

Paper Number	Poster Title	First Name	Last Name	Affiliation
6i	New Frontiers: Membrane Fouling Remediation for Sustainable Water & Industrial Wastewater Treatment Technologies	Amira	Abdelrasoul	Ryerson University
6dx	Continuous and Oscillatory Multi-Phase Microscale Technologies for Pharmaceuticals, Materials and Energy	Milad	Abolhasani	Massachusetts Institute of Technology
6jl	Development of Advanced Polymeric Membranes for Water-Energy Nexus Challenges	Pejman	Ahmadiannamini	University of Arkansas
6ef	Highly Active and Durable Extended Surface Electrocatalysts	Shaun M.	Alia	National Renewable Energy Laboratory
6dm	Incorporation of Metal Oxides to Activated Carbon for the Adsorption of Acid Gases	Jose Luis	Altamirano-Corona	Universidad Michoacana de San Nicolás de Hidalgo
6dj	Toward Understanding the Atmospheric Chromium Chemistry	Mehdi	Amouei Torkmahalleh	Chemical Engineering Program, Middle East Technical University Northern Cyprus Campus
6bo	High Resolution Carbon Nanotube Enantiomer Separation By Specific DNA Sequences	Geyou	Ao	National Institute of Standards and Technology
6it	Robust Adaptive Model Predictive Control of Chemical and Biological Systems	Davood	Babaei Pourkargar	The Pennsylvania State University
6ga	Separation and Catalysis Using Nanoporous Materials: A Computational Approach	Peng	Bai	University of Minnesota
6ha	Transition Metal-Oxides for Sustainable Energy Conversion and Storage: The Computational Catalysis Perspective	Michal	Bajdich	Stanford University
6di	Organ-on-a-Chip Platforms to Mimic Physiology for Drug Screening	Shyam Sundhar	Bale	Center for Engineering in Medicine (CEM) at Massachusetts General Hospital – Harvard Medical School - Shriners Hospital for Children
6bu	Porous Materials: A Unique Platform for Separations and Catalysis	Gokhan	Barin	University of California, Berkeley
6bx	Design of Functional Polymeric Materials: From Ion Transport to Bio-Inspired Assembly	Katherine P.	Barteau	
6fh	Soft Materials Engineering: From Colloids to Biological Interfaces	Peter J.	Beltramo	University of Pennsylvania
6eg	Dynamic Modeling and Design of Colloidal Assembly	Daniel J.	Beltran-Villegas	University of Michigan
6ey	Directed Assembly at All Length Scales: The Pathway Towards Future Metamaterials	Bhuvnesh	Bharti	North Carolina State University
6bs	Thermodynamics and Kinetics for Energy, Environment and Materials: A Comprehensive Research Initiative Based on Experimental and Theoretical Investigation	Sanjoy	Bhattacharia	Texas Tech University
6ge	Corona Phase Molecular Recognition of Fibrinogen	Gili	Bisker	Massachusetts Institute of Technology
6hj	Data-Centric Optimization: Methods and Applications	Fani	Boukouvala	Texas A&M University
6dy	Experimental and Computational Studies of Fluid-Particle Flow Systems	Christopher M.	Boyce	Princeton University
6dv	Molecular Interactions and Behavior in Complex Systems	Blair Kathryn	Brettmann	University of Chicago
6jg	Supramolecular Mesochemistry: Engineering Materials from the Bottom Up	Carson J.	Bruns	
6im	Membrane Materials and Transport Studies for Sustainable Water, Energy and Life Sciences	Ngoc	Bui	Lawrence Livermore National Laboratory
6du	Design of Injectable Hydrogels for Regenerative Medicine	Lei	Cai	Stanford University
6am	Multi-Scale Process Systems Engineering	Bruno A.	Calfa	University of Wisconsin-Madison
6fk	Engineered Natural Biomaterials for Understanding the Interplay Between Cells and Their Environment	Steven R.	Caliari	University of Illinois at Urbana-Champaign
6ab	The Applications of Spherical Polyelectrolyte Brushes	Yu	Cang	East China University of Science and Technology
6q	Integrating Computational Chemistry, Molecular Simulation, and Chemical Engineering	David C.	Cantu	Pacific Northwest National Laboratory

6hx	Heterogeneous Catalysis: Synthesis and Spectroscopy of Supported Metal Oxide Catalysts for Natural Gas Upgrading	Carlos	Carrero	University of Wisconsin-Madison
