

PCSI-46 2019 Program Overview

Room /Time	Ballroom South
SuA	PCSI-SuA: The Future of Computing
SuE	PCSI-SuE: III-V Growth
MoM	PCSI-1MoM: 2D Plasmonics PCSI-2MoM: Atomic Layer Deposition & Etching I PCSI-3MoM: Topological Materials PCSI-4MoM: Surface Characterization
MoA	PCSI-1MoA: Device Interface Characterization PCSI-2MoA: Spectroscopy of 2D Materials PCSI-3MoA: Magnetism in 2D Materials and Interfaces PCSI-4MoA: Oxide Growth and Properties
MoE	PCSI-MoE: 2D Materials Characterization and Devices
TuM	PCSI-1TuM: Quantum Emitters and Excitations PCSI-2TuM: Atomic Scale Characterization PCSI-3TuM: 2D Materials and Heterostructure Growth
TuE	PCSI-TuE: Quantum Materials?
WeM	PCSI-1WeM: Hybrid and Mixed-Dimensional Interfaces I PCSI-2WeM: Topological Materials II PCSI-3WeM: Exploiting Ions in Devices
WeA	PCSI-1WeA: Atomic Layer Deposition & Etching II PCSI-2WeA: Applications of 2D Defects and Interfaces
ThM	PCSI-ThM: Hybrid and Mixed-Dimensional Interfaces II

Sunday Afternoon, January 13, 2019

PCSI

Room Ballroom South - Session PCSI-SuA

The Future of Computing

Moderator: Christopher Palmstrøm, University of California, Santa Barbara

3:00pm	INVITED: PCSI-SuA1 Invited Speaker, <i>Stuart Parkin</i> , Max Planck Institute, Germany
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3:40pm	INVITED: PCSI-SuA9 Invited Speaker, <i>Walter Riess</i> , IBM Research - Zurich, Germany
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4:20pm	PCSI-SuA17 Panel Discussion I
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5:00pm	

Sunday Evening, January 13, 2019

<p>PCSI Room Ballroom South - Session PCSI-SuE III-V Growth Moderator: Lincoln J. Lauhon, Northwestern University</p>	
7:30pm	INVITED: PCSI-SuE1 Understanding the Kinetics of III-V Semiconductor Nanowire Growth using <i>in-situ</i> TEM, <i>C. Maliakkal, D. Jacobsson, M. Tornberg, A. Persson, J. Johansson, R. Wallenberg, Kimberly Thelander</i> , Lund University, Sweden
7:35pm	
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8:00pm	PCSI-SuE7 <i>In situ</i> Studies of Surface Morphological Evolution During Indium Nitride Growth by Atomic Layer Epitaxy, <i>Charles R. Eddy, Jr., N. Nepal</i> , U.S. Naval Research Laboratory; <i>S. Rosenberg</i> , American Association for Engineering Education; <i>V. Anderson</i> , Sotera Defense Solutions; <i>J. Woodward</i> , American Society for Engineering Education; <i>C. Wagenbach</i> , Boston University; <i>A.C. Kozen</i> , American Society for Engineering Education; <i>Z. Robinson</i> , College at Brockport SUNY; <i>L. Nyakiti</i> , Texas A&M University; <i>S. Qadri</i> , U.S. Naval Research Laboratory; <i>M. Mehl</i> , U.S. Naval Academy; <i>K. Ludwig</i> , Boston University; <i>J. Hite</i> , U.S. Naval Research Laboratory
8:05pm	PCSI-SuE8 Growth Strategies for Modifying Heterovalent Interfaces, <i>Kirstin Alberi, K. Park</i> , National Renewable Energy Laboratory
8:10pm	PCSI-SuE9 InAs QD Formation on GaAs(110) by Bi-surfactants, <i>W. Martyanov</i> , Technische Universität Berlin, Germany; <i>R. Lewis</i> , Paul-Drude-Institut für Festkörperelektronik, Germany; <i>H. Janssen, P. Farin, R. Zielinski, C. Schulze, A. Lenz</i> , Technische Universität Berlin, Germany; <i>L. Geelhaar</i> , Paul-Drude-Institut für Festkörperelektronik, Germany; <i>Holger Eisele</i> , Technische Universität Berlin, Germany
8:15pm	PCSI-SuE10 Atom Probe Tomography of Nonplanar III-As Heterostructures, <i>Lincoln J. Lauhon</i> , Northwestern University
8:20pm	INVITED: PCSI-SuE11 Superconducting Proximity Effect in Two-Dimensional Semiconductor-Superconductor Structures, <i>Javad Shabani</i> , New York University
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8:50pm	PCSI-SuE17 Late News 1,

