

PacSurf 2024 Program Key

- BI** Biomaterial Surfaces & Interfaces
- NM** Nano and 2D Materials
- PL** Plenary Session
- RE** Renewable Energy and Energy Storage
- TF** Thin Films and Surface Modification

Key to Session/Paper Numbers

Sessions are labeled with acronyms (e.g. **BI, NM, etc.**), then a number to indicate split sessions running within a morning/eveing block or simultaneous sessions sponsored by the same topic(s) (e.g. **TF1, TF2**), then a dash followed by the first two characters of the day of the week: **Monday, Tuesday, Wednesday, Thursday**, then a single letter for **Morning, Evening, Poster**, and finally a number indicating the starting time slot for the paper.
Example: RE2-MoM10 (Renewable Energy, Monday morning, 11:00 am).

PacSurf 2024 Program Overview

| Room /Time | NAUPAKA SALON 1-3 | NAUPAKA SALON 4 | NAUPAKA SALON 5 |
|------------|-------------------|--|---|
| MoM | | RE1-MoM: Electrochemistry and Photocatalysis I RE2-MoM: Surfaces and Interfaces in Photovoltaics PL-MoM: Plenary Session | BI-MoM: Biomaterials/Interfaces - 3D Systems |
| MoE | | TF1-MoE: Thin Films – Materials I TF2-MoE: Thin Films - Characterization | BI1-MoE: Biomaterials/Interfaces - Characterization BI2-MoE: Biomaterials/Interfaces - Sustainable Materials |
| TuM | | RE1-TuM: Electrochemistry and Photocatalysis II RE2-TuM: Materials for Energy Conversion | BI1-TuM: Biomaterials/Interfaces - Biointeractions BI2-TuM: Biomaterials/Interfaces - Biosensing |
| TuP | POSTER SESSIONS | | |
| TuE | | NM1-TuE: Synthesis and Manipulation NM2-TuE: 2D Materials Based on Carbon and Boron | TF1-TuE: Thin Films - Bio- and Medical-related TF2-TuE: Thin Films - Processing |
| WeM | | NM1-WeM: Surface Engineering and Characterization NM2-WeM: Properties of 2D Materials | |
| WeP | POSTER SESSIONS | | |
| WeE | | TF1-WeE: Thin Films - Properties TF2-WeE: Thin Films - Materials II | |
| ThM | | TF1-ThM: Thin Films - Plasma and Etching-related TF2-ThM: Thin Films - Surface Modifications | NM1-ThM: Nanomaterials - Properties and Applications I NM2-ThM: Nanomaterials - Properties and Applications II |

Monday Morning, December 9, 2024

| Room Naupaka Salon 4 | | |
|----------------------|--|---|
| 8:00am | | Renewable Energy and Energy Storage Session RE1-MoM Electrochemistry and Photocatalysis I Moderator: Craig Perkins, National Renewable Energy Laboratory |
| 8:20am | | |
| 8:40am | INVITED: RE1-MoM-3 Hot Carrier-Driven Plasmonic Photoelectrochemical Processes, <i>Jeong Young Park</i> , KAIST, Republic of Korea | |
| 9:00am | | |
| 9:20am | RE1-MoM-5 Next-Generation Electrocatalysts Derived from Metal-Organic Frameworks for Hydrogen Production and Conversion, <i>Di-Jia Liu</i> , Argonne National Laboratory | |
| 9:40am | RE1-MoM-6 Defective Metal Oxides for Electrochemical Ammonia Synthesis, <i>Emma Lovell</i> , University of New South Wales, Australia | |
| 10:00am | BREAK | |
| 10:20am | RE2-MoM-8 Stabilizing Zinc Powder Anodes via Functional Mxene Towards Flexible Zinc-Ion Batteries, <i>ZIXUAN YANG</i> , Deakin University, Australia; <i>Z. Wang</i> , RMIT University, Australia; <i>J. Raza</i> , Deakin University, Australia | |
| 10:40am | RE2-MoM-9 Hard X-Ray Photoemission Spectroscopy Possibilities at Scienta Omicron, <i>Tamara Sloboda</i> , Scienta Omicron, Sweden; <i>P. Amann</i> , Scienta Omicron, Germany; <i>M. Lundwall</i> , <i>D. Allansson</i> , Scienta Omicron, Sweden; <i>X. Zhang</i> , <i>A. Yost</i> , Scienta Omicron | |
| 11:00am | RE2-MoM-10 Low Dos Tails Dominate Band Alignments in State-of-the-Art Cd(Se,Te) Solar Cells, <i>Craig Perkins</i> , National Renewable Energy Laboratory | |
| 11:20am | INVITED: PL-MoM-11 Unlocking Interfacial Water and Dynamics to Design Catalytic Activity and Selectivity, <i>Yang Shao-Horn</i> , MIT | Plenary Session Session PL-MoM Plenary Session Moderator: Gregory S. Herman, Argonne National Laboratory |
| 11:40am | | |

Monday Morning, December 9, 2024

| Room Naupaka Salon 5 | | |
|----------------------|---|--|
| 8:00am | Biomaterial Surfaces & Interfaces Session BI-MoM Biomaterials/Interfaces - 3D Systems Moderator: Jenny Malmstrom , University of Auckland, Australia | |
| 8:20am | | |
| 8:40am | | |
| 9:00am | | |
| 9:20am | | BI-MoM-5 Antifouling Strategies From a Marine Biofouler, Acorn Barnacles (Amphibalanus Amphitrite), <i>Q. Lu, E. McGhee, W. Hervey, S. Tuck, D. Leary, C. Spillmann, Kenan Fears</i> , US Naval Research Laboratory |
| 9:40am | | BI-MoM-6 From Surface to Microbe: The Role of Copper in Marine Biofouling, <i>Sara Tuck, K. Fears</i> , Naval Research Laboratory |
| 10:00am | | BREAK |
| 10:20am | | INVITED: BI-MoM-8 Development of Joint Organoids for the Study of Tissue Integration and Immune Responses, <i>Gabriella Lindberg, M. Hofmann, N. Shchotkina, S. South, N. Willett</i> , University of Oregon |
| 10:40am | | |
| 11:00am | | BI-MoM-10 Metrology of 3D Cell Culture Systems , <i>Sally McArthur</i> , Deakin University, Australia |

Monday Evening, December 9, 2024

| Room Naupaka Salon 4 | |
|----------------------|--|
| 5:40pm | INVITED: TF1-MoE-1 Plasma Diagnostic-Based Plasma Processing for Semiconductor and Nanomaterial Manufacturing, <i>Hyo-Chang Lee</i> , Korea Aerospace University, Republic of Korea |
| 6:00pm | |
| 6:20pm | TF1-MoE-3 Tailoring High Temperature Anti-Oxidizing Coatings by Sol-Gel Chemistry for Enhanced Aeronautic Efficiency, <i>L. Lager</i> , University Lyon 1, France; <i>S. Senani-De Monredon</i> , <i>J. Delfosse</i> , Safran Tech, France; <i>S. Benayoun</i> , Ecole Centrale de Lyon, France; <i>Berangere Toury</i> , University Lyon 1, France |
| 6:40pm | TF1-MoE-4 Fabrication and Characterizations of Aluminum Doped Cadmium Oxide (Cdo:Al) Thin Film Using Sol-Gel Spin-Coating Method, <i>Moniruzzaman Syed</i> , <i>J. Massey</i> , <i>M. Hurd</i> , LeMoyné Owen College; <i>M. syeda</i> , University of Memphis |
| 7:00pm | TF1-MoE-5 Structural and Electronic Impact on Various Substrates of Tio2 Thin Film Using Sol-Gel Spin Coating Method, <i>Afrika Leiwis</i> , <i>T. Crosby</i> , <i>J. Muhammad</i> , LeMoyné Owen College; <i>M. Syeda</i> , University of Memphis; <i>M. Syed</i> , LeMoyné Owen College |
| 7:20pm | BREAK |
| 7:40pm | INVITED: TF2-MoE-7 In-Situ/Operando Soft X-Ray Measurements for Hydrogen Related Surface Functional Materials, <i>Ryo Toyoshima</i> , The University of Tokyo, Japan |
| 8:00pm | |
| 8:20pm | TF2-MoE-9 NAP HAXPES from Tender X-Ray Energies, <i>Paul Dietrich</i> , SPECS Surface Nano Analysis GmbH, Germany |
| 8:40pm | TF2-MoE-10 Redox XPS; Progressive <i>proxime situ</i> Oxidation in XPS (and SIMS) as an Aid to Spectrum Interpretation, <i>Peter Cumpson</i> , La Trobe University, Australia; <i>D. Devadasan</i> , Thermo Fisher Scientific, UK; <i>S. Gazzola</i> , University of Bath, U.K.; <i>T. Nunney</i> , Thermo Fisher Scientific, UK; <i>R. Weatherup</i> , Oxford University, UK |

