Federal University of Espirito Santo, Brazil; Roberto M. Souza, University of São Paulo, Brazil</b> |  |  |
| 8:40am   | <b>MC1-2-FrM-3</b> Tribological Performance of Sputter-Deposited MoS <sub>2</sub> Coatings with Varying Process Gases, <b>Tomas Babuska, Alexander Mings, Steven Larson, John Curry, David Adams, Sandia National Laboratories, USA</b>  | <b>MC3-3-FrM-3</b> The Development of Amorphous-Based Multi-Component Alloys for the Nanocomposite Coatings and their Properties, <b>Kyoung Il Moon, Gi-Hoon Kwon, Hae Won Yoon, Byoungcho Choi, Kyong jun An, Korea Institute of Industrial Technology, Republic of Korea; Sung Chul Cha, Hyundai Motor Group-Hyundai Kefico, Republic of Korea</b> |  |
| 9:00am   | <b>INVITED: MC1-2-FrM-4</b> Effect of Ta Content in ta-C:Ta Coatings on the Machining Performance of Aluminum Alloy, <b>Kosuke Suzuki, Mitsubishi Materials Corporation, Japan; Takayuki Tokoroyama, Ruixi Zhang, Noritsugu Umehara, Nagoya University, Japan; Shun Sato, Kenji Yumoto, Mitsubishi Materials Corporation, Japan</b>  | <b>MC3-3-FrM-4</b> Corrosive Wear Mechanisms and Corrosion Performance of WC-Reinforced Fe–iN625 Coatings Fabricated by Laser Cladding, <b>Yiqi Wang (Student), Northeastern University, China</b>   |  |
| 9:20am   |  | <b>MC3-3-FrM-5</b> Effect of Boriding on the Surface Hardness and Wear Resistance of Low Carbon Steel Fabricated by Wire Arc Additive Manufacturing (WAAM), <b>Abraham Molina-Sanchez (Student), Cesar David Resendiz-Calderon, Leonardo Israel Farfan-Cabrera, Christian Ricardo Cuba-Amesquita, Tecnológico de Monterrey, Mexico</b>               |  |
| 9:40am   |  |  |  |
| 10:00am  | <b>BREAK</b>   | <b>BREAK</b>   |  |
| 10:20am  | <b>MC1-2-FrM-8</b> Effects of Silver Nitrate Additives on the Antibacterial and Corrosion Behaviors of Plasma Electrolytic Oxidized AZ31 Magnesium Alloy, <b>Bo-Xuan Zheng (Student), Chuan-Ming Tseng, Ming Chi University of Technology, Taiwan, Republic of China</b>   | <b>INVITED: MC3-3-FrM-8</b> Ultralow Wear, Conductive Plasma-Enhanced Atomic Layer Deposited Metal Nitrides, <b>Brandon Krick, Florida State University, USA</b>   |  |
| 10:40am  | <b>MC1-2-FrM-9</b> Experimental Investigation of Friction, Wear, and Dielectric Behavior of Hybrid Polymer Nanocomposites for Insulated Bearings with Machine Learning Assisted Optimization, <b>Unnati Joshi, Anand Joshi, Vishal Mehta, Jaivik Pathak, Pranav Rath, Parul University, India</b>  |  |  |
| 11:00am  |  |  |  |
| 11:20am  |  |  |  |
| 11:40am  |  |  |  |

**Bold page numbers indicate presenter**

— A —

A. Korgel, Brian: MD-ThP-23, 36  
 Abadias, Gregory: MA3-3-WeM-10, 21  
 Abegunde, Olayinka: MA3-2-TuA-8, 16; MC3-1-TuM-6, **13**  
 Abrikosov, Igor: CM3-1-MoA-6, **8**  
 Achache, Sofiane: PP1-1-MoM-5, 4  
 ACHACHE, Soufyane: PP2-1-WeM-6, 19  
 Acharya, Bisheswor: PP1-2-MoA-4, **9**  
 Adam, Caroline: PP2-3-FrM-8, **37**; PP-ThP-12, **34**  
 Adams, David: CM3-2-WeM-4, 18; CM3-3-ThA-11, **30**; MC1-1-ThA-2, 32; MC1-2-FrM-3, 38; PP1-1-MoM-1, 4  
 Addamane, Sadhvikas: CM3-2-WeM-4, 18; CM3-3-ThA-11, 30  
 Adelino Ricardo Barão, Valentim: MD2-1-TuA-8, 16  
 Adrian Radon, Adrian: MD-ThP-3, 35  
 Afonso, Conrado: MD1-2-TuM-8, 13  
 Aguirre, Nestor: CM-ThP-3, 33  
 Aguirre, Nestor: CM3-1-MoA-12, 8  
 Ahmed, Ifty: MD2-2-ThM-11, 27  
 Aichholz, Steffen: PP1-2-MoA-11, 9  
 Aicholz, Steffen: MC-ThP-3, 36  
 Ajayan, Pulickel M.: PL-MoM-2, **3**  
 Ajayi, Oyelayo: MC3-1-TuM-4, **13**  
 AKOU, Mohamed: CM2-1-ThM-10, 26  
 Aktaa, Jarir: IUUSTA-WeM-10, 18  
**Alex, Jacoboni: MC1-1-ThA-1, 32**  
 Alfreyder, Markus: CM1-1-TuM-4, 11; TS1-2-MoA-4, 10  
 Alhussein, Akram: PP1-1-MoM-5, 4  
 Almaguer-Flores, Argelia: MD2-1-TuA-3, 16; MD2-2-ThM-10, 27; MD-ThP-11, **35**; MD-ThP-6, 35  
 Altaf, M.A.: MA2-1-TuA-10, 15  
 Altaf, Muhammad Awais: MA-ThP-9, 34  
 Alvarez Vera, Melvyn: MA-ThP-4, 34  
 Amer, Mahetab: MD2-2-ThM-11, 27  
 An, Kyong jun: MC3-3-FrM-5, 38  
 Anders, Andre: PP2-2-WeA-5, 23  
 Anders, André: PP2-3-FrM-2, **37**  
 Andraca-Adame, J.A.: MC-ThP-11, 36  
 André, Raphael: MB-ThP-21, 33  
 Angelov, Milko: IA3-ThM-6, 27  
 Aouadi, Samir: MC3-1-TuM-9, 13  
 Aouadi, Samir M.: IA1-FrM-4, 37; MA1-2-MoA-11, **9**  
 Apolinario, Raira: MD1-2-TuM-8, 13  
 Aquino, Bruno: MD1-2-TuM-8, 13  
 ARAUJO MONSALVO, VICTOR MANUEL: MC2-1-TuA-5, 17  
 Arzate-Vázquez, I.: MC-ThP-11, 36  
 Asenath-Smith, Emily: MC3-1-TuM-6, 13  
 Ashraf, Ali: MB2-3-ThM-11, 26  
 Astecker, Thomas: MA3-3-WeM-11, **21**; MA-ThP-5, **34**  
 Ataalite, Hassan: CM-ThP-6, 33  
 Ataie, Sayed Alireza: MB-ThP-8, 33  
 Audet, Chloé: MD2-2-ThM-13, 27  
 Augusto Henning Laurindo, Carlos: MA-ThP-10, 34  
**Auregan, Gilles: MC1-1-ThA-1, 32**  
 Austin, Drake: MB2-3-ThM-10, 26  
 Aut, Jimmy: MA3-1-TuM-1, 12  
 Avila, Pedro: MA3-2-TuA-8, 16; TS1-2-MoA-3, 10  
 — B —  
 Babuska, Tomas: CM3-2-WeM-4, 18; MC1-1-ThA-2, 32; MC1-2-FrM-3, **38**; PP1-1-MoM-1, 4  
 Bagcivan, Nazlim: IA2-2-ThA-2, **31**

Bagdasarian, Alexa: MD1-2-TuM-5, 13  
 Bağ, Łukasz: IA-ThP-8, 35  
 Baker, Mark: CM1-2-TuA-2, 15; CM-ThP-5, 33  
 Balázs, Katalin: MA-ThP-7, 34  
 Balbaud-Célérier, Fanny: MA3-1-TuM-3, 12  
 Baloukas, Bill: MB1-WeA-3, 23; MB2-3-ThM-3, 26  
 Banerjee, Shaibal: MD1-1-MoM-3, 5  
 Baral, Madhav: MC2-1-TuA-10, 17  
 Barão, Valentim A. R.: MD2-2-ThM-2, **27**  
 Barbaro, Katia: MD-ThP-21, 36  
 Barbot, Jean Francois: TS2-1-WeA-2, 24  
 Barnholt, Daniel: IA3-ThM-10, 27  
 Baroch, Pavel: MB2-1-MoA-2, 8; MB-ThP-8, 33  
 Barros, Helen: TS2-2-ThM-8, 28  
 Barucca, Gianni: MD2-2-ThM-1, 27  
**Barucca, Gianni: MD-ThP-12, 35**  
 Barynova, Kateryna: PP2-3-FrM-1, 37  
 Barz, Jürgen: IA2-1-WeM-5, 21  
 Basaran, Ali: PP1-2-MoA-3, **9**  
 Basaran, Ali C.: MB2-3-ThM-5, 26  
 Bassano, Alessio: MC-ThP-12, 36  
 Batista dos Anjos, Felipe: MA-ThP-10, **34**  
 Batory, Damian: TS1-2-MoA-3, **10**  
 Bayu Aji, Leonardus Bimo: MA3-1-TuM-1, 12; MA3-1-TuM-2, **12**  
 Beake, Ben: IA2-1-WeM-1, **21**; MD1-1-MoM-4, 5  
 Beake, Ben D.: IA-ThP-5, 35  
 Becker, Bernhard: CM1-2-TuA-10, 15  
 Belkaid, Zakaria: PP2-2-WeA-1, 23  
 Bemporad, Edoardo: CM2-1-ThM-8, **26**  
 Benchea, Marcelin: CM2-1-ThM-12, 26  
 Benedikt, Jan: PP2-3-FrM-8, 37  
 Beraldo, Carlos Henrique Michelin: MD2-2-ThM-3, 27  
 Berger, Lutz-Michael: IA3-ThM-13, 27  
**Bergmann, Benjamin: PP4-ThA-5, 31**  
 Berkebile, S.: IA1-FrM-4, 37  
 Berkebile, Stephan: MC3-1-TuM-9, 13  
 Berman, Diana: IA1-FrM-10, 26; IA1-FrM-4, 37; MC1-1-ThA-4, 32; MC3-1-TuM-9, 13  
 Bernardelli, Giacomo: MC-ThP-12, **36**  
 Bernardo Gouvêa Pereira, Carlos: MA-ThP-10, 34  
 Bettoni Ortega, Leandro: PP1-2-MoA-11, **9**  
 Beyerlein, Irene: CM3-2-WeM-3, 18  
 Bian, Wenjuan: PP1-2-MoA-4, 9  
 Bichler, Adam: IUUSTA-WeM-10, 18  
 Biederman, Hynek: PP-ThP-12, 34  
 Biermann, Dirk: IA3-ThM-1, 27  
 Bih-Show, Lou: TS1-2-MoA-9, 10  
 Bilewicz, Marcin: MB-ThP-10, **33**  
 Birch, Jens: MA2-1-TuA-9, 15  
 Bislin, Kenny: MC3-1-TuM-3, 13  
 Bizarro, Monserrat: MB1-WeA-6, **23**  
 Bizarro-Sordo, Monserrat: MB-ThP-13, **33**  
 Bobbitt, Scotty: MC1-1-ThA-2, 32  
 Böbel, Klaus: MB2-1-MoA-6, 8; MB-ThP-5, 33; MC-ThP-6, 36; PP2-3-FrM-6, 37  
**Bobzin, Kirsten: MC-ThP-4, 36; PP4-ThA-5, 31**  
 Bocklund, Brandon: MA3-1-TuM-1, 12  
 Boebel, Klaus: CM-ThP-4, 33; MA1-2-MoA-1, 9; MA-ThP-2, 34; MD2-2-ThM-8, 27; TS1-1-MoM-5, 6; TS1-ThP-1, 36  
 Bohley, Martin: MC3-1-TuM-3, 13  
 Bolelli, Giovanni: MC-ThP-12, 36  
 Bolvardi, H.: MA2-2-WeM-6, 19  
 Bolz, Stephan: PP1-1-MoM-2, **4**  
 Bonilla-Gameros, Linda Victoria: MD-ThP-17, 35  
 Borges, Maria Helena R.: MD2-2-ThM-2, 27

