

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		
10:00am	BREAK	
10:20am		Renewable Energy and Energy Storage Session RE2-MoM Surfaces and Interfaces in Photovoltaics Moderator: Elisa Miller, National Renewable Energy Laboratory
10:40am		
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	<p>Biomaterial Surfaces & Interfaces Session BI-MoM Biomaterials/Interfaces - 3D Systems Moderator: Jenny Malmstrom, University of Auckland, Australia</p>	
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		Thin Films and Surface Modification Session TF1-MoE Thin Films - Materials I Moderator: Ryo Toyoshima , The University of Tokyo, Japan
6:00pm		
6:20pm	INVITED: TF1-MoE-3 Plasma Diagnostic-Based Plasma Processing for Semiconductor and Nanomaterial Manufacturing, Hyo-Chang Lee , Korea Aerospace University, Republic of Korea	
7:00pm	TF1-MoE-5 Tailoring High Temperature Anti-Oxidizing Coatings by Sol-Gel Chemistry for Enhanced Aeronautic Efficiency, L. Lager , University Lyon 1, France; S. Senani-De Monredon , J. Delfosse , Safran Tech, France; S. Benayoun , Ecole Centrale de Lyon, France; Berangere Tourny , University Lyon 1, France	
7:20pm	BREAK	
7:40pm	INVITED: TF2-MoE-7 In-Situ/Operando Soft X-Ray Measurements for Hydrogen Related Surface Functional Materials, 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
8:00pm		
8:20pm	TF2-MoE-9 NAP HAXPES from Tender X-Ray Energies, Paul Dietrich , SPECS Surface Nano Analysis GmbH, Germany	
8:40pm		

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>S. Amini</i> , Pulse Technologies Inc.; <i>S. Shahbazmohamadi</i> , <i>H. Choi</i> , <i>Alexander 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-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

RE-TuP-3 Lanthanum-Doped Palladium Supported Catalyst for Selective Furfural Hydrogenation at Low Temperature, **Ye Eun Kim**, C. Jeong, D. Cheon, M. Lee, Korea Institute of Industrial Technology, Republic of Korea

RE-TuP-4 The Effect of Melamine Content on 1-Phenyl-1-Propanol Hydrogenolysis over Nitrogen Doped Pd/C, **Dong Hwan Cheon**, Korea Institute of Industrial Technology, Pusan National University, Republic of Korea; Y. Kim, C. Jeong, M. Lee, Korea Institute of Industrial Technology, Republic of Korea

RE-TuP-5 Improving the Performance of Co-CeO₂ Catalyst for Water Gas Shift Reaction to Hydrogen Production from Combustible Waste Through Addition of Transition Metal Oxides, **Chang-Hoon Jeong**, Y. Kim, D. Cheon, M. Lee, Korea Institute of Industrial Technology, 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, Ikutaro 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		

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</i> , <i>B. Robertson</i> , <i>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</i> , <i>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</i> , <i>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</i> , <i>T. Shilt</i> , <i>R. Kothari</i> , <i>K. Dorman</i> , <i>C. Martinez</i> , <i>C. Sobczak</i> , <i>S. Addamane</i> , <i>M. Jain</i> , <i>F. DelRio</i> , <i>M. Rodriguez</i> , <i>B. Boyce</i> , <i>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</i> , <i>J. Carlotti</i> , <i>V. Salles</i> , <i>M. Maillard</i> , <i>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</i> , <i>J. Lee</i> , <i>J. Oh</i> , <i>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, Yu-Chuan Lin , 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, Sarah Burke , 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, H. Cameron, I. Curtis, R. Takai , Mount Allison University, Canada; M. Radford , Simon Fraser University, Canada; A. Williams , Mount Allison University, Canada; B. Gates , Simon Fraser University, Canada; M.-Vicki Meli , Mount Allison University, Canada	
10:00am	BREAK	
10:20am	INVITED: NM2-WeM-8 Atomic-Scale Control of Plasmon-Driven Single-Molecular Switch, Akitoshi Shiotari , 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, Anatoliy Pinchuk , 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), H. Woo , Korea Research Institute of Standards and Science, Republic of Korea; J. Han, S. Ji, B. Shin , Sungkyunkwan University (SKKU), Republic of Korea; S. Lee , Nanyang Technological University, Singapore; Young Jae Song , 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, Jrjeng Ruan , 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-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, **Yongmin Go, B. Park**, Korea Research Institute of Chemical Technology (KRICT), Republic of Korea; *T. Park*, Hanyang University, 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	
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, <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	TF2-WeE-9 Physical Properties of Pure Vanadium Nitrides Thin Films, <i>Marjorie Cavarroc, 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, <i>Jeff Terry</i> , 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 ₂ Cl 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>J. Lallo, Lu 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	

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