Monday Morning, January 14, 2019

Room Ballroom South		
8:30am	INVITED: PCSI-1MoM1 Controlling Light at the Atomic Scale with 2D Polaritons, <i>Javier García de Abajo</i> , ICFO-Institut de Ciències Fotoniques, Av. Carl F. Gauss 3, 08860 Castelldefels (Barcelona), Spain	PCSI Session PCSI-1MoM 2D Plasmonics Moderator: Anders Mikkelsen, Lund University
8:35am		
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9:05am	PCSI-1MoM8 An Optical transformer-based Campanile Near-field Probe on an AFM Cantilever, <i>K. Le</i> , aBeam Technologies; <i>S. Bilent</i> , Lawrence Berkeley National Lab; <i>C. Pina-Hernandez</i> , aBeam Technologies; <i>S. Cabrini</i> , Lawrence Berkeley National Lab; <i>Keiko Munechika</i> , aBeam Technologies	
9:10am	PCSI-1MoM9 Localized Surface Curvature Artifacts in Gap-mode Tip-enhanced Nanospectroscopy, <i>Darya Stepanichsheva</i> , Tomsk Polytechnic University, Russia	
9:15am	INVITED: PCSI-2MoM10 Invited Speaker, <i>Angel Yanguas-Gil</i> , Argonne National Laboratory	PCSI Session PCSI-2MoM Atomic Layer Deposition & Etching I
9:20am		
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9:45am	PCSI-2MoM16 Mechanism of Hydrogen Plasma Modified ALD Growth of Metal-enriched Oxides Studied by <i>In-Situ</i> Mass Spectrometry, <i>Thomas Larrabee</i> , <i>S. Prokes</i> , Naval Research Laboratory	
9:50am	PCSI-2MoM17 <i>In Situ</i> Investigation of Doping of 2D Semiconductors During Atomic Layer Deposition of Dielectrics, <i>Michael Moody</i> , <i>J.Y. Shang</i> , <i>J. Chen</i> , <i>A. Henning</i> , <i>T. Lohr</i> , <i>T. Marks</i> , <i>L.J. Lauhon</i> , Northwestern University	
9:55am	PCSI-2MoM18 The Impact of the Annealing Temperature of the Seed Layer on the Growth and the Electrical Properties of the Main Layer in Atomic Layer Deposition of SrTiO ₃ Films, <i>Sang Hyeon Kim</i> , Seoul National University, Republic of Korea; <i>W. Lee</i> , Northwestern University; <i>C.H. An</i> , <i>D.S. Kwon</i> , <i>D.-G. Kim</i> , <i>S.H. Cha</i> , <i>S.T. Cho</i> , <i>C.H. Hwang</i> , Seoul National University, Republic of Korea	
10:00am	Coffee Break & Poster Viewing	
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11:00am	INVITED: PCSI-3MoM31 Topological Heterostructures by Molecular Beam Epitaxy, <i>Susanne Stemmer</i> , University of California, Santa Barbara	PCSI Session PCSI-3MoM Topological Materials Moderator: Javad Shabani, New York University
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Monday Morning, January 14, 2019