6gu	Programming Macromolecular Assemblies with Controlled Architecture and Size Towards Packaging and Delivery of Peptide-Based Therapeutics	Nick	Carroll	Duke University
6hw	Exploring Biomolecular Engineering Strategies for Addressing Challenges in Therapeutic Design, Delivery and Purification	Divya	Chandra	Rensselaer Polytechnic Institute
6d	Genome-Scale Models for Systems Biology and Combinatorial Drug Discovery	Sriram	Chandrasekaran	Harvard University
6id	Emerging Patterns in Soft Materials from Geometric Confinement	Ya-Wen	Chang	Georgia Institute of Technology
6de	Performance Comparison of Ethanol and Butanol Production in a Continuous and Closed-Circulating Fermentation System with Membrane Bioreactor	Chunyan	Chen	
6ia	Morphology and Ion Transport in Polymer Electrolyte Membranes	Xi Chelsea	Chen	Lawrence Berkeley National Laboratory
6ju	Design of Hierarchical 3D Architectures for Energy, Electronic Applications	Po-Yen	Chen	Massachusetts Institute of Technology
6t	Hierarchical Nanostructured and Polymeric Materials for Energy Storage and Conversion	Zheng	Chen	Stanford University
6fq	Multi-Physical / Multi-Scale Modeling for Nanotechnology Convergence Systems	Pil Seung	Chung	Carnegie Mellon University
6gv	Accelerating Materials Discovery with Data Science	Yongchul G.	Chung	Northwestern University
6cw	The Effects of Leg Length on the Flow Field and Separation Process of Cyclone Separator	Hui	Ci	China University of Petroleum-Beijing, Beijing, China
6dg	The Role of Microfluidic Interfaces in Metals Extraction, Soil and Fertilizers	Davide	Ciceri	Massachusetts Institute of Technology
6ii	Linear and Non-Linear Programming Techniques for Process Intensification	Jeremy A.	Conner	University of California, Los Angeles
6a	Metal-ion-based materials chemistry for hydrocarbon separations, energy, and electronics applications	Matthew G.	Cowan	University of Colorado at Boulder
6fu	Accelerating the Speed and Scale of Metabolic Engineering in Challenging Biological Contexts	Nathan	Crook	The University of Texas at Austin
6hv	Developing Noble Metal/TiO <sub>2</sub> and Swnt/TiO <sub>2</sub> Composites to Improve Light Harvesting and Carrier Collection of Solar Cells	Xiangnan	Dang	Massachusetts Institute of Technology
6gh	Engineering Nanoparticles As Theranostic Probe and Understanding Their Interaction with the Lysosome-Autophagy System	Gautom	Das	University of California
6l	Thermochemical Cycles for the Production of Essential Chemicals	Timothy	Davenport	California Institute of Technology
6ix	Low temperature carbon dioxide reduction to carbon monoxide on perovskite-type oxides	Yolanda	Daza	
6ai	Mesoscale Modeling of 2D Materials for Energy and Biomedical Applications	Sanket A.	Deshmukh	Argonne National Laboratory
6jb	Integrated single-cell genomics: Combined epigenome and transcriptome sequencing of single cells to understand cellular differentiation	Siddharth	Dey	
6cy	Numerical Simulation of a Delayed Coking Reactor	Fabian A.	Diaz	UIS
6v	Site-Specific Techniques for Identification of Active Sites of Supported Transition Metal Oxide and Late Transition Metal Catalysts	Kunlun	Ding	
6hu	Functional Polymeric Materials for Sustainable Energy and Biomedical Applications	Shudipto Konika	Dishari	The Pennsylvania State University

414g	Charge-Storage Mechanisms for High Surface Area Carbides and Nitrides	Abdoulaye	Djire	University of Michigan
6io	Programmable Dynamic Materials As Information Carriers	Fateme Sadat	Emami	Northwestern University
6el	Tuning the Ionic Conductivity of Polymerized Ionic Liquid Homo-, Random, and Block Copolymers	Christopher M	Evans	University of California-Santa Barbara
6p	Systems Biology Approaches to Develop Precision Therapeutic Approaches to Overcome Drug Resistance in Cancer	Mohammad	Fallahi-Sichani	Harvard Medical School
6eb	Design and Fabrication of Nanostructured Materials for Energy Applications and Functional Nanocoating	Ling	Fei	Cornell University
6cx	Mechanical Work Makes Important Contributions to Surface Chemistry	Michael	Francis	EPFL
