

# 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		<b>Renewable Energy and Energy Storage Session RE1-MoM Electrochemistry and Photocatalysis I</b> <b>Moderator:</b> <b>Craig Perkins, National Renewable Energy Laboratory</b>
8:20am		
8:40am	<b>INVITED: RE1-MoM-3</b> Hot Carrier-Driven Plasmonic Photoelectrochemical Processes, <i>Jeong Young Park</i> , KAIST, Republic of Korea	
9:00am		
9:20am	<b>RE1-MoM-5</b> Next-Generation Electrocatalysts Derived from Metal-Organic Frameworks for Hydrogen Production and Conversion, <i>Di-Jia Liu</i> , Argonne National Laboratory	
9:40am	<b>RE1-MoM-6</b> Defective Metal Oxides for Electrochemical Ammonia Synthesis, <i>Emma Lovell</i> , University of New South Wales, Australia	
10:00am	<b>BREAK</b>	
10:20am	<b>INVITED: RE2-MoM-8</b> Multifunctional Coating for Solar Module Glass, <i>Ning Song</i> , UNSW, Australia	<b>Renewable Energy and Energy Storage Session RE2-MoM Surfaces and Interfaces in Photovoltaics</b> <b>Moderator:</b> <b>Elisa Miller, National Renewable Energy Laboratory</b>
10:40am		
11:00am	<b>RE2-MoM-10</b> 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	<b>INVITED: PL-MoM-11</b> Invited Paper: Plenary Lecture, <i>Yang Shao-Horn</i> , MIT	<b>Plenary Session Session PL-MoM Plenary Session</b> <b>Moderator:</b> <b>Gregory S. Herman, Argonne National Laboratory</b>
11:40am		

# Monday Morning, December 9, 2024

Room Naupaka Salon 5	
8:00am	
8:20am	
8:40am	
9:00am	
9:20am	
9:40am	
10:00am	<b>BREAK</b>
10:20am	<b>INVITED: BI-MoM-8</b> Development of Joint Organoids for the Study of Tissue Integration and Immune Responses, <b>Gabriella Lindberg</b> , <i>M. Hofmann, N. Shchotkina, S. South, N. Willett</i> , University of Oregon
10:40am	
11:00am	<b>BI-MoM-10</b> Metrology of 3D Cell Culture Systems , <b>Sally McArthur</b> , Deakin University, Australia
11:20am	
11:40am	

**Biomaterial Surfaces & Interfaces**  
**Session BI-MoM**  
**Biomaterials/Interfaces - 3D Systems**  
**Moderator:**  
**Jenny Malmstrom**, University of Auckland, Australia

# Monday Evening, December 9, 2024

Room Naupaka Salon 4	
5:40pm	<b>INVITED: TF1-MoE-1</b> 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	<b>TF1-MoE-3</b> 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	<b>TF1-MoE-4</b> 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	<b>TF1-MoE-5</b> 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	<b>BREAK</b>
7:40pm	<b>INVITED: TF2-MoE-7</b> 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	<b>TF2-MoE-9</b> NAP HAXPES from Tender X-Ray Energies, <i>Paul Dietrich</i> , SPECS Surface Nano Analysis GmbH, Germany
8:40pm	<b>TF2-MoE-10</b> 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	<b>INVITED: BI1-MoE-1</b> Advanced BioAFM for Temporal Analysis, <i>Amy Gelmi</i> , RMIT University, Australia
6:00pm	
6:20pm	<b>BI1-MoE-3</b> 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. Katasarelias</i> , <i>J. Paoli</i> , <i>R. Olofsson Bagge</i> , <i>N. Neittaanmäki</i> , University of Gothenburg, Sweden
6:40pm	<b>BI1-MoE-4</b> 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	<b>BI1-MoE-5</b> 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	<b>BREAK</b>
7:40pm	<b>BI2-MoE-7</b> Development of an Active Sustainable Polymer Based on Crosslinked Gelatin, <i>Monique Lacroix</i> , INRS Armand Frappier Health Biotechnology, Canada
8:00pm	<b>BI2-MoE-8</b> 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
8:20pm	<b>BI2-MoE-9</b> Dynamic Supramolecular Gels for 3D Cell Culture, <i>A. Chalard</i> , <i>H. Porritt</i> , University of Auckland, New Zealand; <i>A. Taberner</i> , The University of Auckland, New Zealand; <i>J. Fitremann</i> , CNRS, France; <i>Jenny Malmstrom</i> , University of Auckland, New Zealand
8:40pm	