Thin Films and Surface Modification
Session TF1-MoE
Thin Films - Materials I
Moderator:
Ryo Toyoshima, The University of Tokyo, Japan

Thin Films and Surface Modification
Session TF2-MoE
Thin Films - Characterization
Moderator:
Chen-Hao Wang, National Taiwan University of Science and Technology, Taiwan

Monday Evening, December 9, 2024

| Room Naupaka Salon 5 | |
|----------------------|---|
| 5:40pm | INVITED: BI1-MoE-1 Molecular Structure of Sputtered Species with Large Cluster Ions, <i>Jiro Matsuo</i> , Quantum Science and Engineering Center, Kyoto University, Japan |
| 6:00pm | |
| 6:20pm | BI1-MoE-3 GCIB-SIMS Analysis of Skin Cancer Samples, <i>John S. Fletcher</i> , <i>K. Sjögren Cehajic</i> , <i>K. Dimovska Nilsson</i> , <i>O. Zaar</i> , <i>D. Katsarelias</i> , <i>J. Paoli</i> , <i>R. Olofsson Bagge</i> , <i>N. Neittaanmäki</i> , University of Gothenburg, Sweden |
| 6:40pm | BI1-MoE-4 Depth Correction of 3D SIMS Depth Profiling Images of Biomaterials Using Only Secondary Ion Signal Intensities, <i>M. Brunet</i> , <i>B. Gorman</i> , <i>Mary Kraft</i> , University of Illinois Urbana-Champaign |
| 7:00pm | BI1-MoE-5 Label-Free High-Resolution Molecular Imaging of Sex Steroid Hormones in Zebrafish by Water Cluster Secondary Ion Mass Spectrometry (Cluster SIMS), <i>Kate McHardy</i> , <i>N. Sano</i> , Ionoptika Ltd., UK; <i>E. Lau</i> , <i>M. Bailey</i> , University of Surrey, U.K. |
| 7:20pm | BREAK |
| 7:40pm | INVITED: BI2-MoE-7 Advanced BioAFM for Temporal Analysis, <i>Amy Gelmi</i> , RMIT University, Australia |
| 8:00pm | |
| 8:20pm | BI2-MoE-9 Development of an Active Sustainable Polymer Based on Crosslinked Gelatin, <i>Monique Lacroix</i> , INRS Armand Frappier Health Biotechnology, Canada |
| 8:40pm | BI2-MoE-10 Sustainability Inspired Development of Next Generation Neural Interfacing and Neurostimulation Electrodes via Reactive Hierarchical Surface Restructuring, <i>Shahram Amini</i> , Pulse Technologies Inc.; <i>S. Shahbazmohamadi</i> , <i>H. Choi</i> , <i>A. Blagojevic</i> , <i>M. Maniscalco</i> , <i>P. Tavousi</i> , University of Connecticut |

Biomaterial Surfaces & Interfaces
Session BI1-MoE
Biomaterials/Interfaces - Characterization
Moderator:
David G. Castner, University of Washington

Biomaterial Surfaces & Interfaces
Session BI2-MoE
Biomaterials/Interfaces - Sustainable Materials
Moderator:
Gabriella Lindberg, University of Oregon

Tuesday Morning, December 10, 2024

| Room Naupaka Salon 4 | | |
|----------------------|--|--|
| 8:00am | | Renewable Energy and Energy Storage Session RE1-TuM Electrochemistry and Photocatalysis II Moderator: Craig Perkins, National Renewable Energy Laboratory |
| 8:20am | | |
| 8:40am | | |
| 9:00am | INVITED: RE1-TuM-4 Tuning Optoelectronic Properties of 2D Transition Metal Dichalcogenides and p-Conjugated Polymers, <i>Elisa Miller</i> , National Renewable Energy Laboratory | |
| 9:20am | | |
| 9:40am | RE1-TuM-6 Transition Metal Doped NiOx Faceted Nanosheets for Electrocatalytic Water Oxidation, <i>K. Ruecker</i> , German Aerospace Center Oldenburg, Germany; <i>D. Taffa</i> , Carl von Ossietzky University of Oldenburg, Germany; <i>E. Brim, D. Hayes</i> , Colorado School of Mines, USA; <i>J. Lorenz</i> , German Aerospace Center Oldenburg, Germany; <i>S. Alia, B. Pivovar</i> , National Renewable Energy Laboratory; <i>M. Risch</i> , Hemholtz Center Berlin, Germany; <i>C. Harms</i> , German Aerospace Center Oldenburg, Germany; <i>M. Wark</i> , Carl von Ossietzky University of Oldenburg, Germany; <i>Ryan Richards</i> , Colorado School of Mines, USA | |
| 10:00am | BREAK | |
| 10:20am | INVITED: RE2-TuM-8 Physical Properties Control of Metal-Hydride Thin Films and Application of Autonomous Synthesis Systems, <i>Ryota Shimizu</i> , The University of Tokyo, Japan | Renewable Energy and Energy Storage Session RE2-TuM Materials for Energy Conversion Moderator: Ryan Richards, Colorado School of Mines |
| 10:40am | | |
| 11:00am | RE2-TuM-10 Non-Precious Metal Electrocatalysts for Anion Exchange Membrane Fuel Cells, <i>Jin-Song Hu</i> , Institute of Chemistry Chinese Academy of Sciences, China | |
| 11:20am | INVITED: RE2-TuM-11 Elucidating Early-Stage Lithium Growth and Dendrite Suppression Strategies in Lithium Metal Batteries, <i>Seung-Yong Lee</i> , Hanyang University, Korea | |
| 11:40am | | |