11:30am	PCSI-3MoM37 Structural Distortions and Surface/Bulk Competition in Quasi-2D SnSe-TiSe ₂ Nanolayered Heterostructures, Sage Bauers , National Renewable Energy Laboratory; <i>D. Hamann, D. Merrill, J. Ditto, M. Esters</i> , University of Oregon; <i>D. Roberts</i> , University of Colorado at Boulder; <i>A. Zakutayev</i> , National Renewable Energy Laboratory; <i>D. Johnson</i> , University of Oregon	
11:35am	PCSI-3MoM38 Gold-gold Dimer Buckling and Electronic Structure of Epitaxial LaAuSb Films., Patrick Strohbeen , <i>D. Du, C. Zhang, E.H. Shourov</i> , University of Wisconsin-Madison; <i>F. Rodolakis, J. McChesney</i> , Argonne National Laboratory; <i>P. Voyles, J. Kawasaki</i> , University of Wisconsin-Madison	
11:40am	PCSI-3MoM39 MBE Growth of Cd ₃ As ₂ on GaAs(001) Substrates, Anthony Rice , <i>K. Alberi</i> , National Renewable Energy Laboratory	
11:45am	PCSI-4MoM40 The Direct Band Gap of α -Sn Investigated by Infrared Ellipsometry, Rigo Carrasco , <i>C. Zamarripa, S. Zollner</i> , New Mexico State University; <i>J. Menendez</i> , Arizona State University	PCSI Session PCSI-4MoM Surface Characterization
11:50am	PCSI-4MoM41 Advanced ARPES Analyzer and Momentum Microscope KREIOS 150 – Concepts and First Results on Layered Materials and Topological Insulators, Thomas Schultmeyer , SPECS-TII, Inc.	
11:55am	PCSI-4MoM42 Investigating Relative Binding Strengths of Various Dye Attachment Chemistries at the Titania-Dye Interface in Dye-Sensitized Solar Cells, Gregory Smith , <i>B. Harvey, J. Placzek</i> , Angelo State University	

Monday Afternoon, January 14, 2019

Room Ballroom South		
2:00pm	INVITED: PCSI-1MoA1 Sequential and In-Situ Atom Probe Tomography and Optical Spectroscopy on Single Luminescent Nanoscale Objects, <i>Lorenzo Rigutti</i> , University of Rouen Normandie, France	PCSI Session PCSI-1MoA Device Interface Characterization Moderator: Kimberly Thelander, Lund University
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2:30pm	PCSI-1MoA7 The Three-dimensional Shape of Antiphase Domains in GaP on Si(001), <i>Pascal Farin</i> , Technische Universität Berlin, Germany	
2:35pm	PCSI-1MoA8 Atom Probe Tomography of GaN Vertical Power Diodes: Impurity Distribution near Regrowth Interfaces, <i>Alexander Chang</i> , Northwestern University; <i>M. Nami, B. Li, J. Han</i> , Yale University; <i>L.J. Lauhon</i> , Northwestern University	
2:40pm	PCSI-1MoA9 Surface/Subsurface Identification and Control of Ga ₂ O ₃ Native Point Defects, <i>Hantian Gao, S. Muralidharan, N. Pronin, M.R. Karim, S.M. White, T. Asef, G. Foster, S. Krishnamoorthy, S. Rajan, L.R. Cao</i> , The Ohio State University; <i>M. Higashiwaki</i> , National Institute of Information Communications Technology, Japan; <i>H. Von Wenckstern, M. Grundmann</i> , Universität Leipzig, Germany; <i>H. Zhao</i> , The Ohio State University; <i>D.C. Look</i> , Wright State University; <i>L. Brillson</i> , The Ohio State University	
2:45pm	PCSI-1MoA10 Electrically Detected Magnetic Resonance Study of Leakage Currents in a-SiN:H, <i>Ryan Waskiewicz, P. Lenahan</i> , Pennsylvania State University; <i>S. King</i> , Intel Corp.	
2:50pm	PCSI-1MoA11 Internal Mechanical Stresses Relaxation in the Si-SiO ₂ System and its Influence on the Interface Properties, <i>Daniel Kropman, V. Seeman</i> , Tartu University, Estonia; <i>A. Medvids, P. Onufrievs</i> , Riga Technical University, Latvia	
2:55pm	INVITED: PCSI-2MoA12 Light Matter Interaction in Tunable 2D Materials and Artificial van der Waals Solids, <i>Ursula Wurstbauer</i> , University of Münster, Germany	PCSI Session PCSI-2MoA Spectroscopy of 2D Materials
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3:25pm	PCSI-2MoA18 Ultrafast Enhancement of Interfacial Exchange Coupling in Ferromagnetic Co ₂ FeAl/(Ga,Mn)As Bilayer, <i>Gunter Luepke</i> , College of William & Mary	
3:30pm	Coffee Break & Poster Viewing	
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4:30pm	INVITED: PCSI-3MoA31 Magnetism in Monolayer Transition Metal Dichalcogenides, <i>Matthias Batzill</i> , University of South Florida	PCSI Session PCSI-3MoA Magnetism in 2D Materials and Interfaces Moderator: Anders Mikkelsen, Lund University
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Monday Afternoon, January 14, 2019