**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		<b>Renewable Energy and Energy Storage Session RE1-TuM Electrochemistry and Photocatalysis II Moderator: Craig Perkins, National Renewable Energy Laboratory</b>
8:20am		
8:40am		
9:00am	<b>INVITED: RE1-TuM-4</b> Tuning Optoelectronic Properties of 2D Transition Metal Dichalcogenides and p-Conjugated Polymers, <i>Elisa Miller</i> , National Renewable Energy Laboratory	
9:20am		
9:40am	<b>RE1-TuM-6</b> 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	<b>BREAK</b>	
10:20am	<b>INVITED: RE2-TuM-8</b> Physical Properties Control of Metal-Hydride Thin Films and Application of Autonomous Synthesis Systems, <i>Ryota Shimizu</i> , The University of Tokyo, Japan	<b>Renewable Energy and Energy Storage Session RE2-TuM Materials for Energy Conversion Moderator: Ryan Richards, Colorado School of Mines</b>
10:40am		
11:00am	<b>RE2-TuM-10</b> 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	<b>INVITED: RE2-TuM-11</b> 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><b>Biomaterial Surfaces &amp; Interfaces</b>  <b>Session B11-TuM</b>  <b>Biomaterials/Interfaces - Biointeractions</b>  <b>Moderator:</b>  <b>Kaori Sugihara</b>, Institute of Industrial Science, the University of Tokyo, Japan</p>	
8:20am		
8:40am		
9:00am		<p><b>B11-TuM-4</b> Supercritical Angle Raman Microscopy (SAR-M): A Versatile Tool to Study Molecular Conformations at Surfaces on the Example of Amyloid and <math>\alpha</math>-Synuclein Proteins, <i>N. Münch, S. Das, Stefan Seeger</i>, University of Zurich, Switzerland</p>
9:20am		<p><b>INVITED: B11-TuM-5</b> Biomimetic Leaf Surfaces as a Platform Technology to Study Bio-Interactions, <i>Volker Nock</i>, 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	<b>BREAK</b>	
10:20am	<p><b>Biomaterial Surfaces &amp; Interfaces</b>  <b>Session B12-TuM</b>  <b>Biomaterials/Interfaces - Biosensing</b>  <b>Moderator:</b>  <b>Volker Nock</b>, University of Canterbury, New Zealand</p>	
10:40am		<p><b>INVITED: B12-TuM-8</b> Mechanochromic Polymer, Polydiacetylene, for Force-, Bio-Sensing Applications, <i>Kaori Sugihara</i>, Institute of Industrial Science, the University of Tokyo, Japan</p>
11:00am		<p><b>INVITED: B12-TuM-10</b> Inspired by Nature: Next-Gen Multiplex Biosensing with Biomimetic Surfaces, <i>Saimon Moraes Silva</i>, 1/6 Patterson Street, Bonbeach, Australia</p>
11:20am		
11:40am	<p><b>B12-TuM-12</b> Polyaniline-Gold Nanocomposite as an Electrode Material for Supercapacitor and Escherichia Coli Detection, <i>Md Zaved Hossain Khan</i>, Jashore University of Science and Technology, Bangladesh</p>	



## Biomaterial Surfaces & Interfaces

### Room Naupaka Salon 1-3 - Session BI-MoP

#### Biomaterial Surfaces & Interfaces Poster Session

4:00 – 5:40 pm

**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

---

## Renewable Energy and Energy Storage

### Room Naupaka Salon 1-3 - Session RE-TuP

#### Renewable Energy and Energy Storage Poster Session

4:00 – 5:40 pm

**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 VO<sub>2</sub> Protection Layer and Defect Inactivation in BiVO<sub>4</sub> 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

4:00 – 5:40 pm

**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<sub>x</sub> 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 SiO<sub>2</sub> 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

