

ACS Spring 2024 Sci-Mix Presentations - March 18, 2024, 8-10 PM CT

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AGFD

All-natural healthy power aid drinks from specialty crops rich by antioxidants, essential oils, and terpenes

(3982129)

DIVISION: AGFD

Presenter(s): Ludan Osman

Location: Hall C (Ernest N. Morial Convention Center)

Analysis of heavy metals in dark chocolate

(3995302)

DIVISION: AGFD

Presenter(s): Victoria Pipinich | Raymond C Dudek

Location: Hall C (Ernest N. Morial Convention Center)

Categorization of organic compounds in agricultural soils

(3991897)

DIVISION: AGFD

Presenter(s): Noah Reilly

Location: Hall C (Ernest N. Morial Convention Center)

Characterization of purple star apple (*Chrysophyllum cainito* L.) as a promising functional food

(3995374)

DIVISION: AGFD

Presenter(s): Gabriela Rubi Rubi Tapia-Alvarez

Location: Hall C (Ernest N. Morial Convention Center)

Comprehensive comparison of the dynamics of kombucha fermentation in a silicone bag and a glass jar

(3989108)

DIVISION: AGFD

Presenter(s): Kortnie Chamberlain

Location: Hall C (Ernest N. Morial Convention Center)

Comprehensive metabolomic profiling for elderberries (*Sambucus* spp.) in uncovering bioactive compounds

(3992544)

DIVISION: AGFD

Presenter(s): Nadia Bostick

Location: Hall C (Ernest N. Morial Convention Center)

Creating a glucometer-based device to observe the ripening of Aronia mitschurinii

(3992582)

DIVISION: AGFD

Presenter(s): Ryan Buzzetto

Location: Hall C (Ernest N. Morial Convention Center)

Determination of xanthophyll carotenoid content in vegetables recommended for macular degeneration prevention through high performance liquid chromatography and heat exposure

(3994158)

DIVISION: AGFD

Presenter(s): Madison Tarrance

Location: Hall C (Ernest N. Morial Convention Center)

Developing an Ochratoxin A nanoaptasensing screening system with a plasmonic platform

(3988380)

DIVISION: AGFD

Presenter(s): Andr e;s Fabi n

Location: Hall C (Ernest N. Morial Convention Center)

Development of a high-performance thin layer chromatography (HPTLC) method for the qualification and quantification of soya saponin compounds

(3991521)

DIVISION: AGFD

Presenter(s): G nesis Chavarria

Location: Hall C (Ernest N. Morial Convention Center)

Dr. Pepper Vanillin Flavor Compound determination and analysis using SPME and Headspace Analysis

(3994207)

DIVISION: AGFD

Presenter(s): Madison Tarrance

Location: Hall C (Ernest N. Morial Convention Center)

Effects of betulin derivatives from birch and sycamore bark on Drosophila melanogaster

(3992824)

DIVISION: AGFD

Presenter(s): Faith Davies

Location: Hall C (Ernest N. Morial Convention Center)

Effects of ethylene exposure on Hass avocados (*Persea americana*) during ripening in the presence of Cavendish bananas (*Musa acuminata*) over a five-day period

(3979232)

DIVISION: AGFD

Presenter(s): Andrew Gao

Location: Hall C (Ernest N. Morial Convention Center)

Evaluating chemical catalysts' thermal and kinetic effects on starch gelatinization

(3995577)

DIVISION: AGFD

Presenter(s): Saeed Dupree

Location: Hall C (Ernest N. Morial Convention Center)

Exploring flavors of edible ants: A path to sustainable gastronomy and consumer acceptance

(3986622)

DIVISION: AGFD

Presenter(s): Selene Alvarado Martinez | Changqi Liu

Location: Hall C (Ernest N. Morial Convention Center)

Genetically-encoded nanoparticles for siRNA-mediated crop genetic engineering

(3982005)

DIVISION: AGFD

Presenter(s): Virginia H Pistilli

Location: Hall C (Ernest N. Morial Convention Center)

Increasing desirable aroma compounds in Pennsylvania wines by treating post-harvest grapes with elemental sulfur

(3996051)

DIVISION: AGFD

Presenter(s): Jacob John Messner

Location: Hall C (Ernest N. Morial Convention Center)

Investigating the impact of sugar source variation on kombucha fermentation

(3989148)

DIVISION: AGFD

Presenter(s): Ian Loscher

Location: Hall C (Ernest N. Morial Convention Center)

Molecular cloning of bacterial exopolysaccharide forming enzymes in sugarcane processing and biological and agricultural impacts

(3993842)

DIVISION: AGFD

Presenter(s): Jack Fein | Evan Terrell

Location: Hall C (Ernest N. Morial Convention Center)

Semi critical CO₂-ethanol assisted extraction of photoinduced bioactive pigments from seaweed algae: Advances in renewable dyes production for food supplements and pharmacy applications

(3990136)

DIVISION: AGFD

Presenter(s): Angelo Chatmon

Location: Hall C (Ernest N. Morial Convention Center)

Sustainable formulation solutions for dsRNA-based biopesticides for next-gen agricultural pest control

(3997111)

DIVISION: AGFD

Presenter(s): Sargun Malik | Anil Kumar | Jacob Shoemake

Location: Hall C (Ernest N. Morial Convention Center)

Understanding the flavors and aromas in wine and beer

(3993895)

DIVISION: AGFD

Presenter(s): Brian Bartholomew

Location: Hall C (Ernest N. Morial Convention Center)

Unraveling the health implications of modified sucralose

(3992218)