Tuesday Morning, December 10, 2024

| Room Naupaka Salon 5 | | |
|----------------------|--|---|
| 8:00am | <p>Biomaterial Surfaces & Interfaces Session B11-TuM Biomaterials/Interfaces - Biointeractions Moderator: Kaori Sugihara, Institute of Industrial Science, the University of Tokyo, Japan</p> | |
| 8:20am | | |
| 8:40am | | <p>B11-TuM-3 Dynamic Supramolecular Gels for 3D Cell Culture, <i>A. Chalard, H. Porritt</i>, University of Auckland, New Zealand; <i>A. Taberner</i>, The University of Auckland, New Zealand; <i>J. Fitremann</i>, CNRS, France; Jenny Malmstrom, University of Auckland, New Zealand</p> |
| 9:00am | | <p>B11-TuM-4 Supercritical Angle Raman Microscopy (SAR-M): A Versatile Tool to Study Molecular Conformations at Surfaces on the Example of Amyloid and α-Synuclein Proteins, <i>N. Münch, S. Das, Stefan Seeger</i>, University of Zurich, Switzerland</p> |
| 9:20am | | <p>INVITED: B11-TuM-5 Biomimetic Leaf Surfaces as a Platform Technology to Study Bio-Interactions, Volker Nock, University of Canterbury, New Zealand; <i>S. Sale</i>, University of Canterbury, New Zealand; <i>A. Garrill</i>, University of Canterbury, New Zealand; <i>M. Bernach</i>, University of Canterbury, New Zealand, Germany; <i>M. Remus-Emsermann</i>, Freie Universität Berlin, Germany</p> |
| 9:40am | | |
| 10:00am | BREAK | |
| 10:20am | <p>Biomaterial Surfaces & Interfaces Session B12-TuM Biomaterials/Interfaces - Biosensing Moderator: Volker Nock, University of Canterbury, New Zealand</p> | |
| 10:40am | | <p>INVITED: B12-TuM-8 Mechanochromic Polymer, Polydiacetylene, for Force-, Bio-Sensing Applications, Kaori Sugihara, Institute of Industrial Science, the University of Tokyo, Japan</p> |
| 11:00am | | <p>INVITED: B12-TuM-10 Inspired by Nature: Next-Gen Multiplex Biosensing with Biomimetic Surfaces, Saimon Moraes Silva, 1/6 Patterson Street, Bonbeach, Australia</p> |
| 11:20am | | |
| 11:40am | <p>B12-TuM-12 Polyaniline-Gold Nanocomposite as an Electrode Material for Supercapacitor and Escherichia Coli Detection, Md Zaved Hossain Khan, Jashore University of Science and Technology, Bangladesh</p> | |

Biomaterial Surfaces & Interfaces

Room Naupaka Salon 1-3 - Session BI-MoP

Biomaterial Surfaces & Interfaces Poster Session

4:00pm

BI-MoP-1 Fabrication of Hydrogel-Based Optical Biosensor for Smart Intraocular Lens, **Soongeun Kwon**, Y. Eom, H. Choi, J. Ahn, S. Park, H. Lim, G. Kim, K. Choi, J. Lee, Korea Institute of Machinery and Materials, Republic of Korea

BI-MoP-2 Correlative Microscopy Without the Instrument Manufacturer; Using Computer-Readable Fiducial Markers to Navigate Specimens Irrespective of Who Made the Sample Stage, **Peter Cumpson**, La Trobe University, Australia

BI-MoP-3 Supervised MVA and Random Forests for Analysis of GCIB-SIMS Data from Bacteria, **John Fletcher**, University of Gothenburg, Sweden

BI-MoP-4 Establishing Semi-Oriented Crimped Dual-Sized Fibrous Skeleton for Soft Tissue Engineering Scaffolds, **Han Wang**, L. Ren, Deakin University, Australia, China; S. Zhao, Deakin University, Australia; H. Yang, Wuhan Textile University, China; L. Kong, Deakin University, Australia

Renewable Energy and Energy Storage

Room Naupaka Salon 1-3 - Session RE-TuP

Renewable Energy and Energy Storage Poster Session

4:00pm

RE-TuP-1 Graphene-Based Solar Cell Energy Harvester Intermittently Recharges a Battery-Powered Temperature Sensor System, **Paul Thibado**, J. Mangum, T. Amin, S. Rahman, R. Kabir, A. Ashaduzzaman, University of Arkansas; G. Carichner, H. Do, D. Blaauw, University of Michigan, Ann Arbor

RE-TuP-2 A Study on Robust VO₂ Protection Layer and Defect Inactivation in BiVO₄ Photoelectrodes through Photoelectrochemically Transition-Metal Engineering, **H. Cho**, **Kun Woong Lee**, School of Advanced Materials Science & Engineering, Sungkyunkwan University (SKKU), Republic of Korea

Thin Films and Surface Modification

Room Naupaka Salon 1-3 - Session TF-TuP

Thin Films and Surface Modification Poster Session I

4:00pm

TF-TuP-1 Effect of Ag Layer Thickness on the Transmittance and Conductivity of Transparent Antennas Fabricated Using ITO/Ag/ITO Structures, **Yoji Yasuda**, Y. Saitou, Tokyo Polytechnic University, Japan; F. Koshiji, Tokyo Polytechnic University, Japan; T. Uchida, Tokyo Polytechnic University, Japan

TF-TuP-2 Extending the Lifetime of Plasma Torch Electrodes Using a Layer of Carbon Nanotubes, **Alexandr Ustimenko**, V. Messerle, Affiliation, Kazakhstan

TF-TuP-3 Comparative Depth Analysis of Crystalline Phases in Copper Thin Films Using OrbiSims, **Jong Sung Jin**, J. Sung, Korea Basic Science Institute (KBSI), Republic of Korea

TF-TuP-4 Surface Chemistry and Growth Characteristics of SiN_x Films via Plasma-Enhanced Atomic Layer Deposition, **Ilkwon Oh**, Ajou University, Republic of Korea

TF-TuP-5 Enhanced Oxide versus Nitride Selectivity in Area-Selective Atomic Layer Deposition of SiO₂ Thin Films Combining Small Molecule Inhibitors with Atomic Layer Etching, **Jiwoo Oh**, J. Lee, W. Kim, Hanyang University, Korea

TF-TuP-6 Conductive Polymer Film Formation Using Plasma Process in Organic Solution According to Driving Power Condition, **Hyojun Jang**, J. Kim, H. Tae, Kyungpook National University, Republic of Korea

TF-TuP-7 UV Light Extinction Imaging Method for Monitoring Inkjet-Printed Organic Layer in Thin Film Encapsulation Process, **Jun Young Hwang**, J. Yu, H. Kang, Korea Institute of Industrial Technology, Republic of Korea; D. Lee, G. Yun, LG Electronics, Republic of Korea; S. Lee, Poongsan System Co., Ltd., Republic of Korea

TF-TuP-8 Room-Temperature Ferromagnetism Observed in Graphene Oxide Fabricated by AFM Lithography, **B. Park**, Department of Physics, Konkuk University, Republic of Korea; **DaYea Oh**, Department of Physics, Konkuk University, Republic of Korea; D. Lee, Department of Physics, Konkuk University, Republic of Korea; W. Kim, Korea Research Institute of Standards and Science, Republic of Korea; J. Choi, Center for Spintronics, Korea Institute of Science and Technology, Republic of Korea

TF-TuP-9 Reactive Ion Etching of Contact Hole for LTPS Process Using Low Global Warming Potential Gas, **Jun Won Jeong**, J. Hong, G. Yeom, Sungkyunkwan University (SKKU), Republic of Korea