# Tuesday Evening, December 10, 2024

Room Naupaka Salon 4		
5:40pm		<b>Nano and 2D Materials</b> <b>Session NM1-TuE</b> <b>Synthesis and Manipulation</b> <b>Moderator:</b> Sarah Burke, University of British Columbia, Canada
6:00pm		
6:20pm	<b>NM1-TuE-3</b> On-Surface Formation of One-Atom Thick Carbon-Based Low-Dimensional (1D/2D) Nanomaterials: A Surface and Nanoscale Science Approach, <i>Maryam Ebrahimi</i> , Lakehead University, Canada	
6:40pm	<b>NM1-TuE-4</b> Synthesis of Uniform Borophene: In Situ Spectroscopic Analysis and Ex Situ Macroscopic Transfer, <i>Marko Kralj, S. Kamal, B. Radatovic, V. Jadrisko, D. Novko, N. Vujicic, M. Petrovic</i> , Center for Advanced Laser Techniques, Institute of Physics, Croatia	
7:00pm	<b>NM1-TuE-5</b> Fabrication of Advanced Nano and 2D Material Devices - Utilizing the Next Generation NanoFrazor Capabilities, <i>Nicholas Hendricks, E. Çağın</i> , Heidelberg Instruments Nano AG, Switzerland	
7:20pm	<b>BREAK</b>	
7:40pm	<b>INVITED: NM2-TuE-7</b> First-Principles Study of Adsorption and Reaction on the Hydrogen Boride Sheet, <i>Iktaro Hamada</i> , Osaka University, Japan	<b>Nano and 2D Materials</b> <b>Session NM2-TuE</b> <b>2D Materials Based on Carbon and Boron</b> <b>Moderator: Akitoshi Shiotari</b> , Fritz-Haber Institute, Germany
8:00pm		
8:20pm	<b>NM2-TuE-9</b> N-doped Graphene Synthesis through Nitrogen Ion Irradiation, <i>Zbynek Novotny, B. Alupothe Gedara, P. Evans, Z. Dohnalek</i> , Pacific Northwest National Laboratory	
8:40pm	<b>NM2-TuE-10</b> Nanoscale Investigation of N-Heterocyclic Carbene Monolayers on Metal Surfaces, <i>Francesco Tumino</i> , Queen's University, Canada, Italy; <i>E. DesRoche, M. Aloisio, D. Nanan, A. McLean, C. Crudden</i> , Queen's University, Canada	

# Tuesday Evening, December 10, 2024

Room Naupaka Salon 5	
5:40pm	<b>INVITED: TF1-TuE-1</b> 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	<b>TF1-TuE-3</b> 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	<b>INVITED: TF1-TuE-4</b> 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	<b>BREAK</b>
7:40pm	<b>TF2-TuE-7</b> 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	<b>TF2-TuE-8</b> 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	<b>TF2-TuE-9</b> 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	<b>TF2-TuE-10</b> 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		<b>Nano and 2D Materials</b> <b>Session NM1-WeM</b> <b>Surface Engineering and Characterization</b> <b>Moderator:</b> <b>Maryam Ebrahimi, Lakehead University, Canada</b>
8:20am	<b>INVITED: NM1-WeM-2</b> Synthesis, Doping, and Encapsulation of 2D Transition Metal Dichalcogenides, <b>Yu-Chuan Lin</b> , National Yang Ming Chiao Tung University (NYCU), Taiwan	
8:40am		
9:00am	<b>INVITED: NM1-WeM-4</b> Small Clusters of Molecular Anions: Locally Probing a Model Hubbard System, <b>Sarah Burke</b> , University of British Columbia, Canada	
9:20am		
9:40am	<b>NM1-WeM-6</b> Tunable Areal Density and Defined Morphology Regimes of Langmuir Monolayers of PEGylated Gold Nanoparticles, <b>H. Cameron, I. Curtis, R. Takai</b> , Mount Allison University, Canada; <b>M. Radford</b> , Simon Fraser University, Canada; <b>A. Williams</b> , Mount Allison University, Canada; <b>B. Gates</b> , Simon Fraser University, Canada; <b>M.-Vicki Meli</b> , Mount Allison University, Canada	
10:00am	<b>BREAK</b>	
10:20am	<b>INVITED: NM2-WeM-8</b> Atomic-Scale Control of Plasmon-Driven Single-Molecular Switch, <b>Akitoshi Shiotari</b> , Fritz-Haber Institute, Germany	<b>Nano and 2D Materials</b> <b>Session NM2-WeM</b> <b>Properties of 2D Materials</b> <b>Moderator:</b> <b>Zbynek Novotny, Pacific Northwest National Laboratory</b>
10:40am		
11:00am	<b>NM2-WeM-10</b> Tunable Metasurface with Gap and Collective Surface Plasmon Modes, <b>Anatoliy Pinchuk</b> , University of Colorado at Colorado Springs	
11:20am	<b>NM2-WeM-11</b> Probing Inherent Optical Anisotropy in Transition Metal Dichalcogenide Substrates via Mie Scattering-Induced Surface Analysis (MISA), <b>H. Woo</b> , Korea Research Institute of Standards and Science, Republic of Korea; <b>J. Han, S. Ji, B. Shin</b> , Sungkyunkwan University (SKKU), Republic of Korea; <b>S. Lee</b> , Nanyang Technological University, Singapore; <b>Young Jae Song</b> , Sungkyunkwan University (SKKU), Republic of Korea	
11:40am	<b>NM2-WeM-12</b> Enhancement of Photocatalytic Water Splitting Upon Induced Structural Evolution and Increase of Phase Polarity of Two-Dimensional Covalent Organic Frameworks, <b>Jrjeng Ruan</b> , National Cheng Kung University (NCKU), Taiwan	