DIVISION: AGFD

Presenter(s): Isabella Beasley

Location: Hall C (Ernest N. Morial Convention Center)

ANYL

3D-printed cone spray ionization: material optimization and automation ruggedization

(3997778)

DIVISION: ANYL

Presenter(s): T.J. Pinedo

Location: Hall C (Ernest N. Morial Convention Center)

Assessing variation of bioactive alkaloids in commercially available kratom products

(3992856)

DIVISION: ANYL

Presenter(s): Anna J Shuey

Location: Hall C (Ernest N. Morial Convention Center)

Comprehensive Two-Dimensional Gas Chromatography reveals the volatile compounds present in a biparental sweetpotato mapping population

(3991514)

DIVISION: ANYL

Presenter(s): Modesta Abugu

Location: Hall C (Ernest N. Morial Convention Center)

Determination of anion gap (AG) using pulsed chronopotentiometry

(3997325)

DIVISION: ANYL

Presenter(s): Olivia Neal

Location: Hall C (Ernest N. Morial Convention Center)

Determination of Dipole Moments of Nanoparticles Utilizing Dielectrophoresis

(4025139)

DIVISION: ANYL

Presenter(s): A K M Fazlul Karim Rasel

Location: Hall C (Ernest N. Morial Convention Center)

Determination of the binding capacity of anionic nutrients to Mars Regolith Simulants from Freundlich and Langmuir Adsorption Isotherms

(3995463)

DIVISION: ANYL

Presenter(s): Sydney Panczak

Location: Hall C (Ernest N. Morial Convention Center)

Development of C-H hydrogen bond based anion sensors

(3992591)

DIVISION: ANYL

Presenter(s): Rayhanus Salam

Location: Hall C (Ernest N. Morial Convention Center)

Elucidating the transport mechanisms of Hnqo1-responsive fluorescent small molecular probes in human multicellular tumor spheroid mimics

(3990677)

DIVISION: ANYL

Presenter(s): Shibalik Mukherjee

Location: Hall C (Ernest N. Morial Convention Center)

Evaluation of electrode geometries for portable trapped ion mobility spectrometry

(3994130)

DIVISION: ANYL

Presenter(s): Riley Patterson

Location: Hall C (Ernest N. Morial Convention Center)

Fabrication of plasmonic nanopipettes for tip-enhanced Raman spectroscopy in scanning ion conductance microscopy technique

(3993899)

DIVISION: ANYL

Presenter(s): Abu Montakim Tareq

Location: Hall C (Ernest N. Morial Convention Center)

Fast-scan cyclic voltammetry with principal component regression analysis selectively resolves dopamine-methylenedioxypyrovalerone (bath salts) mixture in vitro

(3986176)

DIVISION: ANYL

Presenter(s): Benjamin Sterling Succop

Location: Hall C (Ernest N. Morial Convention Center)

Handheld Van de Graff generators for surface analyte capture and sample ionization

(3990005)

DIVISION: ANYL

Presenter(s): Paige Hunt

Location: Hall C (Ernest N. Morial Convention Center)

Identification and quantification of sonicated sodium dodecyl sulfate products in single-walled carbon nanotube suspension by gas chromatography

(3990727)

DIVISION: ANYL

Presenter(s): Kevin Charles Tvrdy

Location: Hall C (Ernest N. Morial Convention Center)

Investigating secondary structure variation of tau aggregates in Alzheimer's disease with infrared spectroscopic imaging

(3995970)

DIVISION: ANYL

Presenter(s): Brodie William James Frew

Location: Hall C (Ernest N. Morial Convention Center)

Multifunctional PVA/cellulose hydrogels with long-term environmental adaptability and mechanical durability for strain sensors and triboelectric nanogenerators

(3995731)

DIVISION: ANYL

Presenter(s): Wang Yaquan

Location: Hall C (Ernest N. Morial Convention Center)

Paper-based microfluidic devices from hydrophobic ionic liquids

(3997295)

DIVISION: ANYL

Presenter(s): Charles Kuedukey | David Bwambok

Location: Hall C (Ernest N. Morial Convention Center)

Pulsed electrospray ionization kinetics

(3996609)

DIVISION: ANYL

Presenter(s): Landon Vyhmeister

Location: Hall C (Ernest N. Morial Convention Center)

Radiation-tolerant solid-contact electrodes for potentiometry in sterile environments

(3985936)

DIVISION: ANYL

Presenter(s): Bingyuan Zhao

Location: Hall C (Ernest N. Morial Convention Center)

Recovery of urea with reduced graphene oxide-MoS₂ composite membranes

(3992703)

DIVISION: ANYL

Presenter(s): Kathryn Marsh

Location: Hall C (Ernest N. Morial Convention Center)

Stepped stand-alone Fourier transform ion mobility spectrometry

(3995905)

DIVISION: ANYL

Presenter(s): Saned Gharari

Location: Hall C (Ernest N. Morial Convention Center)

Using low-cost sample preparation and surface-enhanced Raman spectroscopy to identify bacteria

(3997234)

DIVISION: ANYL

Presenter(s): Christopher Flores Kaled
Location: Hall C (Ernest N. Morial Convention Center)

Visualization of cancer cells with precision: An Hnqo1 responsive near-infrared fluorescent probe

(3990675)
DIVISION: ANYL
Presenter(s): Stephy Jomy
Location: Hall C (Ernest N. Morial Convention Center)

Waste to Use: Utilization of the waste zeolite from catalysis industry for membrane-supported micro solid phase extraction of pesticide residues in wastewater using Gas chromatography-mass spectrometry