Tuesday Evening, December 10, 2024

| Room Naupaka Salon 4 | | |
|----------------------|--|--|
| 5:40pm | | Nano and 2D Materials Session NM1-TuE Synthesis and Manipulation Moderator: Sarah Burke, University of British Columbia, Canada |
| 6:00pm | NM1-TuE-2 Using a Zeolite Imidazolate Framework-8 Nanomaterial for Adsorption and Removal of Thymol from Water and Heparin Recovery, Deepak Ganta , Texas A&M International University; M. Karimi Abdolmaleki , Texas A&M University-Corpus Christi; S. Gonzalez Torres , Texas A&M International University; C. Velazquez , Texas A&M International University | |
| 6:20pm | NM1-TuE-3 Interaction of Defects on Mxene Surfaces: Nonlinear and Anisotropic Effects, Steven Goldy , Colorado School of Mines, USA; G. Tucker , Baylor University; C. Ciobanu , Colorado School of Mines, USA | |
| 6:40pm | NM1-TuE-4 Synthesis of Uniform Borophene: In Situ Spectroscopic Analysis and Ex Situ Macroscopic Transfer, Marko Kralj , S. Kamal , B. Radatovic , V. Jadrisko , D. Novko , N. Vujicic , M. Petrovic , Center for Advanced Laser Techniques, Institute of Physics, Croatia | |
| 7:00pm | NM1-TuE-5 Design at Nanoscale of Thermostable Hybrid Sol-Gel Bondlayer to Functionalize Aeronautical CFRP by Thermal Spray, Sophie Senani-de Monredon , SAFRAN TECH, France; L. Rozes , Sorbonne Université, France; G. Penvern , SAFRAN TECH, Sorbonne Univ., France; A. Joulia , SAFRAN TECH, France; S. Bonebeau , SAFIR, France | |
| 7:20pm | BREAK | |
| 7:40pm | INVITED: NM2-TuE-7 First-Principles Study of Adsorption and Reaction on the Hydrogen Boride Sheet, Iktaro Hamada , Osaka University, Japan | Nano and 2D Materials Session NM2-TuE 2D Materials Based on Carbon and Boron Moderator: Akitoshi Shiotari, Fritz-Haber Institute, Germany |
| 8:00pm | | |
| 8:20pm | NM2-TuE-9 N-doped Graphene Synthesis through Nitrogen Ion Irradiation, Zbynek Novotny , Pacific Northwest National Laboratory; B. Alupothe Gedara , P. Evans , Z. Dohnalek , PNNL | |
| 8:40pm | NM2-TuE-10 Nanoscale Investigation of N-Heterocyclic Carbene Monolayers on Metal Surfaces, Francesco Tumino , Queen's University, Canada, Italy; E. DesRoche , M. Aloisio , D. Nanan , A. McLean , C. Crudden , Queen's University, Canada | |

Tuesday Evening, December 10, 2024

| Room Naupaka Salon 5 | |
|----------------------|--|
| 5:40pm | INVITED: TF1-TuE-1 Advanced Surface Engineering for Mass-Produced Medical Diagnostic Technology Addressing Tomorrow's Global Public Health Challenges, <i>Christopher Muratore, B. Robertson, M. Muratore</i> , University of Dayton; <i>N. Glavin</i> , Air Force Research Laboratory |
| 6:00pm | |
| 6:20pm | TF1-TuE-3 Development of Stretchable Plasma Patch using Kirigami Technique for Biomedical Applications, <i>Sunghoon Jung, J. Kim</i> , Korea Institute of Materials Science, Republic of Korea |
| 6:40pm | INVITED: TF1-TuE-4 Silver-Copper Coatings: Combating Microbes on Surfaces and in Air Filtration, <i>L. Reyes-Carmona</i> , UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO, CU, Mexico; <i>V. Perez-Bucio, A. Almaguer-Flores</i> , UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO; <i>O. Sepulveda-Robles</i> , Instituto Mexicano del Seguro Social, Mexico; <i>Sandra E Rodil</i> , UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO |
| 7:00pm | |
| 7:20pm | BREAK |
| 7:40pm | TF2-TuE-7 Guided Combinatorial Synthesis, High-Throughput Materials Characterization and Machine Learning Methods Expedite the Discovery of Improved Pt-Au Thin Films, <i>David Adams, T. Shilt, R. Kothari, K. Dorman, C. Martinez, C. Sobczak, S. Addamane, M. Jain, F. DelRio, M. Rodriguez, B. Boyce, R. Dingreville</i> , Sandia National Laboratories |
| 8:00pm | TF2-TuE-8 Dynamic Fracture of Copper/silica interfaces, <i>Cristian Ciobanu</i> , Colorado School of Mines and NIST; <i>F. Bobaru</i> , University of Nebraska-Lincoln, USA; <i>G. Stan</i> , National Institute of Standard and Technology, Gaithersburg, Maryland 20899 USA |
| 8:20pm | TF2-TuE-9 Maskless Localized Atomic Layer Deposition Applied to Surface Functionalization, <i>T. Souvignet, J. Carlotti, V. Salles, M. Maillard, Catherine Marichy</i> , Laboratoire des Multimatériaux et Interfaces - Université Claude Bernard Lyon 1, France |
| 8:40pm | TF2-TuE-10 Advanced Atomic Level Patterning Process by Area Selective Atomic Layer Deposition Integrating Atomic Layer Etching, <i>Seo-Hyun Lee, J. Lee, J. Oh, W. Kim</i> , Hanyang University, Korea |

**Thin Films and Surface Modification
Session TF1-TuE
Thin Films - Bio- and Medical-related
Moderator:
Seo-Hyun Lee, Hanyang University, Republic of Korea**

**Thin Films and Surface Modification
Session TF2-TuE
Thin Films - Processing
Moderator:
Christopher Muratore, University of Dayton**

Wednesday Morning, December 11, 2024

| Room Naupaka Salon 4 | | |
|-----------------------------|---|---|
| 8:00am | | Nano and 2D Materials Session NM1-WeM Surface Engineering and Characterization Moderator: Gregory S. Herman, Argonne National Laboratory |
| 8:20am | INVITED: NM1-WeM-2 Synthesis, Doping, and Encapsulation of 2D Transition Metal Dichalcogenides, <i>Yu-Chuan Lin</i> , National Yang Ming Chiao Tung University (NYCU), Taiwan | |
| 8:40am | | |
| 9:00am | INVITED: NM1-WeM-4 Small Clusters of Molecular Anions: Locally Probing a Model Hubbard System, <i>Sarah Burke</i> , University of British Columbia, Canada | |
| 9:20am | | |
| 9:40am | NM1-WeM-6 Tunable Areal Density and Defined Morphology Regimes of Langmuir Monolayers of PEGylated Gold Nanoparticles, <i>H. Cameron, I. Curtis, R. Takai</i> , Mount Allison University, Canada; <i>M. Radford</i> , Simon Fraser University, Canada; <i>A. Williams</i> , Mount Allison University, Canada; <i>B. Gates</i> , Simon Fraser University, Canada; <i>M.-Vicki Meli</i> , Mount Allison University, Canada | |
| 10:00am | BREAK | |
| 10:20am | INVITED: NM2-WeM-8 Atomic-Scale Control of Plasmon-Driven Single-Molecular Switch, <i>Akitoshi Shiotari</i> , Fritz-Haber Institute, Germany | Nano and 2D Materials Session NM2-WeM Properties of 2D Materials Moderator: Zbynek Novotny, Pacific Northwest National Laboratory |
| 10:40am | | |
| 11:00am | NM2-WeM-10 Tunable Metasurface with Gap and Collective Surface Plasmon Modes, <i>Anatoliy Pinchuk</i> , University of Colorado at Colorado Springs | |
| 11:20am | NM2-WeM-11 Probing Inherent Optical Anisotropy in Transition Metal Dichalcogenide Substrates via Mie Scattering-Induced Surface Analysis (MISA), <i>H. Woo</i> , Korea Research Institute of Standards and Science, Republic of Korea; <i>J. Han, S. Ji, B. Shin</i> , Sungkyunkwan University (SKKU), Republic of Korea; <i>S. Lee</i> , Nanyang Technological University, Singapore; <i>Young Jae Song</i> , Sungkyunkwan University (SKKU), Republic of Korea | |
| 11:40am | NM2-WeM-12 Enhancement of Photocatalytic Water Splitting Upon Induced Structural Evolution and Increase of Phase Polarity of Two-Dimensional Covalent Organic Frameworks, <i>Jrjeng Ruan</i> , National Cheng Kung University (NCKU), Taiwan | |