## Nano and 2D Materials

### Room Naupaka Salon 1-3 - Session NM-WeP

#### Nano and 2D Materials Poster Session

4:00 – 5:40 pm

**NM-WeP-1** Introduction to Measurement Uncertainty Evaluation Method and Results of Silicon Nitride Thin Film Layer Thickness and Complex Dielectric Constant, **Yong 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  $\text{MoO}_2\text{Cl}_2$  Precursor on  $\text{SiO}_2$  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

---

## 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-2** Localized Physical and Chemical Manipulation of Surfaces via Thermal Scanning Probe Lithography (t-SPL), **Nicholas Hendricks**, *E. Çağın*, Heidelberg Instruments Nano AG, Switzerland

**TF-WeP-3** Synaptic Characteristics of Memristive Au/LiNbO<sub>3</sub>/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 Au/Hf<sub>x</sub>Zr<sub>1-x</sub>O<sub>2</sub>/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<sub>2</sub> Formation Pathways in CO-H<sub>2</sub>O Ice Films under Ultraviolet Irradiation, **Koichiro Yamakawa**, *A. Hirayama*, *I. Arakawa*, Japan Atomic Energy Agency, Japan

# Wednesday Evening, December 11, 2024

Room Naupaka Salon 4	
5:40pm	<b>INVITED: TF1-WeE-1</b> Superlubricity: Toward Design of Zero-Friction and Zero-Wear Materials, <i>Diana Berman</i> , University of North Texas
6:00pm	
6:20pm	<b>TF1-WeE-3</b> 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; <b>Matthew Paige</b> , University of Saskatchewan, Canada
6:40pm	<b>TF1-WeE-4</b> Highly Transparent, Colorless Optical Film with Outstanding Mechanical Strength and Folding Reliability Using Mismatched Charge-Transfer Complex Intensification, <i>Sung Woo Hong</i> , Korea Institute of Industrial Technology (KITECH), Republic of Korea
7:00pm	<b>TF1-WeE-5</b> Precise Synthesis of Covalent Organic Framework Thin Films, <b>Dong Wang</b> , Institute of Chemistry, Chinese Academy of Sciences, China
7:20pm	<b>BREAK</b>
7:40pm	<b>INVITED: TF2-WeE-7</b> On the Growth of Cubic Boron Nitride Thin Films Using High-Power Impulse Magnetron Sputtering, <i>Tetsuhide Shimizu, 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	<b>TF2-WeE-9</b> Physical Properties of Pure Vanadium Nitrides Thin Films, <b>Marjorie Cavarroc, J. Neyrat</b> , Safran, France; <i>D. Marquez, D. Michau, A. Poulon-Quintin</i> , ICMCB, France
8:40pm	<b>TF2-WeE-10</b> Sputter Depth Profile Study of Zrn as a Barrier to Silver Migration in Triso Fuels Using the XPS Neo Artificial Intelligence Fitting Package, <b>Jeff Terry</b> , 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	
8:20am	
8:40am	<b>TF1-ThM-3</b> Eco-Friendly Dry-Cleaning of Silicon Dioxide Deposition Chambers using a Cylinder-Type Remote Plasma Source with NF <sub>3</sub> /N <sub>2</sub> Mixtures, <i>Won Kyun Yeom, H. Gil</i> , Sungkyunkwan University, Republic of Korea; <i>G. Yeom</i> , Sungkyunkwan University (SKKU), Republic of Korea