(3989537)
DIVISION: ANYL
Presenter(s): Shaima Ibrahim Alsabbahen
Location: Hall C (Ernest N. Morial Convention Center)

What happened to the yellow Skittles? Bringing big data into the quantitative analysis lab

(3995262)
DIVISION: ANYL
Presenter(s): Paul R Alderson
Location: Hall C (Ernest N. Morial Convention Center)

Zinc tetrapyrrole coordinated to imidazole functionalized Tetracyanobutadiene or cyclohexa-2,5-diene-1,4-diylidene-expanded-Tetracyanobutadiene conjugates: Dark vs. light-induced electron transfer

(3994323)
DIVISION: ANYL
Presenter(s): Manan Guragain
Location: Hall C (Ernest N. Morial Convention Center)

BIOL

Advancing disease detection in biological systems: Harnessing click chemistry for innovative fluorescent probes

(3993452)
DIVISION: BIOL
Presenter(s): Eva-Maria Rudler
Location: Hall C (Ernest N. Morial Convention Center)

Assignment of the S-C stretching vibration in the Raman spectrum of S-adenosyl-l-methionine and its application as a sub-molecular sensor of interactions to the reactive methyl group when bound to an enzymic active site

(3993871)

DIVISION: BIOL

Presenter(s): Allison L Stelling

Location: Hall C (Ernest N. Morial Convention Center)

Biophysical investigation in the nitric oxide sensing protein in *Pseudomonas aeruginosa*

(3995575)

DIVISION: BIOL

Presenter(s): Lily Cam

Location: Hall C (Ernest N. Morial Convention Center)

Chemical protein synthesis for investigating Alzheimer's disease: The effect of N-glycosylation on tau phase transitions

(3976878)

DIVISION: BIOL

Presenter(s): Wyatt Powell

Location: Hall C (Ernest N. Morial Convention Center)

Chemoenzymatic synthesis of novel nucleotides for antibiotic discovery

(3977067)

DIVISION: BIOL

Presenter(s): Su Ilayda Ozcan

Location: Virtual Session (Virtual Only)

Co-aggregation as an exceptionally simple platform for preparing fluorogenic tetrazine probes with on-demand fluorogen selection

(3986473)

DIVISION: BIOL

Presenter(s): Shinsuke Segawa

Location: Hall C (Ernest N. Morial Convention Center)

Computational-guided genome mining for new natural products

(3997272)

DIVISION: BIOL

Presenter(s): Abner Danao Abad

Location: Hall C (Ernest N. Morial Convention Center)

Cyclic peptides from a genetically-encoded phage-display library target the SARS-CoV-2 programmed ribosomal frameshifting RNA

(3980986)

DIVISION: BIOL

Presenter(s): Andrew Hong

Location: Hall C (Ernest N. Morial Convention Center)

Design, synthesis, and biological evaluation of novel mitochondria-targeting exosomes

(3994526)

DIVISION: BIOL

Presenter(s): Lanrong Bi

Location: Hall C (Ernest N. Morial Convention Center)

Designing membraneless organelles: Mimicking the carboxysome

(3979804)

DIVISION: BIOL

Presenter(s): Abesh Banerjee

Location: Hall C (Ernest N. Morial Convention Center)

Development of a chemotranscriptomic pipeline for RNA-targeted ligand discovery

(3994775)

DIVISION: BIOL

Presenter(s): Jose A Reyes Franceschi

Location: Hall C (Ernest N. Morial Convention Center)

Discovery of small molecule-mediated protein degradation pathways

(3986837)

DIVISION: BIOL

Presenter(s): Isabella Riha

Location: Hall C (Ernest N. Morial Convention Center)

DNA Display a CRISPR-enabled display technology method for rapid in vitro nanobody development

(3980063)

DIVISION: BIOL

Presenter(s): Enrico Calore

Location: Hall C (Ernest N. Morial Convention Center)

Effects of glutathione on the labile iron pool

(3997895)

DIVISION: BIOL

Presenter(s): Cade Nordhagen

Location: Hall C (Ernest N. Morial Convention Center)

Enabling site selective lysine modification on antibodies

(3983347)

DIVISION: BIOL

Presenter(s): Ioanna Aikaterini Aikaterini Thanasi

Location: Hall C (Ernest N. Morial Convention Center)

Evidence for acid-base catalysis and substrate-dependent metal ion activation by coronavirus Nsp15 endonuclease

(3987651)

DIVISION: BIOL

Presenter(s): Nidhi Kalia

Location: Hall C (Ernest N. Morial Convention Center)

Examining the allosteric mechanism of NAMPT for targeted drug discovery

(3989316)

DIVISION: BIOL

Presenter(s): Jenna Courey

Location: Hall C (Ernest N. Morial Convention Center)

Fluorescein-based fluorogenic chemical tools to shed light on ester drug metabolism in live cells

(3990611)

DIVISION: BIOL

Presenter(s): Carolyn Karns

Location: Hall C (Ernest N. Morial Convention Center)

From Alzheimer's amyloid to the rippled beta-sheet

(3991291)

DIVISION: BIOL

Presenter(s): Jevgenij Raskatov

Location: Hall C (Ernest N. Morial Convention Center)

High-throughput analysis of twister ribozymes

(3986717)

DIVISION: BIOL

Presenter(s): Lauren McKinley

Location: Hall C (Ernest N. Morial Convention Center)

Illuminating variations in drug metabolism with fluorogenic chemical tools

(3979394)