6bt	Hydrodynamics and Phase Separation in Complex Fluids	John	Frostad	Stanford University
6eo	Nanobioelectronics in Healthcare: From Nanobots to Wearable Biosensors	Wei	Gao	UC Berkeley
6hs	Rational Design of High-Performance Catalysts for Sustainable Energy Conversion and Storage	Max	García-Melchor	Stanford University
6ex	Genetically Engineered Peptides and Proteins: A Platform for Programming Bio-Inspired Functional Materials and Analytical Assays	Ali	Ghoorchian	Duke University
6dz	Functional Polymers for Industrial and Bio-Applications: Synthesis, Properties & Engineering	Manos	Gkikas	Massachusetts Institute of Technology
6bv	Phase Transitions and Self-Assembly of Block Copolymers, Colloids and Proteins	Jens	Glaser	University of Michigan
6gk	Understanding and Predicting the Activity of Zeolite Catalysts	Florian	Görtl	UW Madison
6gq	Accelerated Computational Discovery of Materials for Production, Storage, and Efficient Use of Energy	Diego A.	Gomez Gualdrón	Northwestern University
6eu	Modeling Porous Materials and Confined Fluids from Atomistic to Continuum Scales	Gennady	Gor	Rutgers, The State University of New Jersey
6fi	Multiscale Design of Gas-Phase Synthesis of Nanomaterials	Eirini	Goudeli	ETH Zurich
6ck	Effect of Filler on Properties Bamboo Fiber Reinforced Epoxy Composites	Anu	Gupta	
6jh	Energy Storage Devices and Advanced Electrochemical Separation Processes	Burcu	Gurkan	University of Notre Dame
6hq	Computer-Aided Molecular Engineering of Crystallization: From Colloidal Assembly to Geoengineering	Amir	Haji-Akbari	Princeton University
6cn	Engineering Therapeutics for Vascular Disease	Donny	Hanjaya-Putra	Wyss Institute for Biologically Inspired Engineering
6ah	Computational and Experimental Studies for Advancement of Sustainable Energy Systems	Pramod K. W.	Harikumar Warriar	
6jj	Conducting (flowable) suspension electrodes for water and energy technologies	Kelsey	Hatzell	
6ct	Effect of Salinity on Surfactant Enhanced Oil Recovery with Special Reference to Upper Assam Basin	Kalpajit	Hazarika	Dibrugarh University
6ev	Development of Minimally Invasive Tools for Genetic Monitoring of Pancreatic Health	Andrew J.	Hilmer	Stanford University
6fb	Engineering the Flow Properties of Colloidal Materials	Lilian C.	Hsiao	Massachusetts Institute of Technology
6bb	Modeling-Inspired Membrane and Particle Devices for Solar Fuels and Environmental Remediation	Shu	Hu	California Institute of Technology
6cc	Bioengineered Personalized Disease Models for Precision Medicine	Jen-Huang	Huang	Los Alamos National Laboratory
6fc	Light-Activatable Nanoconstructs for Mechanism-Based Combination Therapy	Huang Chiao	Huang	Massachusetts General Hospital and Harvard Medical School

6o	Numerical Experiments of Density Driven CO2 Saturated Brine Migration in Heterogeneous Geologic Fabric Materials	Akand	Islam	The University of Texas at Austin
6aq	Micro/Nanoarchitected Materials of Novel Surface Properties	Hadi	Izadi	
6by	Structure, Deformation, and Flow of Soft Materials	Vikram	Jadhao	
6ar	Simulation of Concentrated Suspensions in Thin Film Processing	Mahyar	Javidi	University of Western Ontario
6jv	Research in thermochemical conversion of biomass and organic wastes into renewable fuels and high value co-products	Umakanta	Jena	Desert Research Institute
6fd	First-Principals Modeling of Methanol Fuel Cells: Kinetics and Catalyst Design	Glen	Jeness	Catalysis Center for Energy Innovation (CCEI)
6b	Responsible Environment and Energy Engineering; Systems, Complexity, Sustainability	Cory	Jensen	Federal Energy Regulatory Commission
6dq	Engineering Non-Model Eukaryotes for the Production of Sustainable Fuels, Chemicals, and Pharmaceuticals	Robert	Jinkerson	Carnegie Institution, Stanford University
6iv	Optimizing Metabolic Pathways for the Improved Production of Natural Products	J. Andrew	Jones	Rensselaer Polytechnic Institute
6ap	Engineering Biomimetic Membranes	Neha	Kamat	Harvard University and Massachusetts General Hospital