9:00am	<b>INVITED: TF1-ThM-4</b> Innovative Fluorite-Based High-Entropy Oxide: A Novel Electrocatalyst for All-Vanadium Redox Flow Batteries, <i>Chen-Hao Wang</i> , National Taiwan University of Science and Technology, Taiwan
9:20am	
9:40am	<b>TF1-ThM-5</b> Reactive Ion Etching of InGaZnO using HFC-based Gas and Chamber Cleaning, <i>Sang Jin Lee, J. Hong</i> , Sungkyunkwan University, Republic of Korea; <i>Y. Jeong, H. Cho, D. Jung, Y. Yeo</i> , Samsung Display, Republic of Korea; <i>D. Kim, G. Yeom</i> , Sungkyunkwan University, Republic of Korea
10:00am	<b>BREAK</b>
10:20am	<b>TF2-ThM-8</b> Design at Nanoscale of Thermostable Hybrid Sol-Gel Bondlayer to Functionalize Aeronautical CFRP by Thermal Spray, <i>Sophie Senani-de Monredon</i> , SAFRAN TECH, France; <i>L. Rozes</i> , Sorbonne Université, France; <i>G. Penvern</i> , SAFRAN TECH, Sorbonne Univ., France; <i>A. Joulia</i> , SAFRAN TECH, France; <i>S. Bonebeau</i> , SAFIR, France
10:40am	<b>TF2-ThM-9</b> Sustainable Artificial Leather Production - Use of Alternative Textile Structures and Modification of Surfaces, <i>Roxana Ley</i> , Institut fuer Textiltechnik der RWTH Aachen, Germany
11:00am	<b>INVITED: TF2-ThM-10</b> Invited Paper, <i>Sangmin An</i> , Jeonbuk National University, Republic of Korea
11:20am	

**Thin Films and Surface Modification  
Session TF1-ThM  
Thin Films - Plasma and Etching-related  
Moderator:  
Sophie Senani-de Monredon, SAFRAN TECH, France**

**Thin Films and Surface Modification  
Session TF2-ThM  
Thin Films - Surface Modifications  
Moderator:  
Hyo-Chang Lee, Korea Aerospace University, Republic of Korea**

# Thursday Morning, December 12, 2024

Room Naupaka Salon 5		
8:00am		<b>Nano and 2D Materials</b> <b>Session NM1-ThM</b> <b>Nanomaterials - Properties and Applications I</b> <b>Moderator:</b> <b>Santosh KC, San Diego State University</b>
8:20am		
8:40am	<b>INVITED: NM1-ThM-3</b> Different Directions In Layered Materials, <i>Joshua Goldberger</i> , The Ohio State University	
9:00am		
9:20am	<b>NM1-ThM-5</b> Evaluation of Vapor Pressure of MoO <sub>2</sub> Cl <sub>2</sub> and Its Initial Chemical Reaction on a SiO <sub>2</sub> 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	<b>NM1-ThM-6</b> 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	<b>BREAK</b>	
10:20am	<b>NM2-ThM-8</b> 2D Metal Carbides (MXenes) for Catalysis, <i>Yue Wu</i> , Iowa State University	<b>Nano and 2D Materials</b> <b>Session NM2-ThM</b> <b>Nanomaterials - Properties and Applications II</b> <b>Moderator:</b> <b>Yu-Chuan Lin, National Yang Ming Chiao Tung University (NYCU), Taiwan</b>
10:40am	<b>NM2-ThM-9</b> 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	<b>NM2-ThM-10</b> Electronic, and Optical Properties of 2D Metal Chalcogenophosphates, <i>H. Chiu, Santosh KC</i> , San Diego State University	
11:20am		