Nano and 2D Materials

Room Naupaka Salon 1-3 - Session NM-WeP

Nano and 2D Materials Poster Session

4:00pm

NM-WeP-1 Introduction to Measurement Uncertainty Evaluation Method and Results of Silicon Nitride Thin Film Layer Thickness and Complex Dielectric Constant, **Yang Jai Cho**, *W. Chegal*, Korea Research Institute of Standards and Science, Republic of Korea

NM-WeP-2 A New Tool for Single Ion Implantation and Nanoscale Materials Engineering: System Design and Source Development, **Paul Blenkinsopp**, Ionoptika Ltd., UK; *K. McHardy*, Ionoptika, Ltd., UK; *G. Aresta*, Ionoptika Ltd., UK

NM-WeP-3 Graphene-Incorporated Dielectric Composites by Varying the Mixing Method and Degree of Oxidation of Graphene, **S. Jun, Kwangsin John Ahn**, *S. Yu*, Hankuk University of Foreign Studies, Republic of Korea

NM-WeP-4 Deep Learning-Based Prediction of Adsorption Energies for MoO_2Cl_2 Precursor on SiO_2 Surface Using Density Functional Theory, **Do-Hyun Kwon, J. Lee**, Korea University of Technology and Education, Republic of Korea; *J. Kim*, Pohang University of Science and Technology (POSTECH), Republic of Korea; *Y. Kim*, Korea University of Technology and Education, Republic of Korea

NM-WeP-5 Induced Self-Assembly of Small (3 - 5 nm) Nanoparticles Into Flexible Nanofilms at Air- and Oil-Water Interfaces, **H. Cameron, Y. Zhang, K. Leslie, B. Scott, I. Curtis, L. Gamble, M.-Vicki Meli**, Mount Allison University, Canada

NM-WeP-6 Molecular Structure and Vapor Pressure of Molybdenum Pentachloride Using Ab-Initio Thermodynamics, **N. Lee**, Korea University of Technology and Education, Republic of Korea; *S. Kim, J. Kim, Yeong-Cheol Kim*, Korea University of Technology and Education, Republic of Korea

NM-WeP-7 Isotropic Atomic Layer Control of 2d Ws_2 Using Organic Solvent Vapor, **Hye Won Han, J. Kang, J. Kim, G. Yeom**, Sungkyunkwan University, Republic of Korea

NM-WeP-8 Uniform Vertical Doping of TMDC Materials via , **Jimin Kim, J. Kang, H. Han, G. Yeom**, Sungkyunkwan University, Republic of Korea

Thin Films and Surface Modification

Room Naupaka Salon 1-3 - Session TF-WeP

Thin Films and Surface Modification Poster Session II

4:00pm

TF-WeP-1 Annealing Temperature Effects on Liquid Crystal Behavior and Electro-Optical Properties in Inorganic Alignment Films, **H. Lee, J. Sim**, Ulsan National Institute of Science Technology, Republic of Korea; **Hong-Gyu Park**, Changwon National University, Republic of Korea

TF-WeP-3 Synaptic Characteristics of Memristive $\text{Au/LiNbO}_3/\text{Pt}$ Device Based on Schottky Barrier Modulation, **Sejoon Lee, Y. Lee, D. Kim**, Dongguk University, Republic of Korea

TF-WeP-4 X-Ray Photoelectron Spectroscopy and X-Ray Emission Spectroscopy Data Fitting Using a Genetic Algorithm, **Alaina Humiston, J. Terry**, Illinois Institute of Technology

TF-WeP-5 Synaptic Characteristics of $\text{Au/Hf}_x\text{Zr}_{1-x}\text{O}_2/\text{Pt}$ Memristors Based on Double-Barrier Schottky Junctions, **Youngmin Lee, S. Lee, D. Kim**, Dongguk University, Republic of Korea

TF-WeP-6 Isotope Labeling Study of CO_2 Formation Pathways in $\text{CO-H}_2\text{O}$ Ice Films under Ultraviolet Irradiation, **Koichiro Yamakawa, A. Hirayama, I. Arakawa**, Japan Atomic Energy Agency, Japan

TF-WeP-10 Synthesis and Characterization of Mo and W Compounds for Disulfide Materials, **Sunyoung Shin, C. Kim, T. Chung, B. Park**, Korea Research Institute of Chemical Technology (KRICT), Republic of Korea

TF-WeP-11 Creating Multiple Catalytic Sites for Enhanced CO_2 Photoreduction Activity Through Synergistic Catalysis of MIL-TiO₂-PI Hybrids, **Lipei Ren, H. Wang**, Deakin University, Australia, China; *M. Laghaei*, Deakin University, Australia, Iran (Islamic Republic of); *S. zhao, L. Kong*, Deakin University, Australia

TF-WeP-12 Synthesis of Novel Yttrium and Lanthanide Precursors and Fabrication of La_2O_3 Thin Films Through High-Temperature ALD, **Youngmin GO, B. Park**, Korea Research Institute of Chemical Technology (KRICT), Republic of Korea; *T. Park*, Hanyang University, Korea

TF-WeP-13 X-Ray Photoelectron Spectroscopy Analysis of Gallium Nitride Thin Film Prepared by Atomic Layer Deposition, **Y. Choi, H. Yoo, H. Kim, W. Lee, Sun Jae Kim**, Sejong University, Republic of Korea

Wednesday Evening, December 11, 2024

| Room Naupaka Salon 4 | |
|----------------------|--|
| 5:40pm | INVITED: TF1-WeE-1 Superlubricity: Toward Design of Zero-Friction and Zero-Wear Materials, <i>Diana Berman</i> , University of North Texas |
| 6:00pm | |
| 6:20pm | TF1-WeE-3 Langmuir Monolayer Studies of First-Generation Photoswitchable DASA Surfactants, <i>H. Kaur</i> , University of Saskatchewan, Canada; <i>S. Sumat, S. Murphy</i> , University of Regina, Canada; Matthew Paige , University of Saskatchewan, Canada |
| 6:40pm | TF1-WeE-4 Precise Synthesis of Covalent Organic Framework Thin Films, Dong Wang , Institute of Chemistry, Chinese Academy of Sciences, China |
| 7:00pm | |
| 7:20pm | BREAK |
| 7:40pm | INVITED: TF2-WeE-7 On the Growth of Cubic Boron Nitride Thin Films Using High-Power Impulse Magnetron Sputtering, Tetsuhide Shimizu , <i>H. Nagakura</i> , Tokyo Metropolitan University, Japan; <i>Y. Tokuta</i> , Tokyo Metropolitan Industrial Technology Research Institute, Japan; <i>I. Fernandez</i> , Nano4Energy, Spain; <i>R. Boyd</i> , Linköping University, Japan; <i>D. Lundin, U. Helmersson</i> , Linköping University, Sweden |
| 8:00pm | |
| 8:20pm | TF2-WeE-9 Physical Properties of Pure Vanadium Nitrides Thin Films, Marjorie Cavarroc , <i>J. Neyrat</i> , Safran, France; <i>D. Marquez, D. Michau, A. Poulon-Quintin</i> , ICMCB, France |
| 8:40pm | TF2-WeE-10 Sputter Depth Profile Study of Zrn as a Barrier to Silver Migration in Triso Fuels Using the XPS Neo Artificial Intelligence Fitting Package, Jeff Terry , Illinois Institute of Technology |

Thin Films and Surface Modification
Session TF1-WeE
Thin Films - Properties
Moderator:
Tetsuhide Shimizu, Tokyo Metropolitan University, Japan

Thin Films and Surface Modification
Session TF2-WeE
Thin Films - Materials II
Moderator:
Diana Berman, University of North Texas