6iu	Shaping Catalysis through Tailored Nanostructures: For Energy Conversion and Storage	Yijin	Kang	University of Electronic Science and Technology of China
6ay	Computational Catalysis Design for Fuel Synthesis	Mohammadreza	Karamad	Stanford University
6jd	Water-Energy Nexus Focusing on the Application and Modification of Membrane-Based Desalination Processes	Laila	Karimi	1Institute for Energy and the Environment/WERC New Mexico State University
6ac	Sustainable Design through Process Integration, Control and Optimization	Monzure-Khoda	Kazi	Qatar University
6ci	Seeing Is Believing - Macrophage-Targeted Theranosis	Rahul	Keswani	University of Michigan
6ag	Microfluidic Studies of Emulsions and Suspensions in Wall-Bounded Shear Flow	Fatemeh	Khalkhal	University of California at Berkeley
6cu	Carbon Capture and Sequestration Technology for Greenhouse Gas Mitigation	Lokesh	Khotele	
6hf	Optimization of Protein/Peptide Electrostatic Properties for Bioengineering Applications	Chris A.	Kieslich	Texas A&M University
6bj	From Vapors to Films: Creating Smart Surfaces Via Vapor-Phase Depositions	Do Han	Kim	Massachusetts Institute of Technology
6hn	Engineering a Nano Display Platform from Bacterial Spore Coat Proteins	Edward Y.	Kim	University of California
6je	Biomaterials--based Charge Storage Devices for Edible Electronics	Young Jo	Kim	
6fw	Towards the Next Generation of Magnetic Resonance Spectroscopy: Harnessing Light and Spin	Jonathan	King	University of California, Berkeley
6af	Towards a Sustainable Energy Future: The Role of Science-Driven Modeling and Systems Analysis	N.V.S.N. Murthy	Konda	U.S. Department Of Energy, National Energy Technology Laboratory
6bd	Multiphase Flow Research for Sustainable Production and Use of Energy, Chemicals and Water	Bo	Kong	Iowa State University
6et	The Physical Cell: Impact of Mechanics and Rheology on Cellular Function	Elena F.	Koslover	Stanford University
6gw	The Synthesis, Design, and Tunable Functionalization of Nano-Engineered Materials	Laura	Kraya	Princeton University
6gx	Optoelectronic and Electronic Interfaces to the Brain	Ramsey	Kraya	Johns Hopkins University
6k	Developing Advanced Solid Oxide Fuel Cell (SOFCs) Stacks and Systems	Venkatesan V.	Krishnan	
6ht	Investigation of Materials, Interfaces, and Processes Promoting Efficiency in Solar Energy Conversion Technologies	Coleman	Kronawitter	Princeton University

6j	Influence of Cu-Cr Layered Double Hydroxide (LDH) on the Rheological Properties and Thermal Degradation Kinetics of PMMA Nanocomposites	Manish	Kumar	
6iz	Photoelectrochemical solar energy conversion system : New materials and concepts	Aravind	Kumar Chandiran	
6z	Ultrasound-Responsive Nanoparticles for Drug Delivery	James J.	Kwan	Columbia University
6gm	Smart Membranes with Hygro-Responsive Surfaces for Efficient Separation of Liquid Mixtures	Gibum	Kwon	Massachusetts Institute of Technology
6iq	Rational Design of Catalytic and Hydrocarbon Trapping Materials to Meet Automotive Emissions Regulations	Eleni A.	Kyriakidou	Oak Ridge National Laboratory
6gy	Unraveling the Chemistry of Energy Systems	Nicole	Labbe	Argonne National Laboratory
6gf	Interfacial Interactions and the Design of Smart Materials	Stephanie	Lam	National Institute of Standards and Technology
6dp	Preparation and Carbon Dioxide Separation Performance of a Hollow Fiber Supported Ionic Liquid Membrane	Wenjie	Lan	China University of Petroleum, Beijing
6em	Solid Formation in Flow: A Kinetic and Fluid Dynamic Approach	Stefano	Lazzari	MIT
6cp	Orders of Magnitude of Sudden Increases of X-Ray Diffraction Intensity in Surfactant-Based Liquid Crystals Triggered By Co-Self-Assembly	Yoon Seob	Lee	
6ho	Understanding Gas-Metal Interactions for Clean Energy Applications	Kyoungjin	Lee	Stanford University
6fo	Engineering Biomimetic Self-Assembled Materials	Lorraine F.	Leon	University of Chicago
6cv	Hydrodynamic Simulation of a Bubbling Fluidized Bed with MP-PIC Method	Fei	Li	