5:00pm	PCSI-3MoA37 Epitaxial Growth and STM Characterization of 2D Magnet MnSe ₂ and VSe ₂ , <i>Tiancong Zhu</i> , The Ohio State University; <i>D. O'Hara</i> , University of California, Riverside; <i>J. Repicky, J. Cobbert, J. Gupta</i> , The Ohio State University; <i>R. Kawakami</i> , Ohio State University-Columbus	
5:05pm	PCSI-3MoA38 Investigation of Low-Energy Ion-Implanted Multilayer Epitaxial Graphene, <i>P. Miceli, Alessandro Mazza</i> , University of Missouri	
5:10pm	PCSI-3MoA39 Large Positive Linear Magnetoresistance in the Two-dimensional t_{2g} Electron Gas at the EuO/SrTiO ₃ Interface, <i>Alexander Demkov</i> , The University of Texas	
5:15pm	PCSI-3MoA40 Exchange Bias in Single-phase Manganites Heterostructures, <i>Aiping Chen</i> , Los Alamos National Laboratory; <i>Q. Wang</i> , West Virginia University; <i>M.R. Fitzsimmons</i> , Oak Ridge National Laboratory; <i>J.L. MacManus Driscoll</i> , University of Cambridge, United Kingdom; <i>Q. Jia</i> , University at Buffalo - The State University of New York	
5:20pm	INVITED: PCSI-4MoA41 Invited Speaker, <i>Bharat Jalan</i> , University of Minnesota	
5:25pm		PCSI Session PCSI-4MoA Oxide Growth and Properties
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5:50pm	PCSI-4MoA47 Strain Enhancement of the Electro-optical Response in Semiconductor-integrated Perovskites, <i>Alexander Demkov</i> , The University of Texas	
5:55pm	PCSI-4MoA48 Synthesis of Large Area Single-crystalline Freestanding Oxide Membranes, <i>Prastuti Singh, A. Swartz, D. Lu, S.S. Hong</i> , Stanford University; <i>K. Nishio</i> , Geballe Laboratory for Advanced Materials; <i>Y. Hikita</i> , Stanford Institute for Materials and Energy Sciences; <i>H. Hwang</i> , Stanford University	

Monday Evening, January 14, 2019

PCSI Room Ballroom South - Session PCSI-MoE 2D Materials Characterization and Devices Moderator: Ursula Wurstbauer, University of Münster	
7:30pm	INVITED: PCSI-MoE1 Valley-locked Spin Photocurrents in WSe ₂ -graphene-Bi ₂ Se ₃ Lateral Heterostructures, <i>Hyunyoung Choi</i> , Yonsei University, Republic of Korea
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8:00pm	PCSI-MoE7 Ultrafast Spin and Charge Transfer in Monolayer WSe ₂ -Graphene Heterostructure Devices, <i>Michael Newburger</i> , <i>K. Luo</i> , Ohio State University-Columbus; <i>K. McCreary</i> , Naval Research Laboratory; <i>I. Martin</i> , <i>E. McCormick</i> , Ohio State University-Columbus; <i>B. Jonker</i> , Naval Research Laboratory; <i>R. Kawakami</i> , Ohio State University-Columbus
8:05pm	PCSI-MoE8 Probing Quantum Hall and Quantum Valley Hall Effect in Bilayer Graphene Nanostructures, <i>Jing Li</i> , Los Alamos National Laboratory; <i>J. Zhu</i> , The Pennsylvania State University
8:10pm	PCSI-MoE9 Optoelectronic Modulation in 2D Mo _{1-x} W _x Te ₂ Monolayers, <i>Zakaria Al Balushi</i> , UC Berkeley
8:15pm	PCSI-MoE10 Pressure-controlled Photoluminescence and Identification of an Electronic State in Hydrated Methyl-Terminated Germanane, <i>B.A. Noesges</i> , <i>T. Asel</i> , <i>W. Huey</i> , <i>S. Jiang</i> , <i>K. Krymowski</i> , <i>Y. Wang</i> , <i>W. Windl</i> , <i>J. Goldberger</i> , <i>L. Brillson</i> , The Ohio State University
8:20pm	PCSI-MoE11 Ultrafast Hot Electron Dynamics in InAs Nanowires with Variable Crystal Phases Investigated by Time-resolved Photoelectron Emission Microscopy, <i>L. Wittenbecher</i> , <i>J. Vogelsang</i> , <i>S. Lehmann</i> , <i>K. Thelander</i> , <i>D. Zigmantas</i> , <i>Anders Mikkelsen</i> , Lund University, Sweden
8:25pm	INVITED: PCSI-MoE12 Van der Waals Integration beyond 2D Materials, <i>Xiangfeng Duan</i> , UCLA
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Tuesday Morning, January 15, 2019