Thursday Morning, December 12, 2024

| Room Naupaka Salon 4 | | |
|----------------------|---|---|
| 8:00am | | Thin Films and Surface Modification Session TF1-ThM Thin Films - Plasma and Etching-related Moderator: Gregory S. Herman, Argonne National Laboratory |
| 8:20am | TF1-ThM-2 Reactive Ion Etching of InGaZnO using HFC-based Gas and Chamber Cleaning, Sang Jin Lee, J. Hong , Sungkyunkwan University, Republic of Korea; Y. Jeong, H. Cho, D. Jung, Y. Yeo , Samsung Display, Republic of Korea; D. Kim, G. Yeom , Sungkyunkwan University, Republic of Korea | |
| 8:40am | TF1-ThM-3 Eco-Friendly Dry-Cleaning of Silicon Dioxide Deposition Chambers using a Cylinder-Type Remote Plasma Source with NF ₃ /N ₂ Mixtures, Won Kyun Yeom, H. Gil , Sungkyunkwan University, Republic of Korea; G. Yeom , Sungkyunkwan University (SKKU), Republic of Korea | |
| 9:00am | INVITED: TF1-ThM-4 Innovative Fluorite-Based High-Entropy Oxide: A Novel Electrocatalyst for All-Vanadium Redox Flow Batteries, Chen-Hao Wang , National Taiwan University of Science and Technology, Taiwan | |
| 9:20am | | |
| 9:40am | | |
| 10:00am | BREAK | |
| 10:20am | TF2-ThM-8 Wafer-Level Glassblowing Process for Fabrication of 3d Micro-Resonators and Associated Imperfections Due to Surface Modifications and Change in Material Composition, Andrei Shkel , University of California Irvine | Thin Films and Surface Modification Session TF2-ThM Thin Films - Surface Modifications Moderator: Hyo-Chang Lee, Korea Aerospace University, Republic of Korea |
| 10:40am | TF2-ThM-9 Relationship between the Uniformity of the r- and S-plane nanofaceted Substrate and the Nuclei Formation for Molecular Beam Epitaxial Layer of ZnTe on Sapphire, Shumpei Tanaka, M. Kobayashi , Waseda university, Japan | |
| 11:00am | INVITED: TF2-ThM-10 Atomic Force Microscope-Based Surface Investigation of Low-Dimensional Materials and Fabrication of the Microscale Probes, Sangmin An , Jeonbuk National University, Republic of Korea | |
| 11:20am | | |

Thursday Morning, December 12, 2024

| Room Naupaka Salon 5 | | |
|----------------------|--|--|
| 8:00am | | Nano and 2D Materials Session NM1-ThM Nanomaterials - Properties and Applications I Moderator: Santosh KC, San Diego State University |
| 8:20am | | |
| 8:40am | INVITED: NM1-ThM-3 Different Directions In Layered Materials, <i>Joshua Goldberger</i> , The Ohio State University | |
| 9:00am | | |
| 9:20am | NM1-ThM-5 Evaluation of Vapor Pressure of MoO_2Cl_2 and Its Initial Chemical Reaction on a SiO_2 Surface by Ab Initio Thermodynamics, <i>H. Kim, N. Lee, Yeong-Cheol Kim</i> , Korea University of Technology and Education, Republic of Korea | |
| 9:40am | NM1-ThM-6 Development of TiAl Alloys: A Future Light-Weight Material for Extreme Condition, <i>Seong-Woong Kim</i> , Korea Institute of Materials Science, Republic of Korea | |
| 10:00am | BREAK | |
| 10:20am | NM2-ThM-8 2D Metal Carbides (MXenes) for Catalysis, <i>Yue Wu</i> , Iowa State University | Nano and 2D Materials Session NM2-ThM Nanomaterials - Properties and Applications II Moderator: Yu-Chuan Lin, National Yang Ming Chiao Tung University (NYCU), Taiwan |
| 10:40am | NM2-ThM-9 Investigating 2D-Materials Using Correlative Spectroscopy & Microscopy, <i>James Lallo, L. Ping, T. Nunney, P. Mack, R. Simpson, H. Tseng</i> , Thermo Fisher Scientific | |
| 11:00am | NM2-ThM-10 Electronic, and Optical Properties of 2D Metal Chalcogenophosphates, <i>H. Chiu, Santosh KC</i> , San Diego State University | |
| | | |

Bold page numbers indicate presenter

— A —

Adams, D.: TF2-TuE-7, **11**
 Addamane, S.: TF2-TuE-7, **11**
 Ahn, J.: BI-MoP-1, **9**
 Ahn, K.: NM-WeP-3, **13**
 Alia, S.: RE1-TuM-6, **7**
 Allansson, D.: RE2-MoM-9, **3**
 Almaguer-Flores, A.: TF1-TuE-4, **11**
 Aloisio, M.: NM2-TuE-10, **10**
 Alupothe Gedara, B.: NM2-TuE-9, **10**
 Amann, P.: RE2-MoM-9, **3**
 Amin, T.: RE-TuP-1, **9**
 Amini, S.: BI2-MoE-10, **6**
 An, S.: TF2-ThM-10, **15**
 Arakawa, I.: TF-WeP-6, **13**
 Aresta, G.: NM-WeP-2, **13**
 Ashaduzzaman, A.: RE-TuP-1, **9**

— B —

Bailey, M.: BI1-MoE-5, **6**
 Benayoun, S.: TF1-MoE-3, **5**
 Berman, D.: TF1-WeE-1, **14**
 Bernach, M.: BI1-TuM-5, **8**
 Blaauw, D.: RE-TuP-1, **9**
 Blagojevic, A.: BI2-MoE-10, **6**
 Blenkinsopp, P.: NM-WeP-2, **13**
 Bobaru, F.: TF2-TuE-8, **11**
 Bonebeau, S.: NM1-TuE-5, **10**
 Boyce, B.: TF2-TuE-7, **11**
 Boyd, R.: TF2-WeE-7, **14**
 Brim, E.: RE1-TuM-6, **7**
 Brunet, M.: BI1-MoE-4, **6**
 Burke, S.: NM1-WeM-4, **12**

— C —

Cameron, H.: NM1-WeM-6, **12**; NM-WeP-5, **13**
 Carichner, G.: RE-TuP-1, **9**
 Carlotti, J.: TF2-TuE-9, **11**
 Cavarroc, M.: TF2-WeE-9, **14**
 Chalard, A.: BI1-TuM-3, **8**
 Chegal, W.: NM-WeP-1, **13**
 Chiu, H.: NM2-ThM-10, **16**
 Cho, H.: RE-TuP-2, **9**; TF1-ThM-2, **15**
 Cho, Y.: NM-WeP-1, **13**
 Choi, H.: BI2-MoE-10, **6**; BI-MoP-1, **9**
 Choi, J.: TF-TuP-8, **9**
 Choi, K.: BI-MoP-1, **9**
 Choi, Y.: TF-WeP-13, **13**
 Chung, T.: TF-WeP-10, **13**
 Ciobanu, C.: NM1-TuE-3, **10**; TF2-TuE-8, **11**
 Crosby, T.: TF1-MoE-5, **5**
 Crudden, C.: NM2-TuE-10, **10**
 Cumpson, P.: BI-MoP-2, **9**; TF2-MoE-10, **5**
 Curtis, I.: NM1-WeM-6, **12**; NM-WeP-5, **13**

— D —

Das, S.: BI1-TuM-4, **8**
 Delfosse, J.: TF1-MoE-3, **5**
 DelRio, F.: TF2-TuE-7, **11**
 DesRoche, E.: NM2-TuE-10, **10**
 Devadasan, D.: TF2-MoE-10, **5**
 Dietrich, P.: TF2-MoE-9, **5**
 Dimovska Nilsson, K.: BI1-MoE-3, **6**
 Dingreville, R.: TF2-TuE-7, **11**
 Do, H.: RE-TuP-1, **9**
 Dohnalek, Z.: NM2-TuE-9, **10**
 Dorman, K.: TF2-TuE-7, **11**