6df	A Study on the Liquid Phase Oxidation of Toluene By Pure Oxygen in a Mini-Channel Reactor	Airong	Li	College of Chemistry and Chemical Engineering
6e	Vine Copula-Based Dependence Description for Multivariate Multimode Process Monitoring	Shaojun	Li	Key Laboratory of Advanced Control and Optimization for Chemical Processes, Ministry of Education, East China University of Science and Technology
6fa	Catalysis for Energy and Environmental Applications	Zhenglong	Li	Purdue University
6fg	New Chemical and Biological Processes for Next Generation Biorefining	Zhenglun	Li	Oregon State University
6r	Understanding and Harnessing Nature's Synthetic Potential to Advance Modern Drug Development	Yanran	Li	Stanford University
6hz	First-Principles Computational Chemistry Research in Sustainable Energy and Catalysis	Peilin	Liao	Northwestern University
6cz	Smart Gating Membranes with K+-Responsive Pore Size and Surface Property	Zhuang	Liu	Sichuan University
6js	High energy batteries: materials design and optical diagnostic tool development	Nian	Liu	
6bl	Development of Novel Poly(Ionic Liquid) Membranes for Electrodialytic Separations and Desalination	Alexander	Lopez	University of Colorado at Boulder
6in	Accelerating Ring-Polymer Molecular Dynamics Simulation - a Parallel-Replica Dynamics Approach	Chun-Yaung	Lu	Stanford University
6ed	Biomass Pretreatment Using Ionic Liquid and Glycerol Mixtures	Joan G.	Lynam	University of Nevada, Reno
6gd	Rational Way of Designing Microfluidic Devices for Energy and Bioengineering Applications	Jeevan	Maddala	SYSENG, LLC
6x	Rational Design of Electrochemical Interfaces for Control over Separation and Catalytic Processes	Xianwen	Mao	Massachusetts Institute of Technology
6bz	Molybdenum Dioxide-Based Catalysts for the Generation of Electrical Power from Biofuels	Oscar	Marin-Flores	Washington State University
6db	Qsrr Study	Imen	Messaoudi	

6go	Recovery of Folded Heterologous Proteins in the Extracellular Space from Bacterial Culture	Kevin James	Metcalf	University of California, Berkeley
6hb	Rational Design of Redox Materials and Catalysts for Conversion and Storage of Renewable Energy	Ronald	Michalsky	Brown University
6ds	Solvent-Based Control over Nanostructure of Midblock Sulfonated Block Copolymers	Kenneth	Mineart	North Carolina State University
6ca	Polymeric Mechanical Amplifiers of Tumor Cell Death	Michael J.	Mitchell	MIT
6fp	Understanding Solar-Fuel Systems from the Nanoscale to the Device Level	Miguel	Modestino	École polytechnique fédérale de Lausanne
6f	Visualization of Transport Dynamics in Complex Fluids	Hadi	Mohammadigoushki	UC Berkeley
6dl	Study on Thermal Effects of Natural Gas Adsorption and Desorption in Activated Carbon	Rafael A.	Morales Ospino	Inspectorate Colombia
6jq	Fundamental Modeling of Gas-Solid and Granular Flows	Aaron	Morris	The University of Colorado Boulder
6s	Material Preparation and Kinetic Study of Catalysts	Takahiko	Moteki	University of Illinois Urbana-Champaign
6fr	First-Principles-Based Multiscale Modeling of Functional Nanomaterials	Jonathan E.	Mueller	Helmholtz Institute Ulm
6ff	From Fluorescence to Magnetic Resonance: Engineering Proteins for Molecular Imaging	Arnab	Mukherjee	California Institute of Technology
6hm	Molecular Simulations of Chemical Reactions	Ryan Gotchy	Mullen	University of California
6jk	Flowable Slurry Electrodes for Electrochemical Processes	Enoch	Nagelli	
6aj	Microstructure and Collective Dynamics of Cytoskeletal Assemblies	Ehssan	Nazockdast	New York University
6bw	Polymerization within Porous Media: Transformative Coatings and Interfaces Lab (TCIL)	Siamak	Nejati	Yale University
6bf	Controlling the Metabolic Activity of Bacterial Cells By Physico-Chemical Factors	Tagbo H.R.	Niepa	University of Pennsylvania
6as	Nature-Inspired Approaches to Catalytic Materials Design	Michael M.	Nigra	University College London
6cj	Novel Nanostructured Coatings for Use in Transport Applications	Stephanos	Nitodas	Glonatech S.A.
