

SYMPOSIUM SESSIONS

TITLE	LOCATION: SEATTLE CONVENTION CENTER-SUMMIT	T M - Tutorial Morning Only T A - Tutorial Afternoon Only T D - Tutorial All Day			M - Morning Only A - Afternoon Only D - All Day		
		M	T	W	TH	F	
BROADER IMPACT							
BI01	Materials Research by the LGBTQIA+ Community and a Vision for Inclusivity	Room 326, Level 3, Summit		M	D		
BI02	Broadening Participation in Materials Research and STEM	Room 326, Level 3, Summit				D	
CHARACTERIZATION							
CH01	Characterizing Dynamic Processes of Materials Synthesis and Processing via <i>In Situ</i> Techniques	Room 442, Level 4, Summit			D	D	D
CH02	Utilizing Advanced <i>In Situ/Operando</i> Transmission Electron Microscopy and Spectroscopy for the Investigation of Functional, Energy and Quantum Materials	Room 440, Level 4, Summit			D	D	D
CH03	<i>In Situ</i> Characterization Methods for Nuclear Materials Applications	Room 441, Level 4, Summit			D	D	D
CH04	Characterization of Materials Dynamics	Room 443, Level 4, Summit			D	D	D
ELECTRONICS, OPTICS AND PHOTONICS							
EL01	Surfaces and Interfaces in Electronics and Photonics	Room 348, Level 3, Summit			D	D	
EL02	Towards Atomically Precise Colloidal Materials for Conventional and Quantum Optoelectronics	Room 347, Level 3, Summit			D	D	D
EL03	Next-Generation Interconnects (Materials, Processes and Integration)—Toward Sustainable Microelectronics	Room 346, Level 3, Summit			D	D	M
EL04	Wide and Ultra-Wide Bandgap Materials, Devices and Applications	Room 345, Level 3, Summit	A		D	D	D
EL05	Two-Dimensional (2D) Materials and Heterostructures—Large-Scale Growth and Device Integration	Room 344, Level 3, Summit			D	D	D
EL06	Complex Oxide Epitaxial Thin Films—From Synthesis to Microelectronics	Room 343, Level 3, Summit			D	D	D
EL07	Emerging Ferroic Materials—Synthesis, Properties and Applications	Room 342, Level 3, Summit			D	D	D
EL08	Plasmonics and Metasurfaces—Design, Materials and Applications	Room 340/341, Level 3, Summit	D		D	D	D
ENERGY GENERATION AND CONVERSION							
EN01	Application Targets for Next-Generation Photovoltaics Joint Session: EN04/EN01	Room 331, Level 3, Summit Room 328, Level 3, Summit			D		D
EN02	Cutting-Edge Materials Design Toward Advanced Energy Harvesting—From Modeling to Manufacturing	Room 332, Level 3, Summit			D	D	D
EN03	Sustainability of Emerging Photovoltaics Joint Sessions: EN06/EN03	Room 333, Level 3, Summit			D	D	D
EN04	Beyond 20% Efficiencies with Organic Solar Cell Devices Joint Session: EN04/EN01	Room 328, Level 3, Summit Room 328, Level 3, Summit			D		D
EN05	Advances in Material, Catalyst and Device Design for Scalable Solar Fuel Production Joint Session: EN05/EN11	Room 335, Level 3, Summit Room 335, Level 3, Summit		D	D	M	
EN06	Tutorial EN06—How to Make Electronic Materials More Sustainable/Last Longer Make Energy Materials Sustainable Again Joint Sessions: EN06/EN03	Room 348, Level 3, Summit Room 333, Level 3, Summit	T	D			
EN07	Tutorial EN07—Machine Learning Toward Advanced Thermal Materials Thermal Transport and Energy Conversion	Room 344, Level 3, Summit Room 344, Level 3, Summit Room 327, Level 3, Summit	T	A			
EN08	Advancements in Thermoelectric Materials, Module Technology and Applications	Room 336, Level 3, Summit			D	D	D
EN09	Nanostructured Electrocatalysts for Energy Applications	Room 337, Level 3, Summit			D	D	D
EN10	Tutorial EN10—Metal Halide Perovskite Research of the Next Decade Novel Approaches to Synthesize and Characterize Stable Halide Perovskites and Their Devices	Room 347, Level 3, Summit Room 347, Level 3, Summit Room 334, Level 3, Summit	T	M			
EN11	Emerging Inorganic Semiconductors for Solar Energy and Fuels Joint Session: EN05/EN11	Room 335, Level 3, Summit Room 335, Level 3, Summit				A	D
ENERGY STORAGE							
ES01	Next-Generation EV Battery Materials—Bridging Academic, Government and Industry Research Joint Session: MT02/ES01	Room 425, Level 4, Summit Room 321, Level 3, Summit			D	D	D
ES02	<i>Operando</i> Characterization of Energy Storage Materials	Room 424, Level 4, Summit				D	D
ES03	Solid-State Batteries	Room 423, Level 4, Summit			D	D	D
ES04	Metal Anodes in Rechargeable Batteries—Electrolyte, Interface and Mechanism	Room 422, Level 4, Summit			D	D	D