DIVISION: BIOL

Presenter(s): Michael W Beck

Location: Hall C (Ernest N. Morial Convention Center)

Investigating the effects of molecular crowding on enzyme substrate-binding using isothermal titration calorimetry

(3986104)

DIVISION: BIOL

Presenter(s): Sanchita Hati

Location: Hall C (Ernest N. Morial Convention Center)

Paradoxical regulation of cellular redox homeostasis by hydropersulfides and hydropolysulfides via Cystathionine γ -lyase phosphorylation

(3997071)

DIVISION: BIOL

Presenter(s): Cameron R. Cason

Location: Hall C (Ernest N. Morial Convention Center)

Rethinking oligonucleotides in a P(V) world

(3990129)

DIVISION: BIOL

Presenter(s): Phil S Baran

Location: Virtual Session (Virtual Only)

Role of the NosP associated histidine kinase NahK in nitric oxide-stress resistance in *Pseudomonas aeruginosa*

(3993044)

DIVISION: BIOL

Presenter(s): Sweta Anantharaman

Location: Hall C (Ernest N. Morial Convention Center)

Sensitive fluorescent biosensor reveals differential subcellular regulation of PKC

(3984101)

DIVISION: BIOL

Presenter(s): Qi Su

Location: Hall C (Ernest N. Morial Convention Center)

Site-selective modification of antibodies using Pyridazinediones (PDs)

(3989985)

DIVISION: BIOL

Presenter(s): Clíona McMahon

Location: Hall C (Ernest N. Morial Convention Center)

Stable analogues of a reactive bacterial metabolite as tools for studying immunity

(3996783)

DIVISION: BIOL

Presenter(s): Jeffrey Y. W. Mak
Location: Hall C (Ernest N. Morial Convention Center)

Synthesis of hyper-oxidized NAD derivatives

(3997636)
DIVISION: BIOL

Presenter(s): Juanita Monteiro-Pai
Location: Hall C (Ernest N. Morial Convention Center)

Toward cell-based protein tyrosine phosphatase activity assays

(3978120)
DIVISION: BIOL

Presenter(s): Haoyu Sun
Location: Hall C (Ernest N. Morial Convention Center)

Transcriptomic analyses of multiple antibiotic adjuvants against MRSA

(3994428)
DIVISION: BIOL

Presenter(s): Robin Stempel
Location: Hall C (Ernest N. Morial Convention Center)

Using tyrosine reactive SuTEx ligands to induce Glutathione S-Transferase Pi (GSTP1-1) mediated protein-protein interactions

(3988976)
DIVISION: BIOL

Presenter(s): David Leace
Location: Hall C (Ernest N. Morial Convention Center)

Utilizing native and mutant phycoerythrobilin-binding proteins as florescent zinc sensors

(3994807)
DIVISION: BIOL

Presenter(s): Gary C Jensen
Location: Hall C (Ernest N. Morial Convention Center)

Writing the rulebook on RNA-small molecule interactions for drug discovery

(3990283)
DIVISION: BIOL

Presenter(s): Tim Eric Harry Allen
Location: Hall C (Ernest N. Morial Convention Center)

BIOT

Achieving charge variant profile of innovator molecule during the development of monoclonal antibody based biosimilars: use of media components

(3983884)

DIVISION: BIOT

Presenter(s): Neelesh Gangwar

Location: Hall C (Ernest N. Morial Convention Center)

Advanced characterization of soluble and insoluble biological particles for mammalian cell culture clarification operations

(3994184)

DIVISION: BIOT

Presenter(s): Noelle Olson

Location: Hall C (Ernest N. Morial Convention Center)

Anion-exchange chromatography separation of AAV empty and full capsids using non-toxic choline-type salts

(3990250)

DIVISION: BIOT

Presenter(s): Jukka Kervinen

Location: Hall C (Ernest N. Morial Convention Center)

Application of single-pass tangential flow filtration to streamline a conjugate vaccine process

(3988689)

DIVISION: BIOT

Presenter(s): Henry Ludwicki

Location: Hall C (Ernest N. Morial Convention Center)

Building an understanding of the cell culture process for host cell protein (HCP) expression and control through clone-to-clone comparison

(3995606)

DIVISION: BIOT

Presenter(s): Ansuman Sahoo

Location: Hall C (Ernest N. Morial Convention Center)

Click display: A rapid and efficient in vitro protein engineering display method for directed evolution

(3979345)

DIVISION: BIOT

Presenter(s): Michael Woolley

Location: Hall C (Ernest N. Morial Convention Center)

Combination non-targeted and targeted nanoparticle drug delivery synergistically outperforms either component in treatment of metastatic ovarian cancer

(3983657)

DIVISION: BIOT

Presenter(s): Emily Bromley

Location: Hall C (Ernest N. Morial Convention Center)

CRISPR Cas9 targeted genome-wide mutagenesis for the discovery of non-obvious acetate tolerance genes in *Yarrowia lipolytica*

(3987965)

DIVISION: BIOT

Presenter(s): Nick R Robertson

Location: Hall C (Ernest N. Morial Convention Center)

Cys delivery impacts on mammalian cell culture

(3991413)

DIVISION: BIOT

Presenter(s): Yang Wu

Location: Hall C (Ernest N. Morial Convention Center)

De-risking biomanufacturing through host cell protein (HCP) removal using peptides as ligands

(3979384)

DIVISION: BIOT

Presenter(s): Sobhana Sripada

Location: Hall C (Ernest N. Morial Convention Center)