6hy	Synthetic Modification of Proteins to Create New Biomaterials	Allie	Obermeyer	Massachusetts Institute of Technology
6hk	Accelerating the Onset of the Hydrogen Economy	Fernando	Olmos	UCLA
6es	Engineering a Non-Enzymatic Analog of the Glycolysis Pathway	Marat	Orazov	California Institute of Technology
6ie	Solids and Particulate Processing Applications	Juan G.	Osorio	Purdue University
6bg	Development of Calcium-Based Liquid Metal Batteries for Grid Scale Energy Storage	Takanari	Ouchi	Massachusetts Institute of Technology
6c	Sustainability Considerations in Production of Fluids from Shales	Palash	Panja	
6hl	Integrating Experimental and Computational Approaches to Discover and Design (Therapeutic) Proteins	Robert J.	Pantazes	University of California, Santa Barbara
6bp	Polymer/Nanomaterial Structural Control Using Flow and Confinement: Modeling, Experiment, and Applications	Jay Hoon	Park	Cornell University
6hr	Functional Polymers for Widespread Energy Applications	Shrayesh N.	Patel	University of California, Santa Barbara
6jf	Porous Nano-Structured Doped Materials for Energy-Related Applications	Maryam	Peer	Massachusetts Institute of Technology
6gs	Dual Conduction Polymers for Energy Conversion and Storage	Bhooshan C.	Popere	University of California Santa Barbara
6dw	Theoretical Approaches to the Design of Clean-Energy Processes and Materials	Peter C.	Psarras	Stanford University
6al	Computational Modeling and Experimental Investigation for Membranes at the Water – Energy Nexus	Milad	R.Esfahani	Tennessee Technological University
6gr	Modeling Biomass and Its Conversion to Fuels and Specialty Chemicals	Brooks D.	Rabideau	RWTH Aachen University

6e	Vine Copula-Based Dependence Description for Multivariate Multimode Process Monitoring	Xiang	Ren	Key Laboratory of Advanced Control and Optimization for Chemical Processes, Ministry of Education, East China University of Science and Technology
6au	Merging Electrochemical Devices, Protein Engineering and Tissue Engineering: A Multi-Disciplinary Approach to Electrode Structures and Stem Cell Culture	Julie N.	Renner	Proton OnSite
6fn	Composite Nanoparticles for Energy Generation & Storage Applications	Jeffrey J.	Richards	University of Washington
6iw	First-Principles Approaches to Fuel Cell Catalyst Design	Luke T.	Roling	University of Wisconsin-Madison
6en	Fundamental and Applied Studies of Dynamic Self-Assembled Biomaterials	Adrienne M.	Rosales	University of Colorado-Boulder
6gc	Advanced Biological Imaging Probes and Sensors Using the Intrinsic Optical Signals of Single-Walled Carbon Nanotubes	Daniel	Roxbury	Memorial Sloan Kettering Cancer Center
6g	Rheology and Dynamics of Colloidal Superballs	John R.	Royer	
6gt	Applied Synthetic Biology for Engineering Metabolism and Synthetic Microbial Communities	Charles	Rutter	Univeristy of Illinois - Urbana Champaign
6fx	Systems and Synthetic Biology of Photosynthetic Organisms for Biorenewable Chemicals	Rajib	Saha	Washington University
6ez	Hybrid Nanomaterials for Energy Harvesting	Ayaskanta	Sahu	University of California at Berkeley
6gl	Model Colloid System for the Direct Observation of Interfacial Sorption Kinetics	Paul F.	Salipante	National Institute of Standards and Technology
6ep	Micro and Nano-Rheological Methods for Interfacial and Bulk-Fluid Systems	Joseph	Samaniuk	ETH Zürich
6bc	Microwave Assisted Heating of Human Blood at 2450 MHz Frequency Using Various Composite Supports	Sujoy Kumar	Samanta	IIT Patna
6bn	Computational Models for Growth and Defects of Melt-Grown Crystals	Gaurab	Samanta	
6dn	Ballistic Performance Assessment Is a Must for Shelf Life Assessment of Rocket Motors	Mohammad H	Sammour	
6hd	Expanding the Genome Engineering Toolkit: Increasing Signal to Noise	Nicholas R.	Sandoval	University of Delaware
6dh	Novel Routes to the Synthesis of Fuels/Lubricants and Chemicals from Biomass Derived Synthons	Shylesh	Sankaranarayanapilla	
6ja	Innovating Multiphase Contactor Design with Advanced Experimental and Simulation Tools	Mayur	Sathe	Louisiana State University
6bq	Preparation of Multimetallic Catalytic Systems By Controlled Surface Reactions for Biomass Upgrading	Canan	Sener	University of Wisconsin-Madison
6co	A New Approach to Predict the Dynamic Interactions Between an Air Bubble/Drop and a Flat Solid Surface	Mansoureh	Shahalami	University of Alberta
6fv	Accelerating Discovery of Advanced Materials through Simulation	Qing	Shao	North Carolina State University
6y	A New Hybrid Modeling Strategy: Data-Driven Models with First-Principle Constraint	Li	Shaojun	Shanghai East China University of Science and Technology
6ji	Integrated design and operation for energy security and environmental protection	Mahdi	Sharifzadeh	Imperial College London