Room Ballroom South		
8:30am	INVITED: PCSI-1TuM1 The NV Center in Diamond: A Versatile Quantum Technology, <i>Ania Bleszynski Jayich</i> , University of California, Santa Barbara; <i>A. Jenkins, D. Bluvstein, S. Meynell, S. Baumann, Z. Zhang</i> , University of California, Santa Barbara	PCSI Session PCSI-1TuM Quantum Emitters and Excitations Moderator: Javier García de Abajo, ICFO-Institut de Ciències Fotoniques
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9:05am	PCSI-1TuM8 Stark Tuning of Single Photon Emitters in Hexagonal Boron Nitride, <i>G. Noh, D. Choi</i> , Ajou University, Korea; <i>J.-H. Kim, D.-G. Im, Y.-H. Kim</i> , POSTECH, Korea; <i>H. Seo, Jieun Lee</i> , Ajou University, Korea	
9:10am		
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9:20am	PCSI-1TuM11 Quantum Magnonics in V[TCNE] ₂ , <i>Ezekiel Johnston-Halperin</i> , The Ohio State University	PCSI Session PCSI-2TuM Atomic Scale Characterization
9:25am	PCSI-2TuM12 Surface Potential and Hydrophilicity Measurements on Titanium Dioxide before and after Ultraviolet Irradiation, <i>Takuya Furukawa, K. Noda</i> , Keio University, Japan	
9:30am	PCSI-2TuM13 Atomic-scale Observations of Reduced Graphene Oxide Nanosheets Dispersed on HOPG Substrates, <i>Shaoxian Li, T. Hirano, K. Kawai, K. Yamamura, K. Arima</i> , Osaka University, Japan	
9:35am	PCSI-2TuM14 Diamond Coated Tips for Scanning Tunneling Microscopy, <i>Ben Stein, O. Auciello</i> , University of Texas at Dallas	
9:40am	PCSI-2TuM15 Surface Physical and Chemical Processes with an Optical Scanning Tunneling Microscope, <i>Shaowei Li</i> , University of California, Irvine; <i>W. Ho</i> , Northwestern University	
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9:55am	Coffee Break & Poster Viewing	
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10:55am	INVITED: PCSI-3TuM30 Chemically and Atomically Ordered States in 2D Crystal Alloys, <i>Nasim Alem</i> , Penn State University	PCSI Session PCSI-3TuM 2D Materials and Heterostructure Growth Moderator: Susanne Stemmer, University of California, Santa Barbara
11:00am		
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11:25am	PCSI-3TuM36 Defect-Assisted Heteroepitaxial Growth of Monolayer Tungsten Diselenide Films with Preferential Orientation on Hexagonal Boron Nitride, <i>Xiaotian Zhang, F. Zhang, Y. Wang, D. Schulman, T. Zhang, A. Bansal, N. Alem, S. Das, V. Crespi, M. Terrones, J. Redwing</i> , The Pennsylvania State University	