Design of amphiphilic polypeptoid - lipid nanoparticles as nanocarriers for therapeutic applications

(3994505)

DIVISION: BIOT

Presenter(s): Pedram AziziHariri

Location: Hall C (Ernest N. Morial Convention Center)

Development of a process toolbox to modulate afucosylation of antibodies

(3979538)

DIVISION: BIOT

Presenter(s): Jared Lynn Dopp

Location: Hall C (Ernest N. Morial Convention Center)

Development of lyophilized dosage forms to achieve stability of monoclonal IgM antibodies

(3993775)

DIVISION: BIOT

Presenter(s): Christopher Mensch

Location: Hall C (Ernest N. Morial Convention Center)

Development of robust and non-destructive benchtop qNMR methods for the quantification of excipients in biologics formulations

(3980566)

DIVISION: BIOT

Presenter(s): Ciaran Christopher Lynch

Location: Hall C (Ernest N. Morial Convention Center)

Engineering custom, precise, ligand-dependent cellular control

(3996433)

DIVISION: BIOT

Presenter(s): Samuel Swift

Location: Hall C (Ernest N. Morial Convention Center)

Enhanced antibiotic delivery using Escherichia coli outer membrane vesicles as a novel delivery platform

(3986638)

DIVISION: BIOT

Presenter(s): Meishan Wu

Location: Hall C (Ernest N. Morial Convention Center)

Exploring strategy for affinity based purification of bispecific antibodies to address homodimers separation challenge

(3995556)

DIVISION: BIOT

Presenter(s): Catherine Teo

Location: Hall C (Ernest N. Morial Convention Center)

Flow distribution and scalability of depth filter capsules

(3975338)

DIVISION: BIOT

Presenter(s): Nicholas Marchand

Location: Hall C (Ernest N. Morial Convention Center)

Formation of enzyme-surfactant nanoconjugates for non-aqueous production of alkene biofuels from triglycerides

(3986345)

DIVISION: BIOT

Presenter(s): Jake Nicholson

Location: Hall C (Ernest N. Morial Convention Center)

From Poster to Pipeline to Product: Innovating within an established company

(3993571)

DIVISION: BIOT

Presenter(s): Joseph Basconi

Location: Hall C (Ernest N. Morial Convention Center)

Gene Therapy Adeno-Associated viral (AAV) vectors isolation and enrichment through Peptide-based discovery

(3997098)

DIVISION: BIOT

Presenter(s): Arianna Minzoni

Location: Hall C (Ernest N. Morial Convention Center)

High-throughput platform for optimizing mRNA production through in vitro transcription

(3996145)

DIVISION: BIOT

Presenter(s): Daniel Yur

Location: Hall C (Ernest N. Morial Convention Center)

High-throughput viral inactivation screening using Retrovirus-like particles

(3996099)

DIVISION: BIOT

Presenter(s): Daniel Cetnar

Location: Hall C (Ernest N. Morial Convention Center)

Identification and control of growth inhibitory metabolic products in Human Embryonic Kidney 293 cell fed-batch cultures

(3997651)

DIVISION: BIOT

Presenter(s): Cameron Harrington

Location: Hall C (Ernest N. Morial Convention Center)

Impact of light exposure on topoisomerase I inhibitor antibody-drug conjugate stability

(3983135)

DIVISION: BIOT

Presenter(s): Nathan Sandler

Location: Hall C (Ernest N. Morial Convention Center)

Implementation of membrane chromatography step using a novel ligand chemistry for clearance of associated host cell proteins

(3991801)

DIVISION: BIOT

Presenter(s): Anindita Das

Location: Hall C (Ernest N. Morial Convention Center)

Innovative mixed mode resin for efficient purification of complex antibody formats: Impurity removal and high purity bispecific antibody recovery

(3988292)

DIVISION: BIOT

Presenter(s): Annika Holzgreve

Location: Hall C (Ernest N. Morial Convention Center)

In-silico purification developability assessment for monoclonal antibodies

(3990420)

DIVISION: BIOT

Presenter(s): Minjeong Cha

Location: Hall C (Ernest N. Morial Convention Center)

Intensified single-step, flowthrough polishing process: A closer look at aggregate and mock virus removal with Capto adhere

(3994811)

DIVISION: BIOT

Presenter(s): Christina Caporale

Location: Hall C (Ernest N. Morial Convention Center)

Investigating carbohydrate utilization in Anaerocellum besicii for sustainable biofuels production

(3991974)

DIVISION: BIOT

Presenter(s): Hansen Tjo

Location: Hall C (Ernest N. Morial Convention Center)

Machine learning-enhanced optimization of a multi-step ion exchange chromatography for ternary protein separation

(3979549)

DIVISION: BIOT

Presenter(s): Chaoying Ding

Location: Hall C (Ernest N. Morial Convention Center)

Metabolite regulated CRISPR activation for dynamic transcriptional control

(3983133)

DIVISION: BIOT

Presenter(s): Anthony M. Stohr

Location: Hall C (Ernest N. Morial Convention Center)

Mitigation of particulate formation in downstream purification for an intensified monoclonal antibody process

(3976165)

DIVISION: BIOT

Presenter(s): Zheyuan Luo

Location: Hall C (Ernest N. Morial Convention Center)

Optimized SEC-MALS analysis of AAV gene therapy vectors: Leveraging a 20-angle MALS detector and compliant software for precise characterization of capsid particles

(3994650)

DIVISION: BIOT

Presenter(s): Derek Lohmann

Location: Hall C (Ernest N. Morial Convention Center)