6bh	Rational Materials Design for Energy Conversion and Storage Applications	Jingmei	Shen	Northwestern University
6fy	Multifunctional Electrocatalysts for Waste Utilization	Sujan	Shrestha	The City College of New York
6ax	Rational Catalyst Design for Renewable Energy Technologies	Samira	Siahrostami	Stanford University
6be	Advanced Membrane Materials for Energy Efficient Separations	Rajinder P.	Singh	Los Alamos National Laboratory
6hh	Materials and Systems Engineering for Healthcare and Energy Applications – from Discovery to Design	Meenesh R.	Singh	Lawrence Berkeley National Laboratory



6hp	Applied Pharmaceutical Process System Engineering	Ravendra	Singh	Rutgers University
6ik	Membranes for Energy-Efficient Separations	Zachary P.	Smith	University of California, Berkeley
6jt	Computationally Assisted Biofuel Production: Hydrodynamics, Optimization, and Heuristics	Justin	Smith	The University of Tulsa
6av	Advanced Materials for the Water-Energy Nexus	Hossein	Sojoudi	Massachusetts Institute of Technology
6ch	Engineering Interleukin-2 Antibodies to Shape Immune Homeostasis	Jamie B.	Spangler	Stanford University School of Medicine
6er	High Performance Computing for Engineered Human Health Systems	Andrew P.	Spann	The University of Texas at Austin
6il	Data Science and Omics Approaches for Network Biology	Gautham V.	Sridharan	Center for Engineering in Medicine (CEM) at Massachusetts General Hospital, Harvard Medical School, Shriners Hospital for Children
6dr	Nano-Engineered Functional Materials for Energy Storage and Biomimetic Applications	Samanvaya	Srivastava	University of Chicago
6gz	3D, Self-Assembled, Membrane-Electrode Assemblies for Advanced Electrochemical Devices	Samuel	St. John	University of Tennessee
6cl	Challenges and Progress for Cogeneration of Power and Hydrogen from Nested Carbon-Air/Carbon-Steam Fuel Cells	S. Michael	Stewart	Stanford University
6he	Design Principles and Performance Metrics for Realizing Cost-Effective Electrochemical Technologies for Energy Storage	Liang	Su	Massachusetts Institute of Technology
6ew	Engineering Immunity: Design and Development of Customized Nanomaterials with Controlled Immunostimulatory Effects for Biomedical Applications	Bingbing	Sun	University of California, Los Angeles
6n	Programming 3D Energy-Efficient Nano-Electronics at 2-Nm Resolution	Wei	Sun	Wyss Institute for Biologically Inspired Engineering at Harvard University
6jr	Innovative applications in tissue engineering and regeneration	Sumati	Sundaram	
6ej	Application of the Technique of Chemical Vapor Deposition of Polymers to a Broad Spectrum of Research Projects – from Nuclear Fusion to Water Purification	Aravind	Suresh	University of Connecticut
6cq	Study of the Performance Characteristics of a Stirred Tank Reactor Suitable for Diffusion Controlled Liquid-Solid Catalytic Reactions	M. M.	Taha	Alexandria University
6gp	Understanding and Controlling the Mechanical Properties of Polymeric Networks	Shengchang	Tang	Massachusetts Institute of Technology
6ba	Interfacial Processes in Energy Storage and Conversion Devices	Hadi	Tavassol	Caltech
6fz	Engineering Faster Reactions: Catalysis and Transport from Energy to Pharmaceuticals	Andrew	Teixeira	MIT
6gn	Responsive Hydrogels for 4D Cell Culture and Controlled Drug Delivery	Mark W.	Tibbitt	University of Colorado
6ad	Engineering the Plant Microbiome to Complement Host Phenotype	Collin M.	Timm	University of Wisconsin-Madison
6ih	Design and Optimization of Nano- and Macro-Scale Biomaterials for Vaccines and Immunomodulation	Talar	Tokatlian	Massachusetts Institute of Technology
6w	Increasing Global Access to Diagnostic Testing Using Low-Cost, Non-Instrumented Paper-Based Microfluidics	Bhushan J.	Toley	University of Massachusetts, Amherst
6ee	From DNA to Polymer Membranes: Soft Materials for the 21st Century	Douglas R.	Tree	University of Minnesota
6fj	Hierarchical, Nature-Inspired Nanomaterials for Electrochemical Energy Conversion/Storage Devices	Panagiotis	Trogadas	University College London
6bm	Applied Statistics and Data Analytics for Advanced Process Systems Engineering	Aditya	Tulsyan	Massachusetts Institute of Technology



6gi	Design of New Materials and Understand Emergent Behavior Using Computational Methods	Naga Rajesh	Tummala	The University of Oklahoma
6iy	Performance Advances in Electrochemical Energy Storage and GHG Recycling	Damon	Turney	City University of New York
6hc	Nanoscale Simulation and Design for Molecular Sensors and Reaction Engineering	Zachary	Ulissi	Massachusetts Institute of Technology
6jm	Tissue Engineering: From Microfluidic Devices to Biopreservation	Berk	Usta	University of Florida