Botros, Anthony: CM3-2-WeM-3, 18  
 Bousser, Etienne: **IA2-2-ThA-10, 31**; MA1-1-MoM-2, 5; MA3-2-TuA-8, **16**; TS1-2-MoA-3, 10  
 Bower, Ryan: PP2-1-WeM-10, 19  
 Boyce, Brad: CM3-2-WeM-4, 18; CM3-3-ThA-11, 30; PP4-ThA-6, **31**  
 Boyer, Albert: MD2-2-ThM-4, 27  
 Boyer, Bertrand: MD2-2-ThM-4, 27  
 Branício, Paulo: CM3-2-WeM-3, 18  
 Bratlie, Henrik: TS1-2-MoA-4, 10  
 Brause, Lucas: IA3-ThM-1, 27  
 Bravo-Sanchez, Mariela: CM1-2-TuA-5, **15**  
 Briggs, Louise: MD2-2-ThM-11, 27  
 briosis, Pascal: MB-ThP-21, **33**  
 Brizuela, Marta: MA2-1-TuA-4, 15  
 Broitman, Esteban: CM2-1-ThM-3, **26**; MC-ThP-10, **36**  
 Brown, Nathan: MC1-1-ThA-2, 32  
 Brown, Stephen: MA1-1-MoM-2, **5**  
 Bryant, Michael: MD1-1-MoM-4, 5  
 Buozi Moffa, Eduardo: MD2-1-TuA-8, 16  
 Burghammer, Manfred: CM1-1-TuM-4, 11; TS1-2-MoA-4, 10  
 — C —  
 C. Gomes, Luciana: MD-ThP-23, 36  
 Cabrera-Yacuta, Tania: CM-ThP-9, **33**  
 Cai, Ran: IA1-FrM-1, 37; IA2-1-WeM-6, 21  
 Cairns, Eun: IA1-FrM-4, **37**  
 Caldatto Dalan, Filipe: TS2-2-ThM-5, 28  
 Calderón-Olvera, Roxana M.: MA3-3-WeM-4, 21  
 Callahan, William: CM3-3-ThA-1, 30  
 Campos Silva, Enrique: MC3-2-WeA-6, 24  
 Campos Silva, Iván: MC-ThP-1, 27  
 Campos Silva, Ivan E: MA4-1-MoA-8, **10**  
 Canal, Felipe: PP1-2-MoA-11, 9  
 Canulescu, Stela: MB3-MoM-1, **4**  
 Čapek, Jiří: PP2-1-WeM-3, **19**  
 Cárdenas-Rojas, Uriel: MA3-2-TuA-5, 16  
 Cardoso, Giovana Collobaro: MD-ThP-20, 36  
 Carreon Garcidueñas, Maria Guadalupe: MD2-2-ThM-12, 27  
 Carrera Espinoza, Rafael: MA-ThP-4, 34  
 Casari, D.: MA2-2-WeM-6, 19  
 Castillo Saenz, Jhonathan: TS2-ThP-2, 36  
 Cavarroc, Marjorie: **IA2-2-ThA-10, 31**; MA1-2-MoA-8, 9  
 Cavarroc-Weimer, Marjorie: MA1-1-MoM-2, 5; **MC1-1-ThA-1, 32**; PP2-1-WeM-1, 19  
 Ceder, Gerbrand: CM3-3-ThA-4, 30  
 Ceré, Silvia: MD2-2-ThM-1, 27  
 Čermák, Adam: IA3-ThM-13, 27  
 Čerstvý, Radomír: MB-ThP-8, 33  
 Cervantes-Ramírez, Alejandra: MD2-1-TuA-3, **16**  
 Červenková, Veronika: PP-ThP-12, 34  
 Cesar Soares Junior, Paulo: MA-ThP-10, 34  
 Cha, Sung Chul: IA-ThP-3, 35; MC3-2-WeA-3, 24; MC3-3-FrM-5, 38  
 Chagnon, Thomas: TS1-2-MoA-3, 10  
 Challali, Fatima: MD2-2-ThM-3, **27**  
 Chandler, Charlie: CM1-2-TuA-2, 15; CM-ThP-5, 33  
 Chandra, Ramesh: MA2-1-TuA-2, 15  
 Chandross, Michael: MC1-1-ThA-2, 32  
 Chang, Chi-Lung: PP2-2-WeA-3, 23  
 Chang, Chi-Yueh: TS1-ThP-3, 36  
 Chang, Li-Chun: MB-ThP-2, 33  
 Chang, Ming-Hsuan: MD2-2-ThM-5, **27**  
 Chang, Shao-Chuan: TS1-2-MoA-6, 10  
 Chang, Yin-Yu: MA2-2-WeM-10, 19