ES05	Materials Challenges for Flow-based Energy Conversion and Storage	Room 431, Level 4, Summit				D	M
ES06	Sulfur and Sulfide Chemistry in High Performance Electrochemical Energy Storage	Room 432, Level 4, Summit			D	D	M
MANUFACTURING							
MF01	Advances in Polymer-based Soft Matter for Additive Manufacturing	Room 325, Level 3, Summit	A		D	D	D
MF02	Laser-Induced Nanomaterials—Synthesis, Properties and Applications	Room 324, Level 3, Summit			D	D	D
MF03	Sustainable Polymers—From Fundamentals to Advanced Manufacturing and Applications	Room 323, Level 3, Summit			D	D	D
MATERIALS THEORY, COMPUTATION AND DATA SCIENCE							
MT00	Tutorial MT00—Machine Learning in Materials Science—From Basic Concepts to Active Learning	Room 321, Level 3, Summit	T	D			
MT01	Integrating Machine Learning and Simulations for Materials Modeling	Room 320, Level 3, Summit	D		D	D	D
MT02	Battery Manufacturing—Emerging Opportunities in Data-Driven Experimentation, Analysis and Modeling Joint Session: MT02/ES01	Room 321, Level 3, Summit Room 321, Level 3, Summit			D	D	D
MT03	Machine Learning Methods, Data and Automation for Sustainable Electronics	Room 322, Level 3, Summit			D	D	D
NANOMATERIALS							
NM01	Advances in 2D MXenes	Room 330, Level 3, Summit			D	D	D
NM02	Advances in Nanodiamonds	Room 338, Level 3, Summit			D	D	
NM03	Nanoscale Mass Transport Through 2D and 1D Nanomaterials	Room 329, Level 3, Summit				D	D
QUANTUM MATERIALS AND MATERIALS PHYSICS							
QT01	Tutorial QT01—Ultrafast Spectroscopy with Photons and Electrons Ultrafast Light-Matter Interactions in Quantum Materials	Room 420, Level 4, Summit Room 420, Level 4, Summit					TA
QT02	Low-Dimensional Magnetic Quantum Materials	Room 421, Level 4, Summit			D	D	D
QT03	Physics of 2D Halide and Chalcogenides Semiconductors	Room 444, Level 4, Summit			D	D	D
QT04	Superconducting Materials	Room 445, Level 4, Summit			D	D	D
QT05	Advances in Detection Methods for Emergent Phases in Quantum Materials	Room 446, Level 4, Summit			A	D	D
QT06	Quantum Phenomena in Oxide—Synthesis, Characterization and Automation	Room 447, Level 4, Summit			D	D	M
QT07	3D Topological Semimetals—From Fundamentals to Applications	Room 448, Level 4, Summit			D	D	D
SOFT MATERIALS AND BIOMATERIALS							
SB01	Bioresponsive Nanotheranostics	Room 428, Level 4, Summit			D	D	M
SB02	Charge Carrier Transport in Organic and Organic-Inorganic Hybrid Materials Joint Session: SB02/SB04	Room 437, Level 4, Summit Room 437, Level 4, Summit			D	D	D
SB03	Materials, Devices and Systems for Neuromorphic Electronics—From Artificial Synapses to Bionic and Wearable Systems	Room 436, Level 4, Summit			D	D	D
SB04	Innovative Device and Characterization Concepts for Organic Electronics Joint Session: SB02/SB04	Room 435, Level 4, Summit Room 437, Level 4, Summit			D	D	D
SB05	Materials and Systems for Fully Implantable Organ Interfaces Joint Session: SB05/SB08	Room 434, Level 4, Summit Room 434, Level 4, Summit	A		D	D	M
SB06	Biohybrid Materials and Devices for Sensing, Robotics, Energy and Biomedicine	Room 427, Level 4, Summit			D	D	D
SB07	Lipid Materials—Theory, Fundamentals and Applications	Room 439, Level 4, Summit			D	D	M
SB08	Advanced Biomaterials and Bioelectronics for Neural Interfacing Advanced Biomaterials and Bioelectronics for Neural Interfacing Joint Session: SB05/SB08	Room 434, Level 4, Summit Room 433, Level 4, Summit Room 434, Level 4, Summit	A		D	D	D
SB09	Bioelectricity and Recapitulation of 3D Environment in Microbial and Tissue Engineering	Room 438, Level 4, Summit			D		
SB10	Bioinspired Organic Materials and Devices for Sensing and Computing	Room 429, Level 4, Summit			D	D	D
SB11	Tutorial SB11—X-Ray Scattering Deciphering of the Structural Evolution of Soft Polymers in Dynamic System Bio-based and Biomimetic Polymers in Soft Robotics	Room 346, Level 3, Summit Room 430, Level 4, Summit	T	M			
STRUCTURAL AND FUNCTIONAL MATERIALS							
SF01	High Entropy Oxides and Related Materials	Terrace Suite 1, Level 4, Summit			D	D	D
SF02	Actinide Materials	Terrace Suite 2, Level 4, Summit			D	D	D
SF03	Ion Insertion—Fundamental Processes and Applications to Switching	Room 339, Level 3, Summit			D	D	M