Tuesday Morning, January 15, 2019

11:30am	PCSI-3TuM37 Novel Sulfide Heterostructures from Designed Precursors, Dennice Roberts , University of Colorado at Boulder; <i>S. Bauers, J. Perkins</i> , National Renewable Energy Laboratory; <i>C. Stoldt</i> , University of Colorado at Boulder; <i>A. Zakutayev</i> , National Renewable Energy Laboratory	
11:35am	PCSI-3TuM38 Van der Waals Growth of Zn ₃ P ₂ on Graphene for Photovoltaic Applications, Rajrupa Paul , <i>S. Escobar-Steinvall, E. Stutz, J.B. Leran, M. Zamani, A. Fontcuberta I Morral</i> , Ecole Polytechnique Fédérale de Lausanne, Switzerland	
11:40am	PCSI-3TuM39 Rotational Alignment of Epitaxially-grown hBN on Macrostepped Graphene/SiC(0001) Single-Crystal Substrates, Daniel Pennachio , University of California, Santa Barbara; <i>C. Ornelas-Skarin</i> , University of California, Irvine; <i>N. Wilson, E. Young, A. McFadden, T. Brown-Heft</i> , University of California, Santa Barbara; <i>K. Daniels, R. Myers-Ward, K. Gaskill, C.R. Eddy, Jr.</i> , U.S. Naval Research Laboratory; <i>C.J. Palmstrom</i> , University of California, Santa Barbara	
11:45am	PCSI-3TuM40 Late News 2	
11:50am		

Tuesday Evening, January 15, 2019

	PCSI Room Ballroom South - Session PCSI-TuE Quantum Materials? Moderator: Debdeep Jena, Cornell University
7:00pm	INVITED: PCSI-TuE1 Magnetic Weyl Semimetals!, <i>Claudia Felser, J. Gooth, K. Manna, E. Lui, Y. Sun</i> , Max Planck Institute, Germany
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7:30pm	INVITED: PCSI-TuE7 Invited: Ramirez or MacDonald,
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8:00pm	PCSI-TuE13 Rump Session
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Wednesday Morning, January 16, 2019

Room Ballroom South		
8:30am	INVITED: PCSI-1WeM1 Nanoimaging and Spectroscopy of Emerging Photovoltaic, <i>Marina Leite</i> , University of Maryland	PCSI Session PCSI-1WeM Hybrid and Mixed-Dimensional Interfaces I Moderator: A. Alec Talin, Sandia National Laboratories
8:35am		
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9:05am	PCSI-1WeM8 Electronic Charge Transport in Solution-processed Vertically Stacked 2D Perovskite Quantum Wells, <i>H. Tsai</i> , Rice University; <i>R. Asadpour</i> , Purdue University; <i>M. Kanatzidis</i> , Northwestern University; <i>M. Alam</i> , Purdue University; <i>A. Mohite</i> , Rice University; Wanyi Nie , Los Alamos National Laboratory	
9:10am	PCSI-1WeM9 N-type Doping in Organic Semiconductor Thin Films by using a Dendritic Oligoarylamine-substituted Benzimidazole Dopant, <i>Yuji Yoshihashi</i> , Keio University, Japan	
9:15am	PCSI-1WeM10 Temperature Effect on Charging and Transmission of Electrons Through Amorphous Solid Water, <i>R. Sagi</i> , <i>M. Ackerman</i> , Micha Asscher , The Hebrew University, Israel	
9:20am	INVITED: PCSI-1WeM11 Multi-scale Modeling of Molecule-Surface Interactions for Improved Charge Transfer across Photoelectrochemical Interfaces, <i>A. Iyer</i> , <i>K. Kearney</i> , University of Illinois at Urbana-Champaign; <i>A. Rockett</i> , Colorado School of Mines; Elif Ertekin , University of Illinois at Urbana-Champaign	
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9:50am	PCSI-1WeM17 Intrinsic Tunneling Characteristics of Aryl Alkane Monolayers Sandwiched Between Single-Layer Graphene Electrodes, <i>I. Jeong</i> , Hyunwook Song , Kyung Hee University, Korea	
9:55am	PCSI-1WeM18 Scanning Electrochemical Microscopy of Graphene-based Hybrids: Insights into Physicochemical Interfacial Processes and Electroactive Site Density Distribution, Sanju Gupta , Western Kentucky University	
10:00am	Coffee Break & Poster Viewing	
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11:00am		INVITED: PCSI-2WeM31 Epitaxial Nitride Semiconductor/Superconductor Heterostructures, Debdeep Jena , Cornell University
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Wednesday Morning, January 16, 2019