6aw	Development of Functional Materials for siRNA Delivery and Neural Tissue Engineering	Metin	Uz	Iowa State University
6hg	Non-Equilibrium Self-Assembly and Structures	Amir	Vahid	Northwestern University
6ib	Rational Design of Catalytic Sites for Energy Applications	Timothy	Van Cleve	University of Michigan
6ak	Conversion of Space Crew's Wastes into Biofuel Using Thermophiles	Jia	Wang	South Dakota School of Mines and Technology
6ft	Next-Generation Bioengineering and Biodesign	Wen	Wang	Massachusetts Institute of Technology
6ip	Colloids with Valence: Design, Fabrication, and Directed Self-Assembly	Yufeng	Wang	Massachusetts Institute of Technology
6cr	Leveraging Supramolecular Interactions for Therapeutics	Matthew	Webber	
6ig	Integrated Simulation Methods for Protein-Nanoparticle (NP) Interactions with Complex Surface/Solvent Environments	Shuai	Wei	University of Michigan
6jp	Colloid and Nanoparticle Growth and Assembly Dynamics for Materials Design and Molecular Analogues	Taylor J.	Woehl	National Institute of Standards and Technology
6bk	Enabling Technologies for High-Throughput Synthetic Biology and Metabolic Engineering: From Engineering Genomes and Pathways to Genetic Circuits	Lauren B. A.	Woodruff	Broad Institute of MIT and Harvard
6ce	Modeling the Impact of Bubbling Bed Hydrodynamic Oscillations on the Yield of Biomass Fast Pyrolysis Oil	Qingang	Xiong	Oak Ridge National Laboratory
6az	Engineering Cell Metabolism for Better Health, Safe Environment and Efficient Fuels	Peng	Xu	MIT
6eq	Efficient Accumulation of Carbohydrate in Microalgae and It's Utilization	Jingliang	Xu	Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences
6gg	Towards Accurate and Fast Discovery of Compound Materials As Catalysts: Lessons Learned from Oxides	Zhongnan	Xu	Carnegie Mellon University
6bi	Engineering of the Corneal Epithelium	Bernardo	Yáñez Soto	
6br	A Systems Biology Definition of the Core Proteome of Metabolism and Expression	Laurence	Yang	University of California, San Diego
6cb	Bottom-up Design of Nanostructured Thermoelectric Materials from Solution Phase Synthesized Nanowires, Nanocrystals and Heterostructures	Haoran	Yang	
6cf	Interface Engineering for Sustainability and Health Care	Rong	Yang	Harvard Medical School
6h	Discovering Novel Catalysts for Production of Renewable Energy and Fuels	Xiaofang	Yang	Princeton University
6dc	Accelerating the Development of Green Technologies for Chemical Production through Multiscale Life-Cycle Technology Assessment	Yuan	Yao	Northwestern University
6ao	Control and Manipulation of Molecular Interactions for Nanobiotechnology, Energy, and Biopharmaceutical Applications: Control of Self-Assembly in Micro- and Nano-Scale Systems	Nima	Yazdan Panah	Massachusetts Institute of Technology
6ec	Development of Next Generation of Energy-Efficient Separation Technologies through Advanced Tunable Materials	Shouliang	Yi	Georgia Institute of Technology
6m	Carbon Materials As High-Efficiency and Metal-Free Catalyst for the Synthesis of Cyclic Carbonates from CO2 and Epoxides	Shuangfeng	Yin	Hunan University

6hi	Pathway Engineering in Yeast: Overcoming Challenges in Design and Optimization By Scaling and Parallelizing Elements of the Design-Build-Test-Learn Cycle	Eric M.	Young	Massachusetts Institute of Technology
6jo	Layered Double Hydroxides as Anion Intercalation Electrodes for Battery-Inspired Water Desalination	Matthias J.	Young	University of Colorado
6jn	Dynamic Properties of Interfaces in Soft Matter: Synthesis and New Characterization Techniques	Jing	Yu	University of Chicago
6aa	Application of New Explicit Correlation and Neural Network-Based Models for an Efficient Prediction of Natural Gas Compressibility Factor	Mohammad Mehdi	Zarei	Khazar University
6eh	Towards the Computational Design of Monolayer (Hydroxy)Oxide-Metal Bifunctional Catalysts	Zhenhua	Zeng	Purdue University
6ek	Design and Synthesis of Functional Polymers for Industrial, Environmental and Energy Applications	Hasan	Zerze	Lehigh University
6at	Simple, Novel and Applicable Strategies for Innovative Medical Solutions	Shiyi	Zhang	
6jc	Development of a Versatile Drop-based High-Throughput Single-Cell/Molecule Study platform	Huidan	Zhang	Harvard University
6gb	Metal-Organic Framework (MOF) Thin Films for Functional Materials Enabled By Atomic Layer Deposition	Junjie	Zhao	North Carolina State University
6fl	Exploring Structure-Function Correlations of Nanomaterials in Energy Conversion and Storage	Weiqing	Zheng	University of Delaware
6ic	Nano-Structured Catalysts for Clean Fuels and Chemicals: Directing Activity and Selectivity By Design	Branko	Zugic	Harvard University