M T W TH F

EXHIBITOR LISTINGS

Exhibit Hours
 Tuesday | 5:00 pm - 7:30 pm
 Wednesday | 11:00 am - 7:00 pm
 Thursday | 10:00 am - 1:00 pm

AARD Technology LLC	321	Electron Microscopy Sciences	302	Magnitude Instruments	104	QZabre Ltd	313
AFRL Regional Network - Midwest	132	epiray GmbH	226	Microsoft	218	R.D. Mathis Company	100
AIP Publishing	109	FOM Technologies A/S	219	MRS-Springer Nature Publications	120	Rigaku Americas Corporation	127
AJA International, Inc.	203	h-BAR INSTRUMENTS	307	MTI Corporation	315	Royal Society of Chemistry	228
Anric Technologies	220	Hummingbird Scientific	110	Nanoscribe GmbH	106	Science Partner Journals	210
attocube systems Inc	125	Instec, Inc.	319	National Academies of Sciences, Engineering, and Medicine	224	SCIPRIOS GmbH	103
Barnett Technical Services	124	International Centre for Diffraction Data (ICDD) and Materials Data	215	Nexttron Corporation	126	Shandong Madic Technology Co., Ltd	129
Bio-Logic USA	134	Ionoptika Ltd.	235	NKT Photonics	133	Sigray, Inc.	309
City University of New York	115	J.A. Woollam	300	Pacific Northwest National Laboratory	221	SmarAct Inc.	223
CrystalMaker Software Ltd.	107	JASCO	207	Physical Electronics	306	Spectro Inlets Aps	111
Diatope GmbH	229	Klar Scientific, Inc.	320	Physical Review Journals published by APS	209	Surface Electro Optics Co Ltd (S.E.O)	201
digivac	232	Korea Research Institute of Chemical Technology (KRICT)	233	PicoQuant Photonics North America	135	Ted Pella, Inc.	206
easyXAFS, LLC	314	KS Analytical Systems	213	Plasmaterials, Inc.	202	UC Components, Inc.	200
ECOPIA CORPORATION	234	Lake Shore Cryotronics, Inc.	332	Polysciences Inc.	214	Virtual Lab, Inc.	130
ECS—The Electrochemical Society	305	M. Braun Inc.	128	Proto Manufacturing	227	Vision Research	108
Edinburgh Instruments Ltd.	308			Quantum Design, Inc.	318	VisitSeattle Booth	317

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