Plasmid DNA purification optimized with mechanistic modeling

(3993129)

DIVISION: BIOT

Presenter(s): Patricia Roch

Location: Hall C (Ernest N. Morial Convention Center)

Process development methodology to assess a new drug substance container: Freezing and thawing small scale model considerations and effect of CO2 ingress during shipping

(3977952)

DIVISION: BIOT

Presenter(s): Yanhong Feng

Location: Hall C (Ernest N. Morial Convention Center)

Protein engineering and structural insights into a hydrolase from Microbacterium hydrocarbonoxydans for its applications in anti-viral drug synthesis

(4001645)

DIVISION: BIOT

Presenter(s): Shuaihua Gao

Location: Hall C (Ernest N. Morial Convention Center)

Pure dUTP-mediated LAMP assay coupled with CRISPR/Cas12a system for contamination-free and ultrasensitive DNA detection

(3990912)

DIVISION: BIOT

Presenter(s): Yi Xie

Location: Hall C (Ernest N. Morial Convention Center)

Purification of a monoclonal antibody using a novel high-capacity multimodal cation exchange nonwoven membrane

(3988261)

DIVISION: BIOT

Presenter(s): Jinxin Fan

Location: Hall C (Ernest N. Morial Convention Center)

Qualification of a high-throughput scale down model and its application for process characterization of UFDF operation

(3981783)

DIVISION: BIOT

Presenter(s): Jakub Legocki

Location: Hall C (Ernest N. Morial Convention Center)

Refolding and Purification of unstable biotherapeutics: L-asparaginase as a case study

(3993113)

DIVISION: BIOT

Presenter(s): Nitika Nitika

Location: Hall C (Ernest N. Morial Convention Center)

Simplified process development for single-pass TFF

(3994499)

DIVISION: BIOT

Presenter(s): Christina Caporale

Location: Hall C (Ernest N. Morial Convention Center)

Structural and mechanistic understanding of Glucagon-like peptide 1 agonists, Semaglutide and Liraglutide, in solution formulations

(3992749)

DIVISION: BIOT

Presenter(s): Ekaterina M Stroeva

Location: Hall C (Ernest N. Morial Convention Center)

Tangential flow filtration device flow patterns enhance T-cell transduction for CAR T-cell manufacturing

(3982675)

DIVISION: BIOT

Presenter(s): Eric Slaughter

Location: Hall C (Ernest N. Morial Convention Center)

Targeted delivery of antibiotics to treat infections associated with Gram-negative bacteria using a toxin-triggered liposomal system

(3983089)

DIVISION: BIOT

Presenter(s): Ziang Li

Location: Hall C (Ernest N. Morial Convention Center)

Technical feasibility of changing cell line post phase 1 clinical manufacturing

(4005289)

DIVISION: BIOT

Presenter(s): Amritha Menon

Location: Hall C (Ernest N. Morial Convention Center)

Two-step protocol for the large scale purification of AAV based on cation exchange and capto core 400 chromatography

(3979115)

DIVISION: BIOT

Presenter(s): Troy Rogerson

Location: Hall C (Ernest N. Morial Convention Center)

Versatile, rapid, and trackable NIR light-triggered drug release from polymeric nanoparticles using a photo-cleavable prodrug platform approach

(3995010)

DIVISION: BIOT

Presenter(s): Amy Moreno

Location: Hall C (Ernest N. Morial Convention Center)

CARB

Assessing the performance of atomistic force fields in modeling glycogen in aqueous environments

(3997005)

DIVISION: CARB

Presenter(s): Parisa Farzeen

Location: Hall C (Ernest N. Morial Convention Center)

Borrelia burgdorferi peptidoglycan contains novel stem peptide linkages

(3989775)

DIVISION: CARB

Presenter(s): David Harris

Location: Hall C (Ernest N. Morial Convention Center)

Carboxylic acid derivatization for improved O-glycopeptide identification by mass spectrometry

(4001036)

DIVISION: CARB

Presenter(s): Deniz Ince

Location: Hall C (Ernest N. Morial Convention Center)

Evaluation of design parameters for monosaccharide probes used in the metabolic labeling of bacterial glycans

(3992331)

DIVISION: CARB

Presenter(s): Danielle H Dube

Location: Hall C (Ernest N. Morial Convention Center)

Fluorescent sugar analogs as probes for bacterial monosaccharide uptake

(3992312)

DIVISION: CARB

Presenter(s): Danielle H Dube

Location: Hall C (Ernest N. Morial Convention Center)

Helicobacter pylori glycan biosynthesis modulates host immune cell recognition and response

(3992325)

DIVISION: CARB

Presenter(s): Danielle H Dube

Location: Hall C (Ernest N. Morial Convention Center)

Inhibiting norovirus infections via modular hyperbranched polymers with terminal glycan moieties

(3994334)

DIVISION: CARB

Presenter(s): Jonathan Mase

Location: Hall C (Ernest N. Morial Convention Center)

O-Naphthyl glycosides act as metabolic inhibitors of Helicobacter pylori protein glycosylation

(3992515)

DIVISION: CARB

Presenter(s): Danielle H Dube

Location: Hall C (Ernest N. Morial Convention Center)

Precision glycopolymers for tunable galectin-3 inhibition

(3996507)

DIVISION: CARB

Presenter(s): Daniel Stone

Location: Hall C (Ernest N. Morial Convention Center)

Probes for studying carbohydrate - carbohydrate interactions: Synthesis of glycitol-based glycoconjugates using the thiol-ene click reaction