11:30am	PCSI-2WeM37 Wafer Bonding Approach for Epitaxial Al/GaAs(001)/Al Tri-layers, Anthony McFadden , M. Seas, University of California, Santa Barbara; C.R. McRae, R. Lake, National Institute of Standards and Technology; J. Wen, J. Wang, I. Arslan, Argonne National Laboratory; D. Pappas, National Institute of Standards and Technology; C.J. Palmstrøm, University of California, Santa Barbara	PCSI Session PCSI-3WeM Exploiting Ions in Devices
11:35am	PCSI-2WeM38 Growth and Nucleation of Low-Loss Titanium Nitride Superconductors on Silicon (111) using Plasma Assisted MBE, Chris Richardson , A. Alexander, C. Weddle, University of Maryland; B. Arey, M. Olszta, Pacific Northwest National Laboratory	
11:40am	PCSI-3WeM39 Clear-to-Black Dynamic Windows with Fast and Uniform Switching using Reversible Metal Electrodeposition, Christopher Barile , S. Islam, J. Juarez-Rolon, University of Nevada, Reno	
11:45am	PCSI-3WeM40 Non-volatile Redox Memory for Brain Inspired Computing, Elliot Fuller , Sandia National Laboratories; S. Keene, A. Melianas, Stanford University; Z. Wang, University of Massachusetts Amherst; S. Agarwal, Y. Li, Sandia National Laboratories; Y. Tuchman, Stanford University; C. James, M. Marinella, Sandia National Laboratories; J.J. Yang, University of Massachusetts Amherst; A. Salleo, Stanford University; A.A. Talin, Sandia National Laboratories	
11:50am	PCSI-3WeM41 Non-volatile Electrochemical Memory Operating near the Thermal Voltage Limit, Yiyang Li , E. Fuller, S. Agarwal, A.A. Talin, Sandia National Laboratories	
11:55am	PCSI-3WeM42 Simultaneous Topographical and Electrochemical Mapping using Scanning Ion Conductance Microscopy – Scanning Electrochemical Microscopy (SICM-SECM), W. Shi, Byong Kim , K. Lee, Park Systems; G. Mendoza, Park Systems, Mexico	