## Author Index

- Chapon, Patrick: CM1-1-TuM-3, 11; IA2-2-ThA-7, 31
- Chaubet, Frédéric: MD2-2-ThM-3, 27
- Chen, Chih-Ping: MB2-2-TuM-6, 11
- Chen, Erdong: PP2-1-WeM-2, 19
- Chen, Guan Wen: CM-ThP-8, 33
- Chen, Han-Chieh: MA3-2-TuA-4, 16
- Chen, Hui-Chuan: TS2-2-ThM-1, 28
- Chen, Po-Chun: IA1-FrM-6, 37; TS1-2-MoA-8, 10
- Chen, Yafen: IA1-FrM-9, 37
- Chen, Yen-Yu: TS1-1-MoM-6, 6
- Chen, Yu-An: CM-ThP-7, 33
- Cheng, ChunHao: MA1-2-MoA-10, 9
- Cheng, Yang-Tse: MC2-1-TuA-10, 17
- Chesser, John: MA3-1-TuM-1, 12
- CHETTOUH, Gaya: PP2-1-WeM-6, 19
- Chevallier, Pascale: MD2-2-ThM-13, 27; MD-ThP-17, 35
- Chia-Lin, Li: TS1-2-MoA-9, 10
- Chiang, Chien-Cheng: MB2-1-MoA-10, 8
- Chiang, Chun-Te: MA3-1-TuM-5, 12
- Chiu, Wen-Hao: IA-ThP-7, 35
- Chizari, Kambiz: MD1-2-TuM-5, 13
- Choi, ByoungHo: MC3-3-FrM-5, 38
- Choi, Tag: KYL1-MoKYL-1, 7
- Chu, Jinn P.: MD1-2-TuM-7, 13
- Chuan, Ming-Tseng: MD2-2-ThM-5, 27
- Cimpoesu, Ramona: MB-ThP-14, 33
- Cioffi, Nicola: MD2-2-ThM-10, 27
- Cipriano Rangel, Elidiane: MD2-1-TuA-8, 16
- Connolly, Nicholas: KYL1-MoKYL-1, 7
- Contla Pacheco, Alan Daniel: MC-ThP-1, 36
- Conze, Suzan: IA3-ThM-13, 27
- Cooper, Jack: MA1-2-MoA-2, 9
- Cooper, Timothy: MD2-2-ThM-11, 27
- Copes, Francesco: MD2-2-ThM-1, 27
- Corbella, Carles: PP3-ThA-7, 30; PP-ThP-6, 34
- Cordill, Megan J.: MC2-1-TuA-1, 17
- Coroa, João: IA3-ThM-3, 27
- Côté, Claude: MD1-2-TuM-5, 13
- Counsell, Jonathan: MD-ThP-22, 36
- Crawford, Grant: MC3-1-TuM-6, 13
- Cremer, Rainer: MB-ThP-19, 33; MB-ThP-20, 33
- Cremer, Simon: MB-ThP-20, 33
- Cristino da Cruz, Nilson: MD2-1-TuA-8, 16
- Crouan, Martin: MB2-3-ThM-3, 26
- Crovetto, Andrea: CM3-2-WeM-5, 18
- Cuba-Amesquita, Christian Ricardo: MC3-3-FrM-3, 38
- Curam, Arjun: MA3-3-WeM-10, 21
- Curry, John: CM3-2-WeM-4, 18; MC1-1-ThA-2, 32; MC1-2-FrM-3, 38; PP1-1-MoM-1, 4
- Czigány, Zsolt: MA-ThP-7, 34
- D —
- da Silva Barbosa, Natali: TS2-2-ThM-5, 28
- Da Silva Rocha, Alexandre: PP1-2-MoA-11, 9
- da Silva Sobrinho, Argemiro Soares: TS2-2-ThM-5, 28
- Dahlqvist, Martin: MA4-2-TuM-3, 12
- Dalan, Filipe: TS2-2-ThM-8, 28
- Danelon, Miguel R.: MC1-2-FrM-2, 38
- Daniel, Rostislav: CM2-1-ThM-8, 26; TS1-2-MoA-4, 10
- Daugela, Antanas: CM2-1-ThM-13, 26
- Dávila Perez, Miguel Ivan: MD2-2-ThM-12, 27; MD-ThP-5, 35
- Davydok, Anton: CM-ThP-4, 33; MA-ThP-2, 34; PP2-3-FrM-6, 37
- de Freitas Quadros, Fernanda: MD-ThP-21, 36
- de Jesus Pereira, André Luis: TS2-2-ThM-5, 28
- De Oliveira F. Sales, Vinicius: MD2-2-ThM-3, 27
- Defanti, Silvio: MD-ThP-12, 35**
- Degen, Thomas: CM-ThP-10, 33
- Dehm, Gerhard: MA3-3-WeM-10, 21; MC2-1-TuA-8, 17
- Delgado-Jaime, Mario U.: CM1-2-TuA-5, 15
- DelRio, Frank: MC1-1-ThA-2, 32
- Denkena, Berend: PP4-ThA-5, 31**
- Depla, Diederik: MA2-1-TuA-9, 15; PP1-1-MoM-3, 4; PP-ThP-4, 34
- Desai, Saaketh: CM3-3-ThA-11, 30
- Dewynter, Manon: PP-ThP-5, 34
- Diego Torres, Ricardo: MA-ThP-10, 34
- Dieudonné, Céilia: PP2-1-WeM-1, 19
- Dimaggio, Elisabetta: TS2-1-WeA-3, 24
- Dimitrova, Rayna: IA3-ThM-6, 27
- Ding, Hanping: PP1-2-MoA-4, 9
- Dingreville, Remi: CM3-3-ThA-11, 30; PP1-1-MoM-1, 4
- Diniz Araujo, Lucas: TS2-2-ThM-5, 28
- Diniz, Gustavo da Silva: MD-ThP-20, 36
- Dixit, Satish: IA1-FrM-4, 37; IA2-2-ThA-5, 31
- Djemia, Philippe: MD2-2-ThM-3, 27
- Dochev, Boyan: IA3-ThM-6, 27
- Doi, Xella: MB2-3-ThM-9, 26
- Dominguez-Meister, Santiago: MA2-1-TuA-4, 15
- Doorman, Kyle: PP1-1-MoM-1, 4
- Dörflinger, Philipp: PP2-3-FrM-6, 37
- Dorman, Kyle: CM3-2-WeM-4, 18; CM3-3-ThA-11, 30; MC1-1-ThA-2, 32
- Douglas, Ossie: MB2-3-ThM-11, 26
- Drabik, Martin: IA2-2-ThA-9, 31
- Drenda, Cezary: IA-ThP-5, 35
- Dulebo, Alexander: MC-ThP-14, 36
- Dupeyrat, Cyril: PP-ThP-5, 34
- Dutt, Ateet: MD2-1-TuA-4, 16
- E —
- Ebert, Andreas: IA2-1-WeM-5, 21
- Eckert, Jürgen: CM2-1-ThM-5, 26
- Edwards, Camille: MC1-1-ThA-2, 32
- Edwards, T.J.E.: MA2-2-WeM-6, 19
- Efeoglu, Ihsan: MA4-1-MoA-6, 10; MA-ThP-1, 34
- Egumi Nagay, Bruna: MD2-1-TuA-8, 16
- EHIASARIAN, Arutiun P.: PP2-1-WeM-10, 19
- Eklund, Per: TS2-1-WeA-2, 24
- EL GARAH, Mohamed: PP2-1-WeM-6, 19
- Elsner, Fred: PP1-2-MoA-3, 9
- El-Zoka, Ayman: MB-ThP-15, 33
- Emre, Ali: MA4-1-MoA-6, 10; MA-ThP-1, 34
- Engwall-Holmes, Alison: MA3-1-TuM-1, 12
- Erdemir, Ali: MC1-1-ThA-5, 32
- Eriguchi, Koji: MA4-1-MoA-4, 10
- Eriksson, Anders.O: MA1-2-MoA-1, 9; MA-ThP-2, 34
- Eryilmaz, Levent: MC3-1-TuM-4, 13
- Escobar-Galindo, Ramón: MA2-1-TuA-4, 15
- Escobar-Hernández, Josué: MC-ThP-11, 36
- Eskandari, Mohammad: MC1-1-ThA-4, 32; MC3-1-TuM-9, 13
- Espinoza, Shirley: MB1-WeA-1, 23
- Esselbach, Markus: MC3-3-FrM-11, 24
- Estrada Movilla, Eduardo: TS2-ThP-2, 36
- Evans, Adele: MA1-2-MoA-2, 9
- Evans, Ryan: EX-TuM-1, 14
- Everhart, Brian: MB2-3-ThM-10, 26
- Evertz, Simon: IA3-ThM-5, 27
- F —
- Faceira, Brandon: MB2-3-ThM-3, 26
- Fadenberger, Konrad: IA2-2-ThA-9, 31; TS1-1-MoM-5, 6; TS1-ThP-1, 36
- Faiyad, Abrar: MC1-2-FrM-2, 38
- Fan, Yu-Jui (Ray): MD1-2-TuM-1, 13
- Farahani, Mina: PP2-1-WeM-3, 19
- Farfan Cabrera, Leonardo: MC3-2-WeA-6, 24
- Farfan, Leonardo: MC1-1-ThA-5, 32
- Farfan-Cabrera, Leonardo Israel: MC3-3-FrM-3, 38
- Farizon, Frederic: MD2-2-ThM-4, 27
- Farkas, Diana: CM3-2-WeM-3, 18
- Fathi, Nima: IA2-2-ThA-5, 31
- Faurie, Damien: MC2-1-TuA-3, 17
- Fazenda, Giovana: TS2-2-ThM-8, 28
- Febba, Davi: CM3-3-ThA-1, 30
- Fedel, Mariangela: TS3-TuA-1, 17
- Fehr, Alexander: IA3-ThM-11, 27; IA3-ThM-5, 27
- Fei, Yuxing: CM3-3-ThA-4, 30
- Feig, Christoph: PP1-1-MoM-2, 4
- Fekete, Matej: MA-ThP-7, 34
- Felfel, Reda: MD2-2-ThM-11, 27
- Feliziani, Giulio: IA2-2-ThA-9, 31
- Fenker, Martin: PP1-2-MoA-5, 9
- Fernandes, Tiago V.: TS2-1-WeA-2, 24
- Fernández Valdés, Daybelis: MC2-1-TuA-5, 17; MC-ThP-1, 36
- Ferrario, Mauro: MC1-2-FrM-10, 38
- Feuerstein, Emanuel: TS3-TuA-1, 17
- Fiantok, Tomáš: MA2-2-WeM-4, 19
- Figueroa-Vargas, Ignacio A.: MA3-3-WeM-4, 21
- Filipe Lopes Dias, Nelson: PP4-ThA-2, 31
- Fischer, Joel: PP2-3-FrM-1, 37
- Fleig, Jürgen: MB2-1-MoA-6, 8; MB-ThP-5, 33
- Fleischmann, Christian: MC3-1-TuM-3, 13
- Flores-Hidalgo, Lucia S.: MD2-1-TuA-9, 16
- Flores-Hidalgo, Lucia Sofia: MD-ThP-2, 35
- Foo, Yishu: CM1-2-TuA-9, 15; MB-ThP-23, 34
- Fortulan, Carlos: MD2-1-TuA-8, 16
- Foulquier, Paul: MA3-1-TuM-3, 12
- Freiße, Hannes: IA2-1-WeM-5, 21
- Fridrici, Vincent: MC1-1-ThA-1, 32**
- Friedl, Marie: TS3-TuA-1, 17
- Frost, Robert: TS2-1-WeA-2, 24
- Fu, Ming: PP2-1-WeM-10, 19
- Fuchs, Dominik: PP2-3-FrM-6, 37
- Fukumasu, Newton K.: MC1-2-FrM-2, 38
- Fukutani, Katsuyuki: IUVSTA-WeM-5, 18
- G —
- G. P. Soares, Olívia S.: MD-ThP-23, 36
- Gachot, Carsten: MA4-2-TuM-2, 12; MC-ThP-6, 36
- Gammer, Christoph: CM2-1-ThM-5, 26
- Garcia Barragan, Sebastian: MC3-2-WeA-6, 24
- Garcia-Cabazon, Cristina: MD-ThP-4, 35
- Garcia-Hernandez, Celia: MD-ThP-4, 35
- García-López, Julieta: MD2-1-TuA-9, 16
- Garrido, Lionel: MC1-1-TuM-3, 11
- Gatto, Andrea: MD-ThP-12, 35**
- Gault, Baptiste: CM1-2-TuA-8, 15; MB-ThP-15, 33
- Gee, Mark: IA2-1-WeM-1, 21
- Genga, Rodney: IA3-ThM-13, 27
- Georgiadou, Dimitra: MB2-2-TuM-1, 11
- Geringer, Jean: MD2-2-ThM-4, 27
- Gerlach, Juergen W.: TS1-ThP-4, 36
- Ghafoor, Naureen: MA2-1-TuA-9, 15
- Ghidelli, Matteo: MA3-3-WeM-10, 21
- Ghimire, Ganesh: MB3-MoM-1, 4
- Ghosh, Sheuly: CM3-1-MoA-6, 8
- Ghosh, Sujoy: MD1-1-MoM-3, 5; MD1-1-MoM-6, 5
- Gies, Astrid: MB2-1-MoA-6, 8; MB-ThP-5, 33; MC3-1-TuM-3, 13
- Giovannelli, Fabien: TS2-1-WeA-2, 24
- Girija, K.G.: MD1-1-MoM-3, 5
- Gitschthaler, Arno: PP2-3-FrM-6, 37
- Giunto, Andrea: CM3-3-ThA-4, 30
- Glavin, Nicholas: MB2-1-MoA-1, 8; MB2-3-ThM-10, 26
- Glinski, Tomasz: MB-ThP-10, 33