(3988331)

DIVISION: CARB

Presenter(s): Sebastian Rueda

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis and characterization of trehalose-biotin conjugates as tools for the detection of mycobacteria

(3991319)

DIVISION: CARB

Presenter(s): Emily Maskill

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis of heparan sulfate mimetics incorporating iduronic acid for viral targeting

(4003486)

DIVISION: CARB

Presenter(s): Susannah Armstrong

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis of matriglycan mimetics for targeting Lassa virus

(4003482)

DIVISION: CARB

Presenter(s): Meaghan Cadieux | Italy Ramos

Location: Hall C (Ernest N. Morial Convention Center)

Synthetic development of carbohydrate phthalocyanine conjugates as new tools for addressing disease

(4003480)

DIVISION: CARB

Presenter(s): Marcello Munoz | Lucy Clayton

Location: Hall C (Ernest N. Morial Convention Center)

Systematic study of sialic acid-containing polymer properties for influenza inhibition

(3997506)

DIVISION: CARB

Presenter(s): Rachel Bianculli
Location: Hall C (Ernest N. Morial Convention Center)

Thioglycosides act as metabolic inhibitors of bacterial glycan biosynthesis

(3992343)

DIVISION: CARB

Presenter(s): Danielle H Dube
Location: Hall C (Ernest N. Morial Convention Center)

CATL

Biomass-derived catalytic architectures: Opportunities for mechanochemical extrusion

(3981691)

DIVISION: CATL

Presenter(s): Daily Rodriguez Padron
Location: Hall C (Ernest N. Morial Convention Center)

Carbon corrosion and other degradation mechanisms for CO₂ electrolyzers

(3990026)

DIVISION: CATL

Presenter(s): Mathew Rasmussen
Location: Hall C (Ernest N. Morial Convention Center)

Catalysts tolerant to SO₂ for electrified carbon capture and utilization

(3976676)

DIVISION: CATL

Presenter(s): Pengfei Ou
Location: Hall C (Ernest N. Morial Convention Center)

Cobalt and iron based core-shell catalysts for Fischer-Tropsch synthesis in a tubular reactor

(3995459)

DIVISION: CATL

Presenter(s): Meric Arslan
Location: Hall C (Ernest N. Morial Convention Center)

Cobalt nanoparticles supported on Isonicotinamide functionalized silica for selective hydrogenations

(3982449)

DIVISION: CATL

Presenter(s): Antonio Reina
Location: Hall C (Ernest N. Morial Convention Center)

Conversion of Methane to methanol over Ceria-ZSM-5 supported copper oxide catalysts

(3979015)

DIVISION: CATL

Presenter(s): Pranay Rajendra Chandewar

Location: Hall C (Ernest N. Morial Convention Center)

Data driven discovery of active single atom site: From carbon supported catalyst to high entropy alloys

(3992006)

DIVISION: CATL

Presenter(s): Bin Ouyang

Location: Hall C (Ernest N. Morial Convention Center)

Data-driven modeling and design of single-atom alloy catalysts for CO2 hydrogenation

(3990008)

DIVISION: CATL

Presenter(s): Raffaele Cheula

Location: Hall C (Ernest N. Morial Convention Center)

Dehydrogenative coupling of light alkanes to SAF-range hydrocarbons in a single reactor

(3989072)

DIVISION: CATL

Presenter(s): Alexander Hill

Location: Hall C (Ernest N. Morial Convention Center)

Design and development of novel 2D alloyed-Antimxenes for electrochemical applications

(3990171)

DIVISION: CATL

Presenter(s): Venkata Surya Kumar Choutipalli

Location: Hall C (Ernest N. Morial Convention Center)

Electrode surface heating with organic films improves CO2 electroreduction kinetics on copper

(3989253)

DIVISION: CATL

Presenter(s): Zachary Schiffer

Location: Hall C (Ernest N. Morial Convention Center)

Enhanced photocatalytic degradation of azo dyes using metal-doped TiO₂

(3991349)

DIVISION: CATL

Presenter(s): Sunith Madduri

Location: Hall C (Ernest N. Morial Convention Center)

Enhancing ethylene activation through substituted polyoxometalates enables electrified synthesis of ethylene glycol

(3982136)

DIVISION: CATL

Presenter(s): Jiaqi Yu

Location: Hall C (Ernest N. Morial Convention Center)

Enhancing photoreduction of CO₂ with ultra-low loading of Ag–Ni bimetallic centers anchored to hexagonal porous g-C₃N₄ nanostructure

(3992129)

DIVISION: CATL

Presenter(s): Fahim A Qaraah

Location: Hall C (Ernest N. Morial Convention Center)

Evaluation of propylene production from oxidative and non-oxidative dehydrogenation of propane using Mo-V mixed oxides

(3997250)

DIVISION: CATL

Presenter(s): Leticia Fernanda Rasteiro

Location: Hall C (Ernest N. Morial Convention Center)

Exploring the computational aspects of propylene oligomerization catalysis using Fe₂M type trimetallic MOF nodes

(3989156)

DIVISION: CATL

Presenter(s): Rishu Khurana

Location: Hall C (Ernest N. Morial Convention Center)

Facile liquid phase exfoliation of 2D BiOI for enhanced photoelectrocatalytic activity and durability

(3991764)

DIVISION: CATL

Presenter(s): Mengjiao Wang

Location: Hall C (Ernest N. Morial Convention Center)

Failure mechanism of gas diffusion electrode during electrochemical hydrogen peroxide production

(3979340)