**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**  
 Almaguer-Flores, A.: TF1-TuE-4, **11**  
 Aloisio, M.: NM2-TuE-10, **10**  
 Alupothe Gedara, B.: NM2-TuE-9, **10**  
 Amin, T.: RE-TuP-1, **9**  
 Amini, S.: BI2-MoE-8, **6**  
 An, S.: TF2-ThM-10, **15**  
 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-8, **6**  
 Blenkinsopp, P.: NM-WeP-2, **13**  
 Bobaru, F.: TF2-TuE-8, **11**  
 Bonebeau, S.: TF2-ThM-8, **15**  
 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 —  
 Çağın, E.: NM1-TuE-5, **10**; TF-WeP-2, **13**  
 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.: BI2-MoE-9, **6**  
 Chegal, W.: NM-WeP-1, **13**  
 Chiu, H.: NM2-ThM-10, **16**  
 Cho, H.: RE-TuP-2, **9**; TF1-ThM-6, **15**  
 Cho, Y.: NM-WeP-1, **13**  
 Choi, H.: BI2-MoE-8, **6**; BI-MoP-1, **9**  
 Choi, K.: BI-MoP-1, **9**  
 Ciobanu, C.: 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 —  
 Ebrahimi, M.: NM1-TuE-3, **10**  
 Eom, Y.: BI-MoP-1, **9**  
 Evans, P.: NM2-TuE-9, **10**  
 — F —  
 Fernandez, I.: TF2-WeE-7, **14**  
 Fitremann, J.: BI2-MoE-9, **6**  
 Fletcher, J.: BI1-MoE-3, **6**  
 — G —  
 Gamble, L.: NM-WeP-5, **13**  
 Garrill, A.: BI1-TuM-5, **8**  
 Gates, B.: NM1-WeM-6, **12**  
 Gazzola, S.: TF2-MoE-10, **5**