## Author Index

- Goanta, Viorel: CM2-1-ThM-12, 26  
 Goddard, David: MA1-2-MoA-2, 9  
 Gomes, Carlos: TS2-2-ThM-4, **28**  
 Gomes, Carlos Eduardo: TS2-2-ThM-5, 28  
 Gomes, Marcilene: TS2-2-ThM-8, 28  
 González-Campuzano, Ricardo: MA3-3-WeM-4, 21; MB-ThP-13, 33  
 Gonzalez-Robles, Tania E.: CM1-2-TuA-5, 15  
 Gonzalez-Ruiz, Jesús Eduardo: MD-ThP-4, 35  
 González-Vargas, Lizeth A.: MD2-2-ThM-10, 27  
 Goodelman, Daniel: MA3-1-TuM-1, **12**  
 Gorupp, Alexander: IA3-ThM-3, 27  
 Goumans, Fedor: CM3-1-MoA-12, **8**; CM-ThP-3, **33**  
 Grandini, Carlos Roberto: MD-ThP-20, **36**  
 Grant, David: MD2-2-ThM-11, 27  
 Graves, David: TS2-2-ThM-8, 28  
 Greco, Aaron: MC3-1-TuM-4, 13  
 Greczynski, Grzegorz (Greg): CM1-2-TuA-3, **15**  
 Gudmundsson, Jon Tomas: PP2-3-FrM-1, **37**  
 Guerra González, Roberto: MD2-2-ThM-12, 27; MD-ThP-5, 35  
 GUEYE, Lamine: PP2-1-WeM-6, 19  
 Guha, Supratik: MB2-3-ThM-9, 26  
 Guimond, Sebastian: IA2-2-ThA-9, 31  
 Gulten, Gokhan: MA4-1-MoA-6, **10**; MA-ThP-1, 34  
 Gunjal, Aarti: TS1-ThP-2, **36**  
 Gupta, Govind: MA1-2-MoA-9, 9  
 Gutschka, Christian: CM3-1-MoA-3, **8**; MA-ThP-7, **34**
- **H** —  
 Haddad, Ryma: MA3-1-TuM-3, 12  
 Hahn, Rainer: CM-ThP-4, **33**; MA1-2-MoA-1, 9; MA2-1-TuA-9, 15; MA2-2-WeM-4, 19; MA4-2-TuM-1, 12; MA4-2-TuM-2, 12; MA-ThP-2, 34; MD2-2-ThM-8, **27**; PP2-3-FrM-6, 37  
 Hahn, Tobias: PP2-3-FrM-8, 37  
 Haines, Finley: CM3-2-WeM-4, 18; CM3-3-ThA-11, 30  
 Hajas, Balint: MA2-1-TuA-10, 15  
 Hajas, Balint Istvan: MA-ThP-9, **34**; TS1-1-MoM-7, **6**  
 Hall, Justin: MC1-1-ThA-2, 32  
 Hamzaj, Ardita Kurtishaj: TS1-1-MoM-7, 6  
 Han, Jimin: MB-ThP-11, **33**  
 Han, Junsoo: IA2-2-ThA-7, 31  
 Hangen, Ude D.: MC-ThP-14, **36**  
 Hangen, Ude Dirk: CM1-2-TuA-10, **15**  
 Hans, Marcus: TS3-TuA-3, **17**  
 Hansen, Luka: PP2-3-FrM-8, 37  
 Hanuš, Jan: PP-ThP-12, 34  
 Harder, Bryan: MA1-2-MoA-5, 9  
 Harris, Christian: CM3-2-WeM-4, 18  
 Härtwig, Fabian: MC3-3-FrM-1, 38  
 Hatipoğlu, Ezgi: MB-ThP-15, 33  
 Haung, Shih-Yen: IA-ThP-6, **35**  
 Haviar, Stanislav: MB2-3-ThM-6, 26; MB3-MoM-5, **4**  
 Hebbur Kannur, Kaushik: MC3-1-TuM-3, 13  
 Helmstedt, Ulrike: TS1-ThP-4, 36  
 Hendricks, Jay: IUVESTA-WeM-1, **18**  
 Hernández Domínguez, Diego: MA-ThP-4, 34  
 Hernández Sánchez, Enrique: MA-ThP-4, 34  
 Hernández-Gordillo, Agileo: MB-ThP-13, 33  
 Herrmann, Christoph: IA3-ThM-1, 27  
 Hintsala, Eric: CM1-2-TuA-10, 15  
 Hirle, Anna: CM-ThP-4, 33; MA1-2-MoA-1, **9**; MA-ThP-2, **34**  
 Hodge, Andrea: CM3-2-WeM-3, 18  
 Hofer, Juan Andres: MB2-3-ThM-5, **26**  
 Hofmann, Falko: MC3-3-FrM-1, 38  
 Hohenwarter, Anton: CM1-1-TuM-4, 11
- Holec, David: CM3-1-MoA-10, **8**; CM3-1-MoA-3, 8  
 Holzbauer, Roland: IA2-2-ThA-9, 31  
 Horn, Connor: MB2-3-ThM-9, 26  
 Houska, Jiri: CM3-1-MoA-4, **8**; CM-ThP-6, **33**  
 Houssiau, Laurent: MD2-1-TuA-1, **16**; MD2-2-ThM-13, 27; MD-ThP-17, 35  
 Hovsepian, Papken Ehiassar: PP2-1-WeM-10, 19  
 Hsiang, Hsing-I: MA3-1-TuM-6, 12  
 Hsiang, Pin Yao: MB-ThP-18, **33**  
 Hsiao, Chun-Hung: MA2-2-WeM-10, 19  
 Hsiao, Sheng-Ru: IA1-FrM-6, 37  
 Hsu, Jui-Wei: MB2-2-TuM-5, **11**  
 Hsu, Peng-Hsiang: MB2-1-MoA-10, 8  
 Hsu, Yao-Tsung: MD-ThP-1, 35  
 Hsu, Ying-Chao: IA1-FrM-6, 37  
 Hu, Henry: IA2-1-WeM-6, 21  
 Huang, Ching-Chien: IA-ThP-2, **34**  
 Huang, Jia-Hong: MA2-2-WeM-5, **19**  
 Huang, Jow-Lay: MA3-1-TuM-5, 12  
 Huang, Sheng-Fang: CM3-2-WeM-12, 18  
 Huang, Tsung Yu: MB-ThP-18, 33  
 Huang, Tsung-Yu: CM-ThP-8, 33; MB2-1-MoA-8, **8**  
 Huang, Yong: CM2-1-ThM-4, 26  
 Huben, Theresa: MC3-1-TuM-3, 13  
 Huber, Tobias: MB2-1-MoA-6, 8; MB-ThP-5, 33; TS1-2-MoA-4, 10  
 Hudak, Oliver E.: MA1-2-MoA-1, 9  
 Hultman, Lars: MB3-MoM-3, **4**  
 Hung, Ting-Chun: TS2-2-ThM-11, **28**  
 Hung, Tzu-Hsiu: MA2-1-TuA-1, **15**  
 Huqe, Md Rashedul: CM1-2-TuA-9, 15; MB-ThP-23, 34
- **I** —  
 Ianus, Gelu: MB-ThP-14, 33  
 Ibrahim, Hamdy: MD1-1-MoM-6, 5  
 Immich, Philipp: IA3-ThM-10, **27**; PP1-2-MoA-1, 9  
 Isern, Luis: IA2-1-WeM-1, 21  
 Istrate, Bogdan: CM2-1-ThM-12, **26**; MB-ThP-14, **33**  
 Iwaniak, Aleksander: IA-ThP-8, **35**  
 Izai, Vitalii: MA2-2-WeM-4, 19
- **J** —  
 Jadhav, Swati: TS1-ThP-2, 36  
 Jain, Aakanksha: MA2-1-TuA-2, **15**  
 Jain, Manish: CM3-2-WeM-4, 18  
 Jamali, Amirmohammad: PP4-ThA-2, 31  
 Jang, Ji-Woong: MC1-1-ThA-10, 32  
 Jang, Young-Jun: IA3-ThM-12, 27; MC1-1-ThA-10, **32**  
 Janknecht, Rebecca: CM-ThP-4, 33  
 Janowitz, Julia: IA3-ThM-10, 27  
 Janse van Vuuren, Arno: IA3-ThM-13, 27  
 Jaoul, Cédric: MA1-2-MoA-8, 9  
 Jarka, Pawel: MD-ThP-3, 35  
 Jauregui, Luis: CM3-2-WeM-4, 18  
 Jerg, Carmen: MA1-2-MoA-1, 9; MA-ThP-2, 34  
 JIANG, CHANG-YI: MA3-2-TuA-3, **16**  
 Jones, Yasmine: MD-ThP-18, 35  
 Joshi, Anand: MC1-2-FrM-9, 38; MC2-1-TuA-11, **17**  
 Joshi, Unnati: MC1-2-FrM-9, **38**; MC2-1-TuA-11, 17  
 Joshi, Yug: CM1-2-TuA-8, 15  
 JOULAIN, Anne: CM2-1-ThM-10, 26  
 Juez Lorenzo, Maria del Mar: MA1-1-MoM-5, 5  
 Jung, Seonwoong: CM-ThP-11, 33; MB2-3-ThM-12, 34; PP-ThP-13, 34  
 Junge, Nico: **PP4-ThA-5**, 31  
 Jyh-Wei, Lee: TS1-2-MoA-9, 10
- **K** —  
 Kalanov, Dmitry: PP2-2-WeA-5, 23; TS1-ThP-4, 36  
 Kale, Sangeeta: MD1-1-MoM-3, 5  
 Kalscheuer, Christian: MC-ThP-4, **36**; **PP4-ThA-5**, 31  
 Kamboj, Maninder: CM3-2-WeM-13, **18**; CM-ThP-1, **33**  
 Kang, Joosung: MB2-3-ThM-12, **34**  
 Kannengießer, Thomas: MA1-2-MoA-6, 9  
 Kao Cheng, TAI: TS1-2-MoA-9, **10**  
 Kao, Hsuan-Ling: MB-ThP-2, **33**  
 Kappaun Vieira, Nathalia: MC-ThP-3, **36**  
 Karaca, Erhan: IA1-FrM-8, 37  
 Kashyap, Amod: PP4-ThA-2, **31**  
 Katuta, Ronaldo: PP-ThP-12, 34  
 Kaulfuss, Frank: MC3-3-FrM-1, 38  
 Kaur, Davinder: MA-ThP-3, 34; TS2-2-ThM-3, 28  
 Kawamoto, Mika: PP-ThP-9, 34  
 Kazda, Tomas: TS1-2-MoA-11, 10  
 Keckes, Jozef: CM1-1-TuM-4, 11; TS1-2-MoA-4, 10  
 Kelling, Sven: MC3-3-FrM-10, 26; MC-ThP-10, 36  
 Kelly, Peter: MA1-2-MoA-2, **9**; MA4-1-MoA-6, 10; MA-ThP-1, 34; MD2-2-ThM-11, 27; TS3-TuA-10, 17  
 Keraudy, Julien: IA2-2-ThA-9, 31; MC-ThP-6, 36  
 Kersten, Holger: PP1-2-MoA-8, **9**; PP2-3-FrM-8, 37; PP-ThP-12, 34  
 Keuter, Philipp: TS3-TuA-3, 17  
 Khan, Thawhid: MD1-1-MoM-4, 11  
 Kiener, Daniel: CM1-1-TuM-4, 15  
 Kim, Chanwoo: MB-ThP-4, 33  
 Kim, Dong Sik: IA-ThP-3, 35  
 Kim, Jae-Il: IA3-ThM-12, 27; MC1-1-ThA-10, 32  
 Kim, Jongkuk: IA3-ThM-12, **27**; IA-ThP-3, 35; MC1-1-ThA-10, 32; MC3-2-WeA-3, 24  
 Kim, Jungwoo: CM-ThP-11, 33  
 Kim, Sangyeop: IUVESTA-WeM-3, 18  
 Kim, So Young: PP-ThP-15, **34**  
 Kim, Young-Min: IUVESTA-WeM-3, 18  
 Kirnbauer, Alexander: MA2-1-TuA-10, 15; MA3-2-TuA-1, **16**; MA3-3-WeM-11, 21; MA-ThP-5, 34; MA-ThP-9, 34; TS1-1-MoM-7, 6  
 Kitzmantel, Michael: TS3-TuA-1, 17  
 Kiyoshi Fukumasu, Newton: **MC1-1-ThA-7**, 32  
 Klemberg-Sapieha, Jolanta: MB2-3-ThM-3, 26; TS1-2-MoA-3, 10  
 Klemberg-Sapieha, Jolanta Ewa: **IA2-2-ThA-10**, 31; MA1-1-MoM-2, 5; MA3-2-TuA-8, 16  
 Kling, Rainer: MB-ThP-21, 33  
 Ko, Dae-hong: MB2-3-ThM-12, 34; PP-ThP-14, 34  
 Ko, Dae-Hong: CM-ThP-11, 33; PP-ThP-13, 34; PP-ThP-15, 34  
 Kolarik, Vladislav: MA1-1-MoM-5, **5**  
 Kolmakov, Andrei: PP3-ThA-5, **30**; PP3-ThA-7, 30; PP-ThP-6, 34  
 Koloros, Jan: MB2-1-MoA-2, **8**; MB-ThP-8, **33**  
 Kolozsvári, Szilard: CM-ThP-4, 33; IA2-1-WeM-12, 21; MA-ThP-9, 34; MD2-2-ThM-8, 27; PP1-2-MoA-1, 9; TS1-1-MoM-5, 6; TS1-1-MoM-7, 6; TS1-ThP-1, 36  
 Kolozsvári, Szilard: MA1-2-MoA-1, 9; MA2-1-TuA-10, 15; MA-ThP-2, 34; MB2-1-MoA-6, 8; MB-ThP-5, 33; PP2-3-FrM-6, 37  
 Komurlu, Merve: MC1-1-ThA-5, 32  
 Konarski, Piotr: CM1-2-TuA-9, 15  
 Konstantinidis, Stephanos: PP2-1-WeM-2, 19  
 Korenyi-Both, Andras: MC3-1-TuM-1, **13**