Wednesday Afternoon, January 16, 2019

Room Ballroom South		
2:00pm	INVITED: PCSI-1WeA1 Thermal Atomic Layer Etching of Silicon Using an Oxidation and "Conversion-Etch" Mechanism, <i>Steven M. George, A. Abdulagatov</i> , University of Colorado at Boulder	PCSI Session PCSI-1WeA Atomic Layer Deposition & Etching II Moderator: Angel Yanguas-Gil, Argonne National Laboratory
2:05pm	Invited talk continues.	
2:10pm	Invited talk continues.	
2:15pm	Invited talk continues.	
2:20pm	Invited talk continues.	
2:25pm	Invited talk continues.	
2:30pm	PCSI-1WeA7 Fundamental Properties for Enhanced Etching of Ge Surfaces in Water Assisted by Single Sheets of Reduced Graphene Oxide, <i>Tomaki Hirano, Y. Nakata, H. Yamashita, S. Li, K. Kawai, K. Yamamura, K. Arima</i> , Osaka University, Japan	
2:35pm	PCSI-1WeA8 Laser-patterning of Graphene Oxide Beyond the Diffraction Limit, <i>Maksim Fatkullin</i> , Tomsk Polytechnic University, Russia	
2:40pm	PCSI-1WeA9 Maskless Si Nano-wall Formation by Wet-etching Process using a Femtosecond Laser Irradiation, <i>S. Lee</i> , Pusan National University, South Korea; <i>Hyun Hwi Lee</i> , Pohang Accelerator Laboratory, South Korea; <i>H.J. Kim</i> , Pusan National University, South Korea	
2:45pm	PCSI-1WeA10 Epitaxial (Bi,Sb) ₂ Te ₃ /Graphene/2D-Ga Heterostructures Towards Topological Superconductivity, <i>Brian Bersch, N. Briggs, J. Jiang, Y. Zhao, Y.-W. Chuang, C. Li, Y. Wang</i> , The Pennsylvania State University; <i>M. Fu, Q. Zou, Z. Gai, A.-P. Li</i> , Oak Ridge National Laboratory; <i>M. Chan, C.-Z. Chang, V. Crespi, J. Zhu, J. Robinson</i> , The Pennsylvania State University	
2:50pm	Talk continues.	
2:55pm	Talk continues.	
3:00pm	PCSI-1WeA13 Late News 3,	
3:05pm	PCSI-1WeA14 Late News 4,	
3:10pm	PCSI-1WeA15 Late News 5,	
3:15pm	Coffee Break & Poster Viewing	
3:20pm	Coffee Break & Poster Viewing	
3:25pm	Coffee Break & Poster Viewing	
3:30pm	Coffee Break & Poster Viewing	
3:35pm	Coffee Break & Poster Viewing	
3:40pm	Coffee Break & Poster Viewing	
3:45pm	Coffee Break & Poster Viewing	
3:50pm	Coffee Break & Poster Viewing	
3:55pm	Coffee Break & Poster Viewing	
4:00pm	Coffee Break & Poster Viewing	
4:05pm	Coffee Break & Poster Viewing	
4:10pm	Coffee Break & Poster Viewing	
4:15pm	INVITED: PCSI-2WeA28 Hexagonal Boron Nitride for Quantum and Nonlinear Optics, <i>Alexander Solntsev, I. Aharonovich</i> , University of Technology Sydney, Australia	PCSI Session PCSI-2WeA Applications of 2D Defects and Interfaces Moderator: Ania Bleszynski Jayich, University of California, Santa Barbara
4:20pm	Invited talk continues.	
4:25pm	Invited talk continues.	
4:30pm	Invited talk continues.	
4:35pm	Invited talk continues.	
4:40pm	Invited talk continues.	
4:45pm	PCSI-2WeA34 Detection of Thermodynamic "Valley Noise" in Monolayer Semiconductors: Access to Intrinsic Valley Relaxation Timescales, <i>Mateusz Goryca</i> , National High Magnetic Field Laboratory; <i>N. Wilson</i> , University of Washington; <i>P. Dey</i> , National High Magnetic Field Laboratory; <i>X. Xu</i> , University of Washington; <i>S. Crooker</i> , National High Magnetic Field Laboratory	
4:50pm	Talk continues.	
4:55pm	Talk continues.	
5:00pm	INVITED: PCSI-2WeA37 The Electronic Structure of 2D Materials, <i>Justin Wells</i> , Norwegian University of Science and Technology, Norway	
5:05pm	Invited talk continues.	
5:10pm	Invited talk continues.	
5:15pm	Invited talk continues.	
5:20pm	Invited talk continues.	
5:25pm	Invited talk continues.	

Thursday Morning, January 17, 2019

PCSI Room Ballroom South - Session PCSI-ThM Hybrid and Mixed-Dimensional Interfaces II Moderator: Marina Leite, University of Maryland		
8:30am	INVITED: PCSI-ThM1 Excitons and Exciton Confinement in Organic Heterojunctions, <i>Stephen Forrest</i> , University of Michigan	
8:35am	Invited talk continues.	
8:40am	Invited talk continues.	
8:45am	Invited talk continues.	
8:50am	Invited talk continues.	
8:55am	Invited talk continues.	
9:00am	Invited talk continues.	
9:05am	Invited talk continues.	
9:10am	PCSI-ThM9 Panel Discussion II - Forrest, Leite, Ertekin,	
9:15am	Talk continues.	
9:20am	Talk continues.	
9:25am	Talk continues.	
9:30am	Talk continues.	
9:35am	Talk continues.	
9:40am	Talk continues.	
9:45am	Talk continues.	
9:50am	Talk continues.	
9:55am	Talk continues.	

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