Gelmi, A.: BI1-MoE-1, **6**  
 Gil, H.: TF1-ThM-7, **15**  
 Glavin, N.: TF1-TuE-1, **11**  
 Goldberger, J.: NM1-ThM-3, **16**  
 Gorman, B.: BI1-MoE-4, **6**  
 — H —  
 Hamada, I.: NM2-TuE-7, **10**  
 Han, J.: NM2-WeM-11, **12**  
 Harms, C.: RE1-TuM-6, **7**  
 Hayes, D.: RE1-TuM-6, **7**  
 Helmersson, U.: TF2-WeE-7, **14**  
 Hendricks, N.: NM1-TuE-5, **10**; TF-WeP-2, **13**  
 Hofmann, M.: BI-MoM-8, **4**  
 Hong, J.: TF1-ThM-6, **15**  
 Hong, S.: TF1-WeE-4, **14**  
 Hu, J.: RE2-TuM-10, **7**  
 Humiston, A.: TF-WeP-4, **13**  
 Hurd, M.: TF1-MoE-4, **5**  
 — J —  
 Jadrisko, V.: NM1-TuE-4, **10**  
 Jain, M.: TF2-TuE-7, **11**  
 Jang, H.: TF-TuP-6, **9**  
 Jeong, Y.: TF1-ThM-6, **15**  
 Ji, S.: NM2-WeM-11, **12**  
 Jin, J.: TF-TuP-3, **9**  
 Joulia, A.: TF2-ThM-8, **15**  
 Jun, S.: NM-WeP-3, **13**  
 Jung, D.: TF1-ThM-6, **15**  
 Jung, S.: TF1-TuE-3, **11**  
 — K —  
 Kabir, R.: RE-TuP-1, **9**  
 Kamal, S.: NM1-TuE-4, **10**  
 Katsarelias, D.: BI1-MoE-3, **6**  
 Kaur, H.: TF1-WeE-3, **14**  
 KC, S.: NM2-ThM-10, **16**  
 Khan, M.: BI2-TuM-12, **8**  
 Kim, D.: TF1-ThM-6, **15**; TF-WeP-3, **13**; TF-WeP-5, **13**  
 Kim, G.: BI-MoP-1, **9**  
 Kim, H.: NM1-ThM-5, **16**  
 Kim, J.: NM-WeP-4, **13**; NM-WeP-6, **13**; TF1-TuE-3, **11**; TF-TuP-6, **9**  
 Kim, S.: NM1-ThM-6, **16**; NM-WeP-6, **13**  
 Kim, W.: TF2-TuE-10, **11**; TF-TuP-5, **9**  
 Kim, Y.: NM1-ThM-5, **16**; NM-WeP-4, **13**; NM-WeP-6, **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-7, **6**  
 Lager, L.: TF1-MoE-3, **5**  
 Lallo, J.: NM2-ThM-9, **16**  
 Lau, E.: BI1-MoE-5, **6**  
 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-6, **15**; TF2-TuE-10, **11**; TF-WeP-3, **13**; TF-WeP-5, **13**  
 Lee, Y.: TF-WeP-3, **13**; TF-WeP-5, **13**  
 Leiws, A.: TF1-MoE-5, **5**  
 Leslie, K.: NM-WeP-5, **13**  
 Ley, R.: TF2-ThM-9, **15**  
 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**  
 Lundin, D.: TF2-WeE-7, **14**  
 — M —  
 Mack, P.: NM2-ThM-9, **16**  
 Maillard, M.: TF2-TuE-9, **11**  
 Malmstrom, J.: BI2-MoE-9, **6**  
 Mangum, J.: RE-TuP-1, **9**  
 Maniscalco, M.: BI2-MoE-8, **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**  
 McArthur, S.: BI-MoM-10, **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**  
 Neittaanmäki, 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, 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, H.: TF-WeP-1, **13**  
 Park, J.: RE1-MoM-3, **3**  
 Park, S.: BI-MoP-1, **9**  
 Penvern, G.: TF2-ThM-8, **15**  
 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.: BI2-MoE-9, **6**  
 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**  
 Remus-Emsermann, M.: BI1-TuM-5, **8**  
 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.: TF2-ThM-8, **15**  
 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**

## Author Index

Scott, B.: NM-WeP-5, **13**  
Seeger, S.: BI1-TuM-4, **8**  
Senani-de Monredon, S.: TF2-ThM-8, **15**  
Senani-De Monredon, S.: TF1-MoE-3, **5**  
Sepulveda-Robles, O.: TF1-TuE-4, **11**  
Shahbazmohamadi, S.: BI2-MoE-8, **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**  
Shiotari, A.: NM2-WeM-8, **12**  
Sim, J.: TF-WeP-1, **13**  
Simpson, R.: NM2-ThM-9, **16**  
Sjögren Cehajic, K.: BI1-MoE-3, **6**  
Sobczak, C.: TF2-TuE-7, **11**  
Song, N.: RE2-MoM-8, **3**  
Song, Y.: NM2-WeM-11, **12**  
South, S.: BI-MoM-8, **4**  
Souvignet, T.: TF2-TuE-9, **11**  
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.: BI2-MoE-9, **6**  
Tae, H.: TF-TuP-6, **9**  
Taffa, D.: RE1-TuM-6, **7**  
Takai, R.: NM1-WeM-6, **12**  
Tavousi, P.: BI2-MoE-8, **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**  
Tumino, F.: NM2-TuE-10, **10**  
— **U** —  
Uchida, T.: TF-TuP-1, **9**  
Ustimenko, A.: TF-TuP-2, **9**

— **V** —  
Vujicic, N.: NM1-TuE-4, **10**  
— **W** —  
Wang, C.: TF1-ThM-4, **15**  
Wang, D.: TF1-WeE-5, **14**  
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**  
Yasuda, Y.: TF-TuP-1, **9**  
Yeo, Y.: TF1-ThM-6, **15**  
Yeom, G.: TF1-ThM-6, **15**; TF1-ThM-7, **15**  
Yeom, W.: TF1-ThM-3, **15**  
Yu, S.: NM-WeP-3, **13**  
— **Z** —  
Zaar, O.: BI1-MoE-3, **6**  
Zhang, Y.: NM-WeP-5, **13**