## Author Index

- Kose, Rickmer: MC3-3-FrM-10, 26; MC-ThP-10, 36
- Kousaka, Hiroyuki: IA2-1-WeM-10, 21
- Koutna, Nikola: CM-ThP-4, 33
- Kowalski, Benjamin: MA1-2-MoA-5, 9
- Kozák, Tomáš: MB3-MoM-5, 4; PP2-1-WeM-3, 19
- Krick, Brandon: MC3-3-FrM-8, **38**
- Krysiak, Adrian: IA-ThP-8, 35
- Krywka, Christina: CM-ThP-4, 33; PP2-3-FrM-6, 37
- Kubicek, Antonin: PP-ThP-3, 34
- Kucheyev, Sergei: MA3-1-TuM-1, 12
- Kudrynskiy, Zakhar: MD2-2-ThM-11, 27
- Kulczyk-Malecka, Justyna: MA4-1-MoA-6, 10; MA-ThP-1, 34; MD2-2-ThM-11, 27; TS3-TuA-10, **17**
- Kumar Gurrarn, Lalith: CM3-1-MoA-6, 8
- Kumar Honnali, Sanath: TS2-1-WeA-2, 24
- Kumar, Akash: MB2-3-ThM-6, **26**; MB3-MoM-5, 4
- Kumar, Nirmal: MB2-3-ThM-6, 26
- Kuo, Yu-Lin: PP2-2-WeA-3, 23
- Kurapov, Denis: IA2-1-WeM-12, 21; MA2-2-WeM-11, 19
- Kurogi, Rizu: MA2-1-TuA-3, 15; PP-ThP-9, **34**
- Kutrowatz, Philip: MA1-2-MoA-1, 9; MA4-2-TuM-2, 12; MA-ThP-2, 34; MC-ThP-6, 36
- Kwon, Gi hoon: MC3-3-FrM-5, 38
- Kwong, Yee Man: CM1-2-TuA-9, 15; MB-ThP-23, 34
- **L** —
- Labuda, Aleksander: MC1-1-ThA-9, 32
- Lacerda Amorim, Fred: MA-ThP-10, 34
- Ladva, Satyam: CM-ThP-13, **33**
- Lai, Yen-Chin: TS1-2-MoA-8, **10**
- Lallo, James: CM1-2-TuA-2, **15**; CM-ThP-5, **33**
- Lan, Kuan-Che: MA2-2-WeM-10, **19**; PP1-2-MoA-2, 9
- Lapa, Pavel: PP1-2-MoA-3, 9
- Larranaga, Igor: IA2-2-ThA-9, 31
- Larson, Steven: MC1-2-FrM-3, 38; PP1-1-MoM-1, 4
- Le coulre, Sylvain: MB-ThP-21, 33
- le Febvrier, Arnaud: TS2-1-WeA-2, **24**
- Leal, Rafael: TS2-2-ThM-8, 28
- Le-Bourhis, Éric: PP-ThP-5, 34
- Lee, Chae-won: CM-ThP-12, 33
- Lee, Habeom: MB-ThP-4, **33**
- Lee, Heekwon: CM3-2-WeM-4, 18
- Lee, Jong-Seok: CM-ThP-12, 33
- Lee, Joowon: MB-ThP-12, **33**
- Lee, Jyh Wei: TS2-1-WeA-6, 24
- Lee, Jyh-Wei: MA1-2-MoA-10, 9; MA3-2-TuA-3, 16; MA3-2-TuA-4, **16**; MA3-3-WeM-12, 21; MA3-3-WeM-5, 21; MA-ThP-13, **34**; **PP2-3-FrM-4**, 34; TS1-2-MoA-8, 10
- Lee, KangKug: MD-ThP-18, **35**
- Lee, Sang-Jin: MB-ThP-11, 33; MB-ThP-12, 33
- Lee, Seungjoo: MC1-1-ThA-5, 32
- Lee, Suyeon: CM1-1-TuM-3, 11; IA2-2-ThA-7, **31**
- Lee, Yueh-Lien: IA-ThP-6, 35; MA1-2-MoA-3, **9**; MC-ThP-9, **36**
- Lefever, Joel: MC1-1-ThA-9, **32**
- Leite, Douglas: TS2-2-ThM-4, 28; TS2-2-ThM-8, 28
- Lellig, S.: MA2-2-WeM-6, 19
- Lemmer, Oliver: PP1-1-MoM-2, 4
- Lemus Solorio, Alfonso: MD2-2-ThM-12, 27
- Li Bassi, Andrea: MA3-3-WeM-10, 21
- Li, Bingxin: CM1-2-TuA-8, 15
- Li, Chia-Lin: MA1-2-MoA-10, 9; MA3-2-TuA-3, 16; MA3-2-TuA-4, 16; MA3-3-WeM-12, 21; MA3-3-WeM-5, **21**; MA-ThP-13, 34
- Li, Haixia: PP1-2-MoA-4, 9
- Li, Yujiao: CM1-1-TuM-1, **11**
- Liang, Aoyan: CM3-2-WeM-3, 18
- Liao, Yu-Lin: MA2-1-TuA-8, 15; MA-ThP-11, 15
- Lienard, Francois: TS1-2-MoA-4, 10
- Limbeck, Andreas: PP2-3-FrM-6, 37
- Lin, Ding-Peng: MA-ThP-11, **15**
- Lin, Guan-Hong: MA3-1-TuM-6, **12**
- Lin, Jianliang: MC3-2-WeA-4, **24**
- Lin, Rwei-Chi: TS1-ThP-3, 36
- Lin, Sheng-Wei: TS2-2-ThM-9, **28**
- Lin, Sheng-Yen: MD1-2-TuM-3, 13
- Lin, Shih-Hung: TS1-ThP-3, 36
- Lin, Ying-Hsiang: TS1-ThP-3, 36
- Lin, Yu-Rou: MD1-2-TuM-3, 13
- Lin, Yu-Tsung: MA3-1-TuM-5, 12
- Linares Duarte, Luz Alejandra: MA-ThP-4, **34**
- Liskiewicz, Tomasz: IA2-1-WeM-1, 21; IA-ThP-5, 35; MD1-1-MoM-4, **5**
- Litvinov, Dimitri: IUVSTA-WeM-10, 18
- Liu, Po-Liang: CM3-2-WeM-12, **18**
- Liu, Ting-Yu: MD-ThP-24, **36**
- Liu, Xiaoyang: PP4-ThA-5, **31**
- Liu, Yi: CM3-2-WeM-3, 18
- Liu, Yongtao: CM3-3-ThA-6, **30**
- Löffler, Jonathan: PP2-3-FrM-8, 37
- Loomis, Eric: PP1-2-MoA-3, 9
- Lopes da Silva, Rafael: PP1-2-MoA-11, 9
- Lopez Castañeda, Sandra Edith: MD2-2-ThM-12, 27
- Lorentzon, Marcus: MA2-1-TuA-9, 15
- Loreto, Eduardo: MD1-2-TuM-5, 13
- Lou, Bih Show: TS2-1-WeA-6, 24
- Lou, Bih-Show: MA1-2-MoA-10, 9; MA3-2-TuA-3, 16; MA3-2-TuA-4, 16; MA3-3-WeM-12, 21; MA3-3-WeM-5, 21; MA-ThP-13, 34; PP2-3-FrM-4, 34; TS1-2-MoA-8, 10
- Lu, BengYan: MA3-3-WeM-12, **21**
- Lu, Min-Hsuan: MB-ThP-2, 33
- Lu, Ping: CM3-2-WeM-4, 18
- Lucas, stephane: PP1-2-MoA-10, 9
- Lümkemann, A.: MA2-2-WeM-6, 19
- Lundin, Daniel: PP2-1-WeM-2, 19; PP2-3-FrM-1, 37
- Lupu, Fabian Cezar: CM2-1-ThM-12, 26; MB-ThP-14, 33
- Lusvardi, Luca: MC-ThP-12, 36
- **M** —
- Macknojia, Ali Zayaan: MC1-1-ThA-4, 32; MC3-1-TuM-9, **13**
- Madden, Nathan: MC3-1-TuM-6, 13
- Maerten, Thibault: MA1-1-MoM-1, **5**
- Magnuson, Martin: TS2-1-WeA-2, 24
- MAHAPATRA, SANTOSH KUMAR
- Mai, Fu-Der: MD-ThP-1, **35**
- Maj, Łukasz: IA-ThP-5, 35
- Makowski, Stefan: MC3-3-FrM-1, 38
- Maldonado Otero, Ashley: CM3-2-WeM-3, **18**
- Malheiros, Samuel Santana: MD2-2-ThM-2, 27
- Malvestiti, Luciana: MD2-2-ThM-1, **27**
- Mangolini, Filippo: MC1-1-ThA-2, 32
- Mantovani, Diego: MD2-2-ThM-1, 27; MD2-2-ThM-13, 27; MD2-2-ThM-3, 27; **MD-ThP-12**, 35; MD-ThP-17, 35
- Marchev, Krassimir: IA3-ThM-6, 27
- Marian, Grigore: CM2-1-ThM-12, 26
- Marian, Teodor: MB-ThP-14, 33
- Mark, Günter: PP2-3-FrM-8, 37
- Markevitch, Maxim: PP-ThP-16, 34
- Martínez, Shirley: MD2-1-TuA-4, 16
- Martínez-Gutiérrez, H.: CM-ThP-9, 33
- Martínez-Lara, David E.: MA3-3-WeM-4, 21; MB-ThP-13, 33; MD-ThP-11, 35
- Martínez-Lara, David Eduardo: MD2-1-TuA-3, 16
- Martínez-Murillo, Gustavo E.: MD2-1-TuA-9, 16
- Martinez-Orozco, Katherine: MD1-2-TuM-8, 13
- Martini, Ashlie: MC1-2-FrM-2, 38
- Martins de Souza, Roberto: MC1-1-ThA-7, 32
- Martinu, Ludvik: IA2-2-ThA-10, 31; MA1-1-MoM-2, 5; MA3-2-TuA-8, 16; MB1-WeA-3, **23**; MB2-3-ThM-3, 26; TS1-2-MoA-3, 10
- Matas, Martin: CM3-1-MoA-10, 8
- Mathew, T. Mathew: MD1-1-MoM-3, **5**; MD1-1-MoM-6, 5
- Mato, Sonia: MA2-1-TuA-4, 15
- Matthews, Allan: IA1-FrM-2, 37
- Matthews, D.T.A.: IA1-FrM-1, 37
- Mayrhofer, Paul: MA2-1-TuA-10, **15**
- Mayrhofer, Paul H.: CM-ThP-4, 33
- Mayrhofer, Paul Heinz: IA2-1-WeM-12, 21; MA3-3-WeM-11, 21; MA-ThP-5, 34; MA-ThP-9, 34; TS1-1-MoM-7, 6
- Mazumder, Chiranjib: MD1-1-MoM-3, 5
- McKenzie, David R.: KYL3-ThKYL-1, **29**
- McMaster, Sam: IA2-1-WeM-1, 21
- McMaster, Samuel: MD1-1-MoM-4, 5
- Medjahed, Asma A.: CM1-1-TuM-4, 11
- Mehta, Vishal: MC1-2-FrM-9, 38; MC2-1-TuA-11, 17
- Meindlumer, Michael: CM1-1-TuM-4, **11**
- Melo-Pérez, M. A.: MC-ThP-11, 36
- Mendez, Juan Manuel: **IA2-2-ThA-10**, 31; MA1-1-MoM-2, 5
- Mendoza-Pérez, Rafael: MA3-3-WeM-4, 21
- MENESES AMADOR, ALFONSO: MC2-1-TuA-5, 17; MC-ThP-1, 36
- Meneses-Amador, A.: CM-ThP-9, 33
- Mengucci, Paolo: MD2-2-ThM-1, 27; MD-ThP-12, 35
- Menou, Edern: MA1-2-MoA-8, 9
- Mereaux, Ludovic: MA1-2-MoA-8, **9**
- Mergulhão, Filipe J.: MD-ThP-23, 36
- Meruvia, Michelle: MC-ThP-7, 36
- Meruvia, Michelle Sostag: MC-ThP-5, 36
- Mesic, Biljana: PP1-1-MoM-2, 4
- Michau, Alexandre: MA2-2-WeM-11, **19**
- Michel, Sebastian: IA3-ThM-1, 27
- Michelin Beraldo, Carlos Henrique: MD-ThP-12**, 35
- Michler, J.: MA2-2-WeM-6, 19
- Midkhatov, Kozim: MD2-2-ThM-11, 27
- Mikula, Marián: MA2-2-WeM-4, 19; MA4-2-TuM-1, 12
- Milan-Ramos, Benjamin: MA1-1-MoM-2, 5
- Minea, Tiberiu: PP2-2-WeA-1, **23**
- MINEA, Tiberiu: PP-ThP-11, **34**
- Mings, Alexander: MC1-2-FrM-3, 38; PP1-1-MoM-1, **4**
- Miranda Hernández, José Guadalupe: MA-ThP-4, 34
- Mishev, Valentin: IA3-ThM-6, 27
- Mohammadi, Farah: CM3-2-WeM-13, 18; CM-ThP-1, 33
- Molina-Sanchez, Abraham: MC3-3-FrM-3, **38**
- Momma, Markus: TS3-TuA-3, 17
- Monsifrot, Eric: MA3-1-TuM-3, 12
- Montes de Oca Zapiain, David: MC1-1-ThA-2, 32
- monton, carlos: PP1-2-MoA-3, 9
- Moon, Kyoung Il: IA-ThP-3, 35; MC3-2-WeA-3, 24; MC3-3-FrM-5, **38**
- Morel, Erwan: PP2-2-WeA-1, 23
- Moreno-Ruiz, L. A.: MC-ThP-11, 36
- Moser, Stefan: MC3-1-TuM-3, 13
- Moskovkin, Pavel: PP1-2-MoA-10, 9