— E —

Eom, Y.: BI-MoP-1, **9**
 Evans, P.: NM2-TuE-9, **10**

— F —

Fears, K.: BI-MoM-5, **4**; BI-MoM-6, **4**
 Fernandez, I.: TF2-WeE-7, **14**
 Fitremann, J.: BI1-TuM-3, **8**
 Fletcher, J.: BI1-MoE-3, **6**; BI-MoP-3, **9**

— G —

Gamble, L.: NM-WeP-5, **13**
 Ganta, D.: NM1-TuE-2, **10**
 Garrill, A.: BI1-TuM-5, **8**
 Gates, B.: NM1-WeM-6, **12**
 Gazzola, S.: TF2-MoE-10, **5**
 Gelmi, A.: BI2-MoE-7, **6**
 Gil, H.: TF1-ThM-3, **15**
 Glavin, N.: TF1-TuE-1, **11**
 GO, Y.: TF-WeP-12, **13**
 Goldberger, J.: NM1-ThM-3, **16**
 Goldy, S.: NM1-TuE-3, **10**
 Gonzalez Torres, S.: NM1-TuE-2, **10**
 Gorman, B.: BI1-MoE-4, **6**

— H —

Hamada, I.: NM2-TuE-7, **10**
 Han, H.: NM-WeP-7, **13**; NM-WeP-8, **13**
 Han, J.: NM2-WeM-11, **12**
 Harms, C.: RE1-TuM-6, **7**
 Hayes, D.: RE1-TuM-6, **7**
 Helmersson, U.: TF2-WeE-7, **14**
 Hervey, W.: BI-MoM-5, **4**
 Hirayama, A.: TF-WeP-6, **13**
 Hofmann, M.: BI-MoM-8, **4**
 Hong, J.: TF1-ThM-2, **15**; TF-TuP-9, **9**
 Hu, J.: RE2-TuM-10, **7**
 Humiston, A.: TF-WeP-4, **13**
 Hurd, M.: TF1-MoE-4, **5**
 Hwang, J.: TF-TuP-7, **9**

— J —

Jadrisko, V.: NM1-TuE-4, **10**
 Jain, M.: TF2-TuE-7, **11**
 Jang, H.: TF-TuP-6, **9**
 Jeong, J.: TF-TuP-9, **9**
 Jeong, Y.: TF1-ThM-2, **15**
 Ji, S.: NM2-WeM-11, **12**
 Jin, J.: TF-TuP-3, **9**
 Joulia, A.: NM1-TuE-5, **10**
 Jun, S.: NM-WeP-3, **13**
 Jung, D.: TF1-ThM-2, **15**
 Jung, S.: TF1-TuE-3, **11**

— K —

Kabir, R.: RE-TuP-1, **9**
 Kamal, S.: NM1-TuE-4, **10**
 Kang, H.: TF-TuP-7, **9**
 Kang, J.: NM-WeP-7, **13**; NM-WeP-8, **13**
 Karimi Abdolmaleki, M.: NM1-TuE-2, **10**
 Katsarelis, D.: BI1-MoE-3, **6**
 Kaur, H.: TF1-WeE-3, **14**
 KC, S.: NM2-ThM-10, **16**
 Khan, M.: BI2-TuM-12, **8**
 Kim, C.: TF-WeP-10, **13**
 Kim, D.: TF1-ThM-2, **15**; TF-WeP-3, **13**; TF-WeP-5, **13**
 Kim, G.: BI-MoP-1, **9**
 Kim, H.: NM1-ThM-5, **16**; TF-WeP-13, **13**
 Kim, J.: NM-WeP-4, **13**; NM-WeP-6, **13**; NM-WeP-7, **13**; NM-WeP-8, **13**; TF1-TuE-3, **11**; TF-TuP-6, **9**
 Kim, S.: NM1-ThM-6, **16**; NM-WeP-6, **13**; TF-WeP-13, **13**
 Kim, W.: TF2-TuE-10, **11**; TF-TuP-5, **9**; TF-TuP-8, **9**
 Kim, Y.: NM1-ThM-5, **16**; NM-WeP-4, **13**; NM-WeP-6, **13**
 Kobayashi, M.: TF2-ThM-9, **15**
 Kong, L.: BI-MoP-4, **9**; TF-WeP-11, **13**
 Koshiji, F.: TF-TuP-1, **9**
 Kothari, R.: TF2-TuE-7, **11**
 Kraft, M.: BI1-MoE-4, **6**
 Kralj, M.: NM1-TuE-4, **10**
 Kwon, D.: NM-WeP-4, **13**
 Kwon, S.: BI-MoP-1, **9**

— L —

Lacroix, M.: BI2-MoE-9, **6**
 Lager, L.: TF1-MoE-3, **5**
 Laghaei, M.: TF-WeP-11, **13**
 Lallo, J.: NM2-ThM-9, **16**
 Lau, E.: BI1-MoE-5, **6**
 Leary, D.: BI-MoM-5, **4**
 Lee, D.: TF-TuP-7, **9**; TF-TuP-8, **9**
 Lee, H.: TF1-MoE-1, **5**; TF-WeP-1, **13**
 Lee, J.: BI-MoP-1, **9**; NM-WeP-4, **13**; TF2-TuE-10, **11**; TF-TuP-5, **9**
 Lee, K.: RE-TuP-2, **9**
 Lee, N.: NM1-ThM-5, **16**; NM-WeP-6, **13**
 Lee, S.: NM2-WeM-11, **12**; RE2-TuM-11, **7**; TF1-ThM-2, **15**; TF2-TuE-10, **11**; TF-TuP-7, **9**; TF-WeP-3, **13**; TF-WeP-5, **13**
 Lee, W.: TF-WeP-13, **13**
 Lee, Y.: TF-WeP-3, **13**; TF-WeP-5, **13**
 Leiws, A.: TF1-MoE-5, **5**
 Leslie, K.: NM-WeP-5, **13**
 Lim, H.: BI-MoP-1, **9**
 Lin, Y.: NM1-WeM-2, **12**
 Lindberg, G.: BI-MoM-8, **4**
 Liu, D.: RE1-MoM-5, **3**
 Lorenz, J.: RE1-TuM-6, **7**
 Lovell, E.: RE1-MoM-6, **3**
 Lu, Q.: BI-MoM-5, **4**
 Lundin, D.: TF2-WeE-7, **14**
 Lundwall, M.: RE2-MoM-9, **3**

— M —

Mack, P.: NM2-ThM-9, **16**
 Maillard, M.: TF2-TuE-9, **11**
 Malmstrom, J.: BI1-TuM-3, **8**
 Mangum, J.: RE-TuP-1, **9**
 Maniscalco, M.: BI2-MoE-10, **6**
 Marichy, C.: TF2-TuE-9, **11**
 Marquez, D.: TF2-WeE-9, **14**
 Martinez, C.: TF2-TuE-7, **11**
 Massey, J.: TF1-MoE-4, **5**
 Matsuo, J.: BI1-MoE-1, **6**
 McArthur, S.: BI-MoM-10, **4**
 McGhee, E.: BI-MoM-5, **4**
 McHardy, K.: BI1-MoE-5, **6**; NM-WeP-2, **13**
 McLean, A.: NM2-TuE-10, **10**
 Meli, M.: NM1-WeM-6, **12**; NM-WeP-5, **13**
 Messerle, V.: TF-TuP-2, **9**
 Michau, D.: TF2-WeE-9, **14**
 Miller, E.: RE1-TuM-4, **7**
 Moraes Silva, S.: BI2-TuM-10, **8**
 Muhammad, J.: TF1-MoE-5, **5**
 Münch, N.: BI1-TuM-4, **8**
 Muratore, C.: TF1-TuE-1, **11**
 Muratore, M.: TF1-TuE-1, **11**
 Murphy, S.: TF1-WeE-3, **14**