## Author Index

- Mraz, Stanislav: MB-ThP-15, 33  
Muir, Ethan: PP2-1-WeM-10, 19  
Muller, Jerome: PP1-2-MoA-10, 9  
Munteanu, Corneliu: CM2-1-ThM-12, 26; MB-ThP-14, 33  
Murase, Mariane: TS2-2-ThM-8, 28  
Murase, Mariane Murase: TS2-2-ThM-4, 28  
Murashima, Motoyuki: IA2-1-WeM-10, 21  
Muratore, Christopher: MB2-3-ThM-10, 26  
Music, Denis: CM3-2-WeM-10, 18
- **N** —  
Nagay, Bruna Egumi: MD2-2-ThM-2, 27  
Nakashima, Yuya: IA2-1-WeM-10, 21  
Naranjo, Xavier: PP1-2-MoA-4, 9  
Nascente, Pedro: MD1-2-TuM-8, 13  
Nava Leana, Felipe: MC2-1-TuA-5, 17; MC-ThP-1, 36  
Navabpour, Parnia: IA3-ThM-3, 27  
Nazar, Boris: CM2-1-ThM-12, 26; MB-ThP-14, 33  
Neitzke, Cesar: MC-ThP-7, 36  
Nemanič, Vincenc: TS1-1-MoM-7, 6  
Netto, Thais: MA1-2-MoA-2, 9  
Neubauer, Erich: TS3-TuA-1, 17  
Neugebauer, Jörg: CM1-2-TuA-8, 15  
Nevatia, Pragnay: CM3-3-ThA-4, 30  
Ngongo, Sinoyolo: IA3-ThM-13, 27  
Nguyen, Thi Xuyen: TS1-ThP-3, 36; TS2-2-ThM-1, 28  
Nicholls, John: IA2-1-WeM-1, 21  
Nie, Xueyuan: IA1-FrM-1, 37; IA2-1-WeM-6, 21  
Niemann, Jessica: PP2-3-FrM-8, 37; PP-ThP-12, 34  
Nieto-Sosa, J. A.: MC-ThP-11, 36  
Nikitin, Daniil: PP-ThP-12, 34  
Nikolov, Antonio: IA3-ThM-6, 27  
Norberg, Nicholas: CM-ThP-10, 33  
Noronha Lisboa-Filho, Paulo: MD1-1-MoM-1, 5  
NOUVEAU, Corinne: PP2-1-WeM-6, 19  
Novák, Petr: MB-ThP-8, 33  
Nowak, Jakub: TS3-TuA-3, 17  
Ntemou, Eleni: MA4-2-TuM-2, 12; PP2-3-FrM-6, 37  
Nunney, Tim: CM1-2-TuA-2, 15; CM-ThP-5, 33
- **O** —  
Ocampo Ramírez, Arturo: MC-ThP-1, 36  
Oelschlegel, Felix: MC3-1-TuM-3, 13  
Ogale, Satishchandra: TS1-ThP-2, 36  
Ogle, Kevin: IA2-2-ThA-7, 31  
Oh, Seokmin: CM-ThP-11, 33; PP-ThP-13, 34; PP-ThP-14, 34  
Okamoto, Noki: MA2-1-TuA-3, 15; PP-ThP-9, 34  
Onofrio, Nicolas: CM3-1-MoA-12, 8; CM-ThP-3, 33  
Ortiz Pérez, Álvaro: TS2-ThP-2, 36  
Oses, Corey: CM3-1-MoA-8, 8  
Ott, Vincent: MA1-1-MoM-6, 5; MA3-3-WeM-6, 21  
Oudini, Noureddine: MD1-2-TuM-5, 13  
Oulton, Rupert: PP2-1-WeM-10, 19  
Ouyang, Fan-yi: MA-ThP-11, 15  
Ouyang, Fan-Yi: MA2-1-TuA-8, 15; MB2-1-MoA-10, 8; MB2-2-TuM-5, 11  
Owen, David: PP2-1-WeM-10, 19
- **P** —  
P. Leitão, Joaquim: TS2-1-WeA-2, 24  
Pacini, Alberto: MC1-2-FrM-10, 38  
Pajak, Aleksandra: MB2-3-ThM-3, 26  
Pajdarová, Andrea Dagmar: PP2-1-WeM-3, 19  
Palaniyappan, Sasikumar: PP1-2-MoA-3, 9  
Palisaitis, Justinas: MA2-1-TuA-9, 15  
Pan, Fei: CM-ThP-7, 33  
Panagi, Kleitos: TS3-TuA-10, 17  
Pandey, Sadikshya: IA2-2-ThA-4, 31  
Panicaud, Benoit: PP1-1-MoM-5, 4  
Pape, Florian: MC-ThP-14, 36  
Papesh, Henry: MC1-1-ThA-5, 32  
Pappas, Daphne: IA2-1-WeM-3, 21  
PARENT, Salomé: CM2-1-ThM-10, 26  
Park, Chang Ha: IA-ThP-3, 35  
Park, Siwon: IUUSTA-WeM-3, 18  
Park, Tai-su: PP-ThP-15, 34  
Paternoster, Carlo: MD2-2-ThM-1, 27; MD2-2-ThM-3, 27; **MD-ThP-12**, 35  
Pathak, Jaivik: MC1-2-FrM-9, 38  
Patidar, Jyotish: PP-ThP-8, 34  
**Paulo Tschiptschin, André: MC1-1-ThA-7**, 32  
Paumier, Fabien: PP-ThP-5, 34  
Peng, Pei-Fen: MA2-2-WeM-5, 19  
Pereira, André: TS2-2-ThM-4, 28; TS2-2-ThM-8, 28  
Pérez Terán, Hugo Alberto: MC2-1-TuA-5, 17  
Perez Trujillo, Francisco Javier: TS3-TuA-8, 17  
Pérez, Francisco Javier: MA2-1-TuA-4, 15  
Pérez-Alvárez, J.: CM-ThP-9, 33  
Persson, Dan: IA2-2-ThA-7, 31  
Pessoa, Rodrigo: TS2-2-ThM-4, 28  
Petitot, Christian: MB-ThP-21, 33  
Petrov, Krum: IA3-ThM-6, 27  
Petrov, Peter K.: PP2-1-WeM-10, 19  
Petruhins, Andrejs: PP1-2-MoA-1, 9  
Phan, Minh Khoi: IA1-FrM-1, 37  
Phoo, May Thawda: CM1-2-TuA-9, 15; MB-ThP-23, 34  
PINOT, Yoann: PP2-1-WeM-6, 19  
Pinto, Haroldo: MD1-2-TuM-8, 13  
Piovesan Dalla Nora, João Vitor: PP1-2-MoA-11, 9  
Pitonakova, Tatiana: TS1-2-MoA-11, 10  
Pitoňáková, Tatiana: MA-ThP-7, 34  
Platz, Daniel: MB2-1-MoA-11, 8  
Polcík, Peter: CM-ThP-4, 33; IA2-1-WeM-12, 21; MA1-2-MoA-1, 9; MA3-3-WeM-11, 21; MA-ThP-2, 34; MA-ThP-5, 34; MB2-1-MoA-6, 8; MB-ThP-5, 33; MD2-2-ThM-8, 27; PP1-2-MoA-1, 9; PP2-3-FrM-6, 37; TS1-1-MoM-5, 6; TS1-ThP-1, 36  
Poli, Jean-Philippe: MA3-1-TuM-3, 12  
Poltronieri, Cristiano: MD2-2-ThM-3, 27  
Pözlberger, Daniel: MA4-2-TuM-2, 12; MC-ThP-6, 36  
Porter, Ryan: MD1-2-TuM-5, 13  
Posmyk, Andrzej: IA-ThP-8, 35  
Poterie, Charlotte: TS2-1-WeA-2, 24  
Pötschke, Johannes: IA3-ThM-13, 27  
Prabhakar, Manoj: CM1-2-TuA-8, 15  
Prabhakar, Vinod: MD1-1-MoM-6, 5  
Pradhan, Smita Hasini: MD-ThP-14, 35  
Prado Medeiros Leite da Silva, Rodrigo: TS2-2-ThM-5, 28  
Prado-Prone, Gina: MD2-1-TuA-3, 16; MD2-1-TuA-9, 16; MD2-2-ThM-10, 27; MD-ThP-11, 35; MD-ThP-2, 35; MD-ThP-6, 35  
Prajapat, Pukhraj: MA1-2-MoA-9, 9  
Praks, Pavel: MA1-1-MoM-5, 5  
Praksová, Renata: MA1-1-MoM-5, 5  
Primetzhofer, Daniel: MA4-2-TuM-2, 12; PP2-3-FrM-6, 37; TS3-TuA-3, 17  
Proksch, Roger: MC1-1-ThA-9, 32  
Pshyk, Oleksandr: PP2-1-WeM-5, 19; PP-ThP-8, 34  
Purandare, Yashodhan: PP2-1-WeM-10, 19  
Purzynska, Hanna: IA-ThP-4, 35
- **Q** —  
Qiang, You: PP1-2-MoA-4, 9  
Qiu, Jun-Hui: MA2-1-TuA-8, 15  
Queiroz Carara, Gabriel: MC-ThP-7, 36  
Quiñones-Galván, J.G.: CM-ThP-9, 33  
Quiroz-Cervantes, Andrea: MD2-1-TuA-3, 16
- **R** —  
Raabe, Dierk: CM1-2-TuA-8, 15  
Rada, Tomas: TS1-2-MoA-11, 10  
Radny, Tobias: IA3-ThM-10, 27  
Rafael Nespeque Corrêa, Diego: MD-ThP-21, 36  
Raman, Priya: PP1-2-MoA-3, 9  
Ramirez-Arellano, Monserrat: MD2-1-TuA-9, 16; MD-ThP-2, 35  
Ramm, Jürgen: MB2-1-MoA-6, 8; MB-ThP-5, 33; PP2-3-FrM-6, 37  
Ramos, Carlos: MD2-1-TuA-4, 16  
Ramos-Vilchis, Carlos: MA3-2-TuA-5, 16  
Rangel, Elidiane C.: MD2-2-ThM-2, 27  
Rathi, Pranav: MC1-2-FrM-9, 38  
Ravelo Santos, Edgar: MC3-2-WeA-6, 24  
Razzolini, Lorenzo: MC1-2-FrM-10, 38  
Rekowski, Martin: IA3-ThM-1, 27  
Rendy, Bernardus: CM3-3-ThA-4, 30  
Resendiz Calderon, Cesar: MC3-2-WeA-6, 24  
Resendiz-Calderon, Cesar David: MC3-3-FrM-3, 38  
Rettenwander, Daniel: TS1-2-MoA-4, 10  
Revel, Adrien: PP2-2-WeA-1, 23  
REVEL, Adrien: PP-ThP-11, 34  
Reyes-Carmona, Lorena: MD2-1-TuA-3, 16; MD2-2-ThM-10, 27; MD-ThP-11, 35; MD-ThP-6, 35  
Rezek, Jiří: MB2-1-MoA-2, 8; MB-ThP-8, 33  
Ricolleau, Christian: MA3-3-WeM-10, 21  
Riedl, Helmut: CM-ThP-4, 33; IA2-1-WeM-12, 21; MA1-2-MoA-1, 9; MA2-2-WeM-4, 19; MA4-2-TuM-1, 12; MA4-2-TuM-2, 12; MA-ThP-2, 34; MB2-1-MoA-6, 8; MB-ThP-5, 33; MC-ThP-6, 36; MD2-2-ThM-8, 27; PP2-3-FrM-6, 37; TS1-1-MoM-5, 6; TS1-ThP-1, 36  
Riedl-Tragenreif, Helmut: CM3-1-MoA-3, 8; MA-ThP-7, 34  
Rivera-Tello, C. D.: CM-ThP-9, 33  
Robau-Porrua, Amanda: MD-ThP-4, 35  
Roberto Grandini, Carlos: MD-ThP-21, 36  
Roch, Tomás: MA2-2-WeM-4, 19; MA4-2-TuM-1, 12  
Rocha, Fellipy S.: MA3-2-TuA-8, 16  
Rodil, Sandra: MD-ThP-6, 35  
Rodil, Sandra E.: MA3-2-TuA-5, 16; MD2-1-TuA-3, 16; MD2-1-TuA-9, 16; MD2-2-ThM-10, 27; MD-ThP-11, 35  
Rodil, Sandra E.: MD-ThP-2, 35  
Rodil-Posada, Sandra E.: MA3-3-WeM-4, 21; MB-ThP-13, 33  
Rodkey, Nathan: CM3-3-ThA-3, 30; PP2-1-WeM-5, 19  
RODRIGUEZ CASTRO, GERMAN ANIBAL: MC2-1-TuA-5, 17; MC-ThP-1, 36  
Rodriguez, Mark: CM3-3-ThA-11, 30  
Rodriguez, Sal: IA2-2-ThA-5, 31  
Rodríguez-Albelo, Marleny: MD-ThP-4, 35  
Rodríguez-Castro, G. A.: CM-ThP-9, 33; MC-ThP-11, 36  
Rogov, Aleksey: IA1-FrM-2, 37  
Rogoz, Vladyslav: TS2-1-WeA-2, 24  
Rojas, Teresa Cristina: MA2-1-TuA-4, 15  
Romero-Ibarra, Josué E.: MA3-3-WeM-4, 21  
Rosen, Johanna: MA4-2-TuM-3, 12; PP1-2-MoA-1, 9  
Rosenkranz, Andreas: MC3-1-TuM-7, 13  
Rosenthal, Martin: CM1-1-TuM-4, 11  
Rossi, Edoardo: CM2-1-ThM-8, 26  
Rossy Borges, Maria Helena: MD2-1-TuA-8, 16  
Roux Reyna, Mateo: MC3-2-WeA-6, 24  
Rubenbauer, Thomas: IA2-1-WeM-5, 21

## Author Index

- Rubio, Sandra: MD2-2-ThM-13, 27  
 Rubira Danelon, Miguel: MC1-1-ThA-7, **32**  
 Rückeshäuser, Phillip: TS1-1-MoM-5, **6**; TS1-  
 ThP-1, **36**  
 Rudolph, Martin: PP2-3-FrM-1, 37  
 Ruíz Domínguez, Jonathan Jorge: MA-ThP-4,  
 34  
 Rügenapf, Finn: PP4-ThA-2, 31  
 Rumsby, Phillip: MB1-WeA-3, **23**; MB2-3-  
 ThM-3, **26**  
 Rupert, Timothy: CM3-2-WeM-3, 18  
 Ruzic, David N.: KYL1-MoKYL-1, **7**  
**— S —**  
 S Mulik, Rahul: MA2-1-TuA-2, 15  
 Sadki, Mustapha: CM-ThP-10, 33  
 Saha, Suparna: TS1-ThP-2, 36  
 Saito, Takeyasu: MA2-1-TuA-3, **15**; PP-ThP-9,  
 34  
 Sajti, Laszlo: TS3-TuA-1, 17  
 Sakamoto, Ryo: PP2-2-WeA-4, 23  
 Saksena, Aparna: CM1-2-TuA-8, **15**; MB-ThP-  
 15, **33**; TS3-TuA-3, 17  
 Salinas, Rafael: MD2-1-TuA-4, 16  
 Sälker, Janis: TS3-TuA-3, 17  
 Salvadores Farran, Norma: MA4-2-TuM-2, **12**;  
 MB2-1-MoA-6, **8**; MB-ThP-5, **33**  
 Salvati, Enrico: CM1-1-TuM-4, 11  
 SANCETTE, Frederic: PP2-1-WeM-6, 19  
 Sánchez Fuentes, Yesenia: MA-ThP-4, 34  
 Sanchez-Lopez, Juan Carlos: MA2-1-TuA-4,  
**15**; MD-ThP-4, **35**  
 Sangiovanni, Davide: CM3-1-MoA-6, 8  
 Santana Malheiros, Samuel: MD2-1-TuA-8, **16**  
 Santana Rodriguez, Guillermo: MD2-1-TuA-4,  
 16  
 Santana, Ruben: PP1-2-MoA-3, 9  
 Sanzone, Giuseppe: IA3-ThM-3, 27  
 Sarakinos, Kostas: MB2-1-MoA-3, **8**  
 Sarkissian, Andranik: MD1-2-TuM-5, **13**; MD2-  
 2-ThM-1, 27; MD2-2-ThM-13, 27; **MD-ThP-  
 12**, 35; MD-ThP-17, 35  
 Sarkissian, Anita: MD1-2-TuM-5, 13  
 Sartori, Bianca: TS2-2-ThM-5, 28  
 Sato, Shun: MC1-2-FrM-4, 38  
 Satrapinsky, Leonid: MA2-2-WeM-4, 19;  
 MA4-2-TuM-1, 12  
 Savadkouei, Kayvon: CM1-1-TuM-3, **11**; IA2-2-  
 ThA-7, 31  
 Scalabrin, Heloisa: MC-ThP-7, 36  
 Scalabrin, Heloisa: MC-ThP-5, **36**  
 Scandian, Cherlio: MC1-2-FrM-2, 38  
 Schäfer, Rolf: IA3-ThM-10, 27  
 Schenkel, Markus: IA3-ThM-5, 27  
 Scheu, Christina: TS1-1-MoM-3, **6**  
 Schloesser, Jana: IA2-1-WeM-5, 21  
 Schmalbach, Kevin: CM1-2-TuA-10, 15  
 Schmid, Ulrich: MB2-1-MoA-11, **8**  
 Schmidtova, Tereza: PP-ThP-3, 34  
**Schmittbuhl, Marc: MC1-1-ThA-1, 32**  
 Schneider, J.M.: MA2-2-WeM-6, 19  
 Schneider, Jochen: CM3-1-MoA-3, **8**; MB-ThP-  
 15, 33; TS3-TuA-3, 17  
 Schneider, Johannes: PP4-ThA-2, 31  
 Schneider, Michael: MB2-1-MoA-11, **8**  
 Schneider, Viktor: PP-ThP-12, 34  
 Scholz, Florentine: MB2-1-MoA-6, 8  
 Schott, Anna: IA3-ThM-1, 27  
 Schretter, Lukas: CM2-1-ThM-5, **26**  
 Schroepfer, Dirk: IA3-ThM-13, 27  
 Schröpfer, Dirk: MA1-2-MoA-6, **9**  
 Schuller, Ivan K.: MB2-3-ThM-5, 26  
 Schulze, Volker: PP4-ThA-2, 31  
 Schuster, Frédéric: MA3-1-TuM-3, 12  
 Schütte, Thomas: IA3-ThM-10, 27  
 Scotchford, Colin: MD2-2-ThM-11, 27  
 Sebastiani, Marco: CM2-1-ThM-8, 26  
 Sekkat, Abderrahime: PP3-ThA-3, **30**  
 Seo, Minsuk: MA3-1-TuM-1, 12  
 Sepúlveda-Robles, Omar: MD-ThP-6, 35  
 Shankhdhar, Satyam: TS2-1-WeA-5, **24**  
 Sharma, Amit Kumar: CM-ThP-7, 33  
 Shaw, David: TS3-TuA-10, 17  
 Shen, Chao-Chang: CM3-2-WeM-12, 18  
 Shen, Yu-Min: MA3-1-TuM-6, 12; MA3-1-  
 TuM-5, 12  
 Sheshi, Noel: CM1-1-TuM-4, 11  
 Shevchenko, Elena V.: IA1-FrM-10, **26**  
 Shikder, Kawshik: CM1-2-TuA-9, 15; MB-ThP-  
 23, 34  
 Shimizu, Tetsuhide: PP2-1-WeM-2, 19; PP2-2-  
 WeA-4, **23**; PP2-3-FrM-1, 37  
 Shin, Hyerin: CM-ThP-11, 33; PP-ThP-13, 34;  
 PP-ThP-14, **34**  
 Shin, Namsoo: CM-ThP-10, 33  
 Shin, Swanee: MA3-1-TuM-1, 12  
 Shin, Yehyeon: CM-ThP-12, **33**  
 Shukurov, Andrey: PP-ThP-12, 34  
 Silva Souza, João Gabriel: MD2-1-TuA-8, 16  
 Silva-Bermudez, Phaedra: MD2-1-TuA-9, **16**  
 Silva-Bermudez, Phaedra S.: MD2-2-ThM-10,  
 27  
 Silva-Bermúdez, Phaedra S.: MD-ThP-2, 35  
 Silva-Sobrinho, Argemiro: TS2-2-ThM-8, 28  
 Simek, Antonin: TS1-2-MoA-11, 10  
 Simova, Veronika: IA2-2-ThA-10, 31  
 Simposn, Robin: CM1-2-TuA-2, 15; CM-ThP-5,  
 33  
 Sinha, Avirup: MD-ThP-10, **35**; MD1-1-MoM-  
 3, 5; MD1-1-MoM-6, 5  
 Siol, Sebastain: PP-ThP-8, 34  
 Siol, Sebastian: CM3-3-ThA-3, **30**; PP2-1-  
 WeM-5, 19  
 Smith, Anastasia: MD-ThP-18, 35  
 Smith, Thomas: PP2-1-WeM-10, 19  
 Smok, Veronika: MD-ThP-3, 35  
 Smyrnova, Kateryna: MA4-2-TuM-1, **12**  
 Snapp, Peter: MB2-3-ThM-11, 26  
 Soares, Paulo: MC-ThP-3, 36; MC-ThP-5, 36;  
 MC-ThP-7, 36  
 Sobrinho, Argemiro: TS2-2-ThM-4, 28  
 Sochora, Vjaceslav: PP-ThP-3, 34  
 Soehngen, Jan-Ove: MA3-3-WeM-6, 21  
 Sofronov, Yavor: IA3-ThM-6, **27**  
 Solorio García, Victor Manuel: MD2-2-ThM-  
 12, 27; MD-ThP-5, 35  
 Solterbeck, Claus-Henning: IA2-1-WeM-5, 21  
 Sommerhäuser, Lars: PP-ThP-8, 34  
 Sostag Meruvia, Michelle: MA-ThP-10, 34;  
 MC-ThP-3, 36  
 Soucek, Pavel: PP-ThP-3, **34**; TS1-2-MoA-11,  
**10**  
 Souček, Pavel: MA-ThP-7, 34  
 Sousa-Cardoso, Francisca: MD-ThP-23, **36**  
 Souza, Ana Paula: MD2-2-ThM-2, 27  
 Souza, João Gabriel S.: MD2-2-ThM-2, 27  
 Souza, Roberto M.: MC1-2-FrM-2, 38  
 Springer, Hauke: TS3-TuA-3, 17  
 Sroba, Viktor: MA4-1-MoA-10, **10**  
 Šroba, Viktor: MA2-2-WeM-4, 19; MA4-2-  
 TuM-1, 12  
 Stadlberger, Andreas: IA2-2-ThA-9, 31  
 Stadnick, Benjamin: CM1-2-TuA-10, 15  
 Stangier, Dominic: MC3-2-WeA-1, **24**  
 Stankova, Alice: IA2-2-ThA-7, 31  
 Stauffer, Douglas: CM1-2-TuA-10, 15  
 Steinhilber-Nethl, Doris: CM1-1-TuM-4, 11  
 Stelzig, Timea: MC3-1-TuM-3, 13; TS1-1-  
 MoM-5, 6; TS1-ThP-1, 36  
 Stevanovic, Vladan: CM3-1-MoA-1, **8**  
 Strozzi, David: MA3-1-TuM-1, 12  
 Stüber, Michael: MA1-1-MoM-6, 5  
 Stueber, Michael: IUVESTA-WeM-10, 18; MA3-  
 3-WeM-6, **21**; PP4-ThA-2, 31  
 Su, Yen-Hsun: CM-ThP-7, **33**  
 Sugumaran, Arunprabhu Arunachalam: PP2-  
 1-WeM-10, 19  
 Sultan, Borhan: IA2-2-ThA-7, 31  
 Sun, Hailin: IA3-ThM-3, **27**  
 Sun, Ying-Sui: MD1-2-TuM-3, **13**  
 Sung, Gugyeong: MC1-1-ThA-5, 32  
 Surman, David: MD-ThP-22, **36**  
 Suzuki, Kosuke: MC1-2-FrM-4, **38**  
 Švec, Peter: MA2-2-WeM-4, 19; MA4-2-TuM-  
 1, 12; PP2-3-FrM-6, 37  
 Swadzba, Radoslaw: IA-ThP-4, 35  
 Swadzba, Radosław: MA1-1-MoM-3, **5**  
 Sweet, Wendi: PP1-2-MoA-3, 9  
 Szymanski, Nathan: CM3-3-ThA-4, 30  
**— T —**  
 Ta, Nicki: MD1-1-MoM-3, 5  
 Tadeo Rosas, Raúl: MA-ThP-4, 34  
 Tai, Shao-Chien: TS1-1-MoM-4, 6  
 Takeuchi, Ichiro: CM3-3-ThA-9, **30**  
 Tanaka, Koichi: MB2-3-ThM-9, **26**  
 Tanski, Tomasz: MB-ThP-10, 33; MD-ThP-3, **35**  
 Tardelli, Joffrey: MC1-1-ThA-1, 32  
 Tasnádi, Ferenc: CM3-1-MoA-6, 8  
 Tayefi Ardebili, Faranak: PP1-2-MoA-10, **9**  
 Taylor, Gregory: MA3-1-TuM-1, 12  
 Tegelaers, Louis: IA3-ThM-10, 27  
 Teixeira-Santos, Rita: MD-ThP-23, 36  
 Tellekamp, Brooks: CM3-3-ThA-1, 30  
 Teodoro, Julia M.: MD2-2-ThM-2, 27  
 Thapa, Maansi: MD1-1-MoM-3, 5  
 Thapa, Santosh: MC2-1-TuA-10, **17**  
 Thierry, Dominique: IA2-2-ThA-7, 31  
 Thompson, Forest: MC3-1-TuM-6, 13  
 Thorwarth, Kerstin: PP2-1-WeM-5, 19; PP-  
 ThP-8, 34  
 Tillmann, Wolfgang: PP4-ThA-2, 31  
 Ting, Jyh-Ming: TS1-ThP-3, 36; TS2-2-ThM-1,  
 28; TS2-2-ThM-11, 28; TS2-2-ThM-13, 28;  
 TS2-2-ThM-9, 28  
 Tiwari, Krishnakant: TS2-1-WeA-6, **24**  
 Tjong, Jimi: IA1-FrM-1, 37  
 Tkadletz, Michael: TS1-2-MoA-4, 10  
 Tobola, Daniel: IA2-1-WeM-1, 21  
 Toboła, Daniel: IA-ThP-5, **35**  
 Todorov, Georgi: IA3-ThM-6, 27  
 Todorova, Mira: CM1-2-TuA-8, 15  
 Todt, Juraj: CM1-1-TuM-4, 11; TS1-2-MoA-4,  
**10**  
 Tokoroyama, Takayuki: IA2-1-WeM-10, 21;  
 MC1-2-FrM-4, 38  
 Tölg, Tomáš: PP2-1-WeM-3, 19  
 Torres, Matheus: TS2-2-ThM-4, 28  
 Torres, Ricardo: MC-ThP-7, **36**  
 Torres, Ricardo Diego: MC-ThP-3, 36; MC-ThP-  
 5, 36  
 Torres, Yadir: MD-ThP-4, 35  
 Totik, Yasar: MA4-1-MoA-6, 10; MA-ThP-1, 34  
 Toumi, Imene: PP1-1-MoM-5, **4**  
 Treutler, Kai: MA1-2-MoA-6, 9  
 TROMAS, Christophe: CM2-1-ThM-10, **26**  
 Truchlý, Martin: MA2-2-WeM-4, 19; MA4-2-  
 TuM-1, 12  
 Tsai, Kai-Tse: MA2-1-TuA-1, 15  
 Tsang, Chloe: MB2-3-ThM-9, 26  
 Tsao, Te-Kang: IA-ThP-7, **35**  
 Tsekpo, Yao Mawuena: MD-ThP-3, 35  
 Tseng, Chuan-Ming: MD-ThP-24, 38  
 Tseng, Sheng-Jui: MA-ThP-13, 34  
**— U —**  
 Učík, M.: MA2-2-WeM-6, 19  
 Ulfing, Robert: CM1-1-TuM-8, **11**