— N —

Nagakura, H.: TF2-WeE-7, **14**
 Nanan, D.: NM2-TuE-10, **10**
 Neittaänmäki, N.: BI1-MoE-3, **6**
 Neyrat, J.: TF2-WeE-9, **14**
 Nock, V.: BI1-TuM-5, **8**
 Novko, D.: NM1-TuE-4, **10**
 Novotny, Z.: NM2-TuE-9, **10**
 Nunney, T.: NM2-ThM-9, **16**; TF2-MoE-10, **5**

— O —

Oh, D.: TF-TuP-8, **9**
 Oh, I.: TF-TuP-4, **9**
 Oh, J.: TF2-TuE-10, **11**; TF-TuP-5, **9**
 Olofsson Bagge, R.: BI1-MoE-3, **6**

— P —

Paige, M.: TF1-WeE-3, **14**
 Paoli, J.: BI1-MoE-3, **6**
 Park, B.: TF-TuP-8, **9**; TF-WeP-10, **13**; TF-WeP-12, **13**

Author Index

- Park, H.: TF-WeP-1, **13**
Park, J.: RE1-MoM-3, **3**
Park, S.: BI-MoP-1, **9**
Park, T.: TF-WeP-12, **13**
Penvern, G.: NM1-TuE-5, **10**
Perez-Bucio, V.: TF1-TuE-4, **11**
Perkins, C.: RE2-MoM-10, **3**
Petrovic, M.: NM1-TuE-4, **10**
Pinchuk, A.: NM2-WeM-10, **12**
Ping, L.: NM2-ThM-9, **16**
Pivovar, B.: RE1-TuM-6, **7**
Porritt, H.: BI1-TuM-3, **8**
Poulon-Quintin, A.: TF2-WeE-9, **14**
- **R** —
Radatovic, B.: NM1-TuE-4, **10**
Radford, M.: NM1-WeM-6, **12**
Rahman, S.: RE-TuP-1, **9**
Razal, J.: RE2-MoM-8, **3**
Remus-Emsermann, M.: BI1-TuM-5, **8**
Ren, L.: BI-MoP-4, **9**; TF-WeP-11, **13**
Reyes-Carmona, L.: TF1-TuE-4, **11**
Richards, R.: RE1-TuM-6, **7**
Risch, M.: RE1-TuM-6, **7**
Robertson, B.: TF1-TuE-1, **11**
Rodil, S.: TF1-TuE-4, **11**
Rodriguez, M.: TF2-TuE-7, **11**
Rozes, L.: NM1-TuE-5, **10**
Ruan, J.: NM2-WeM-12, **12**
Ruecker, K.: RE1-TuM-6, **7**
- **S** —
Saitou, Y.: TF-TuP-1, **9**
Sale, S.: BI1-TuM-5, **8**
Salles, V.: TF2-TuE-9, **11**
Sano, N.: BI1-MoE-5, **6**
Scott, B.: NM-WeP-5, **13**
Seeger, S.: BI1-TuM-4, **8**
Senani-de Monredon, S.: NM1-TuE-5, **10**
Senani-De Monredon, S.: TF1-MoE-3, **5**
Sepulveda-Robles, O.: TF1-TuE-4, **11**
Shahbazmohamadi, S.: BI2-MoE-10, **6**
- Shao-Horn, Y.: PL-MoM-11, **3**
Shchotkina, N.: BI-MoM-8, **4**
Shilt, T.: TF2-TuE-7, **11**
Shimizu, R.: RE2-TuM-8, **7**
Shimizu, T.: TF2-WeE-7, **14**
Shin, B.: NM2-WeM-11, **12**
Shin, S.: TF-WeP-10, **13**
Shiotari, A.: NM2-WeM-8, **12**
Shkel, A.: TF2-ThM-8, **15**
Sim, J.: TF-WeP-1, **13**
Simpson, R.: NM2-ThM-9, **16**
Sjögren Cehajic, K.: BI1-MoE-3, **6**
Sloboda, T.: RE2-MoM-9, **3**
Sobczak, C.: TF2-TuE-7, **11**
Song, Y.: NM2-WeM-11, **12**
South, S.: BI-MoM-8, **4**
Souvignet, T.: TF2-TuE-9, **11**
Spillmann, C.: BI-MoM-5, **4**
Stan, G.: TF2-TuE-8, **11**
Sugihara, K.: BI2-TuM-8, **8**
Sumat, S.: TF1-WeE-3, **14**
Sung, J.: TF-TuP-3, **9**
Syed, M.: TF1-MoE-4, **5**; TF1-MoE-5, **5**
syeda, M.: TF1-MoE-4, **5**
Syeda, M.: TF1-MoE-5, **5**
- **T** —
Taberner, A.: BI1-TuM-3, **8**
Tae, H.: TF-TuP-6, **9**
Taffa, D.: RE1-TuM-6, **7**
Takai, R.: NM1-WeM-6, **12**
Tanaka, S.: TF2-ThM-9, **15**
Tavousi, P.: BI2-MoE-10, **6**
Terry, J.: TF2-WeE-10, **14**; TF-WeP-4, **13**
Thibado, P.: RE-TuP-1, **9**
Tokuta, Y.: TF2-WeE-7, **14**
Tourey, B.: TF1-MoE-3, **5**
Toyoshima, R.: TF2-MoE-7, **5**
Tseng, H.: NM2-ThM-9, **16**
Tuck, S.: BI-MoM-5, **4**; BI-MoM-6, **4**
Tucker, G.: NM1-TuE-3, **10**
- Tumino, F.: NM2-TuE-10, **10**
- **U** —
Uchida, T.: TF-TuP-1, **9**
Ustimenko, A.: TF-TuP-2, **9**
- **V** —
Velazquez, C.: NM1-TuE-2, **10**
Vujjic, N.: NM1-TuE-4, **10**
- **W** —
Wang, C.: TF1-ThM-4, **15**
Wang, D.: TF1-WeE-4, **14**
Wang, H.: BI-MoP-4, **9**; TF-WeP-11, **13**
Wang, Z.: RE2-MoM-8, **3**
Wark, M.: RE1-TuM-6, **7**
Weatherup, R.: TF2-MoE-10, **5**
Willett, N.: BI-MoM-8, **4**
Williams, A.: NM1-WeM-6, **12**
Woo, H.: NM2-WeM-11, **12**
Wu, Y.: NM2-ThM-8, **16**
- **Y** —
Yamakawa, K.: TF-WeP-6, **13**
Yang, H.: BI-MoP-4, **9**
YANG, Z.: RE2-MoM-8, **3**
Yasuda, Y.: TF-TuP-1, **9**
Yeo, Y.: TF1-ThM-2, **15**
Yeom, G.: NM-WeP-7, **13**; NM-WeP-8, **13**;
TF1-ThM-2, **15**; TF1-ThM-3, **15**; TF-TuP-9, **9**
Yeom, W.: TF1-ThM-3, **15**
Yoo, H.: TF-WeP-13, **13**
Yost, A.: RE2-MoM-9, **3**
Yu, J.: TF-TuP-7, **9**
Yu, S.: NM-WeP-3, **13**
Yun, G.: TF-TuP-7, **9**
- **Z** —
Zaar, O.: BI1-MoE-3, **6**
Zhang, X.: RE2-MoM-9, **3**
Zhang, Y.: NM-WeP-5, **13**
zhao, S.: TF-WeP-11, **13**
Zhao, S.: BI-MoP-4, **9**