## Author Index

- Ulrich, Sven: IUVSTA-WeM-10, **18**; MA1-1-MoM-6, 5; MA3-3-WeM-6, 21  
Umehara, Noritsugu: IA2-1-WeM-10, 21; MC1-2-FrM-4, 38  
Unutulmazsoy, Yeliz: PP2-2-WeA-5, **23**; TS1-ThP-4, **36**  
Uy, Alan: PP-ThP-16, **34**  
— **V** —  
V. Rau, Julietta: MD-ThP-21, 36  
Vacirca, Davide: MA3-3-WeM-10, 21  
Vandenabeele, Cedric: PP1-2-MoA-10, 9  
Vasilev, Krasimir: KYL2-WeKYL-1, **22**  
Vasina, Petr: TS1-2-MoA-11, 10  
Vaubois, Thomas: MA1-2-MoA-8, 9  
Vera-Cárdenas, E.E.: MC-ThP-11, 36  
Vergara Hernández, Héctor Javier: MD-ThP-5, 35  
Vidiš, Marek: MA2-2-WeM-4, **19**  
Vieira, Rita: MD-ThP-23, 36  
Villalobos Brito, Julio César: MD-ThP-5, 35  
Vlcek, Jaroslav: MB1-WeA-4, **23**  
Voevodin, Andrey: MC3-1-TuM-9, 13  
Voevodin, Andrey A.: HL-WeHL-1, **25**; IA1-FrM-4, 37  
Volz, Udo: MC-ThP-14, 36  
Vrána, Lukáš: MA-ThP-7, 34  
— **W** —  
Wadge, Matthew: MD2-2-ThM-11, **27**  
Waheed, Amna: PP2-3-FrM-4, 34  
Wang, Chih-Liang: TS1-2-MoA-6, **10**  
Wang, Jer-Chyi: MB2-2-TuM-3, **11**  
Wang, Sea-Fue: MD1-2-TuM-7, 13  
Wang, Sheng-Chang: MA3-1-TuM-5, 12  
Wang, Shih-Min: MD-ThP-1, 35  
Wang, Tianxing Damir: MB2-3-ThM-5, 26  
Wang, Yiqi: MC3-3-FrM-12, **38**  
Wästlund, Jonatan: CM3-1-MoA-6, 8  
Watabe, Rina: PP2-1-WeM-2, 19  
Webster, Rebekah: MA1-2-MoA-5, **9**  
Weihnacht, Volker: MC3-3-FrM-1, **38**  
Welters, Martin: MB-ThP-19, **33**  
Wesling, Volker: MA1-2-MoA-6, 9  
West, Glen: TS3-TuA-4, **17**  
Whid, Iqra: PP-ThP-12, 34  
Wieczorek, Alexander: CM3-3-ThA-3, 30  
Wiesheier, Johannes: IA2-1-WeM-5, 21  
Wigger, Helton José: MD-ThP-12, 35  
Willeke, Maraike: MA1-2-MoA-6, 9  
Williams, Thomas: PP1-2-MoA-4, 9  
Wilson, Jonathan: MD2-2-ThM-11, 27  
With, Patrick C.: TS1-ThP-4, 36  
Witte, Christoph: IA2-1-WeM-5, **21**  
Witte, Julien: IA3-ThM-13, 27  
Wojcik, Tomasz: MA1-2-MoA-1, 9; MA2-1-TuA-10, 15; MA4-2-TuM-2, 12; MA-ThP-2, 34; MA-ThP-9, 34; MB2-1-MoA-6, 8; MB-ThP-5, 33; MC-ThP-6, 36; TS1-1-MoM-5, 6; TS1-1-MoM-7, 6; TS1-ThP-1, 36  
Wu, Cheng-Han: PP1-2-MoA-2, **9**  
Wu, Fan-Bean: MA2-1-TuA-1, 15; TS1-ThP-3, 36  
Wu, Hung-I: TS1-ThP-3, 36  
WU, JIAN-AN: TS2-2-ThM-13, **28**  
Wu, Meng Yun: MD1-2-TuM-3, 13  
Wu, Shan-Yuan: IA1-FrM-6, **37**  
Wu, Wan-Yu: TS1-ThP-3, **36**  
— **X** —  
Xu, Hongwei: PP1-2-MoA-3, 9  
Xu, Wenting: MC-ThP-4, 36  
— **Y** —  
Yan, Yu: MD1-1-MoM-4, 5  
Yáñez-Hernández, Lidi Astrid: MD-ThP-17, 35  
Yang, Fu-Sen: PP2-2-WeA-3, **23**  
Yang, Yung-Chin: MA1-2-MoA-10, 9; MA3-3-WeM-12, 21  
Yao, Guang-Yi: TS1-1-MoM-4, 6  
Yates, Heather: MD-ThP-22, 36  
Yaylali, Banu: MA4-1-MoA-6, 10; MA-ThP-1, 34  
Yazdani, Mohammad Hadi: CM3-2-WeM-3, 18  
Yelkarasi, Cagatay: MC1-1-ThA-5, 32  
Yeo, Jong-souk: CM-ThP-12, 33  
Yeo, Jong-Souk: IUVSTA-WeM-3, **18**  
Yerokhin, Aleksey: IA1-FrM-2, **37**  
Yesilyurt, Mustafa: MA4-1-MoA-6, 10; MA-ThP-1, 34  
Yi, Feng: PP3-ThA-7, 30; PP-ThP-6, 34  
Yoon, Dongmin: CM-ThP-11, 33; MB2-3-ThM-12, 34; PP-ThP-13, **34**; PP-ThP-14, 34  
Yoon, Hae Won: IA-ThP-3, **35**; MC3-2-WeA-3, **24**; MC3-3-FrM-5, 38  
Yordanov, Milko: IA3-ThM-6, 27  
Yumoto, Kenji: MC1-2-FrM-4, 38  
Yun, Zhang: CM1-2-TuA-9, 15; MB-ThP-23, 34  
Yung, Yung-Chin: MA-ThP-13, 34  
— **Z** —  
Zabeida, Oleg: MB1-WeA-3, 23; MB2-3-ThM-3, 26  
Zakutayev, Andriy: CM3-3-ThA-1, 30  
Zamperini, Camila A. Zamperini: MD2-2-ThM-10, 27  
Zander, Daniela: TS3-TuA-3, 17  
Zaoli, Zhang: CM2-1-ThM-4, **26**; MA2-2-WeM-6, **19**  
Zapien, Juan Antonio: CM1-2-TuA-9, **15**; MB-ThP-23, **34**  
Zárate Verduzco, Bryan Angel: MD2-2-ThM-12, **27**; MD-ThP-5, **35**  
Zauner, Lukas: TS3-TuA-1, **17**  
Zawischa, Martin: MC3-3-FrM-1, 38  
Zeman, Pavel: IA3-ThM-13, 27  
Zeman, Petr: MA2-2-WeM-1, **19**; MB3-MoM-5, 4  
Zenisek, Jaroslav: PP-ThP-3, 34  
Zhang, Hannah: IA2-1-WeM-1, 21  
Zhang, Ruixi: MC1-2-FrM-4, 38  
Zhang, Tianyi: IA2-1-WeM-6, **21**  
Zhao, Rong: IA3-ThM-5, **27**  
Zhao, Yujun: CM1-2-TuA-8, 15; MB-ThP-15, 33  
Zheng, Bo-Xuan: MD-ThP-24, **38**  
Zhirkov, Igor: PP1-2-MoA-1, **9**  
Zhou, Wei: IA1-FrM-9, 37  
Zhu, Xinna: MD-ThP-12, **35**  
Zhuo, Chen: CM2-1-ThM-4, 26  
Zielinski, Adam: IA-ThP-4, **35**  
Zitek, Michal: CM1-1-TuM-4, 11; CM2-1-ThM-8, 26  
Zuhayra, Daniel: PP2-3-FrM-8, 37  
Žumer, Marko: TS1-1-MoM-7, 6