DIVISION: CATL

Presenter(s): Erzhuo Zhao

Location: Hall C (Ernest N. Morial Convention Center)

Halite-structured high entropy oxide (HEO) for chemical looping–dry reforming of methane (CL–DRM)

(3990986)

DIVISION: CATL

Presenter(s): Yu Shao

Location: Hall C (Ernest N. Morial Convention Center)

Heck migratory insertion catalyzed by a single Pt atom site: Quantum mechanical prediction of reaction mechanism

(3996766)

DIVISION: CATL

Presenter(s): Bo Li

Location: Hall C (Ernest N. Morial Convention Center)

In-situ structures and reaction centers of layered Ni (oxy)hydroxide electrocatalysts with complex ion intercalation for oxygen evolution

(3992762)

DIVISION: CATL

Presenter(s): ZhenHua Zeng

Location: Hall C (Ernest N. Morial Convention Center)

Interrogating complex and dynamic interfaces during carbon-free H₂ production from methane conversion over MgO-supported catalysts

(3997373)

DIVISION: CATL

Presenter(s): Laura Alejandra Gomez

Location: Hall C (Ernest N. Morial Convention Center)

Investigating the role of water activity and gas composition in CO₂/CO reduction

(3992583)

DIVISION: CATL

Presenter(s): David Raciti

Location: Hall C (Ernest N. Morial Convention Center)

Mechanism, kinetics, and role of OH radicals in ultrasound-mediated aqueous glyoxal oxidation

(3981288)

DIVISION: CATL

Presenter(s): Ari Fischer

Location: Hall C (Ernest N. Morial Convention Center)

Mechanocatalytic depolymerization of poly(ethylene terephthalate): Rigorous characterization of a single collision

(3988776)

DIVISION: CATL

Presenter(s): Kinga Maria Golabek

Location: Hall C (Ernest N. Morial Convention Center)

Mechanochemical reduction of MoO₃ and application in the water-splitting

(3980076)

DIVISION: CATL

Presenter(s): Leticia Fernanda Rasteiro

Location: Hall C (Ernest N. Morial Convention Center)

Microwave-assisted co-gasification of mixed plastic and corn stover to produce clean H₂ using Fe oxide catalyst

(3986556)

DIVISION: CATL

Presenter(s): Ben Eston Gibens

Location: Hall C (Ernest N. Morial Convention Center)

Microwave-assisted syngas clean-up: catalytic reforming of gasifier Tar using low-cost iron catalyst

(3981109)

DIVISION: CATL

Presenter(s): Xinwei Bai

Location: Hall C (Ernest N. Morial Convention Center)

Molecular potentiometry of dispersed heterogeneous catalysts

(3974991)

DIVISION: CATL

Presenter(s): Neil Kanth Razdan

Location: Hall C (Ernest N. Morial Convention Center)

Periodic reactivity trends in methane activation on earth-abundant metal and alloy clusters

(3997763)

DIVISION: CATL

Presenter(s): Yinan Xu

Location: Hall C (Ernest N. Morial Convention Center)

Suppressing methanation in the water–gas shift reaction with Ni-substituted CeO₂ aerogels

(3981816)

DIVISION: CATL

Presenter(s): Austin Eric Herzog

Location: Hall C (Ernest N. Morial Convention Center)

Understanding the mechanism of Birch reduction in photoredox CO₂ utilization with organic catalysts

(3983440)

DIVISION: CATL

Presenter(s): Pallavi Sarkar

Location: Hall C (Ernest N. Morial Convention Center)

Unraveling fundamental activity: Stability relationships in rutile oxides

(3985591)

DIVISION: CATL

Presenter(s): Joseph Gauthier

Location: Hall C (Ernest N. Morial Convention Center)

Water-promoted Mars-van-Krevelen reaction dominates low-temperature CO oxidation over Au-Fe₂O₃, but not over Au-TiO₂

(3989784)

DIVISION: CATL

Presenter(s): Alexander Holm

Location: Hall C (Ernest N. Morial Convention Center)

CELL

3D printing of bone-like scaffold with agarose-chitosan based bioink and osteoblast cells for bioprinter feasibility verification

(3986100)

DIVISION: CELL

Presenter(s): Ali Mousavi

Location: Virtual Session (Virtual Only)

Advancing glycerol-derived solvents for lignin-first organosolv biorefining of lignocellulosic biomass

(3993816)

DIVISION: CELL

Presenter(s): James D. Sheehan

Location: Hall C (Ernest N. Morial Convention Center)

Arrested methanogenesis Technology for Sustainable Bioproducts and biofuels production from high-strength waste streams

(3996832)

DIVISION: CELL

Presenter(s): Meltem Urgan-Demirtas

Location: Hall C (Ernest N. Morial Convention Center)

Cellulose nanocrystals coating for improving antifouling properties of membranes

(3989520)

DIVISION: CELL

Presenter(s): Salvatore Lombardo

Location: Hall C (Ernest N. Morial Convention Center)

Cluster-triggered autoluminescence of glucose and its derivatives: An initial study to characterize biopolymer supramolecular interactions

(3988072)

DIVISION: CELL

Presenter(s): Marcus Alexander Johns

Location: Hall C (Ernest N. Morial Convention Center)

Colorful, circular and stimuli-responsive: the changing paradigm of lignin-based materials

(3990997)

DIVISION: CELL

Presenter(s): Mika Sipponen

Location: Hall C (Ernest N. Morial Convention Center)

Conductive paper composites for aluminum-air batteries

(3990593)

DIVISION: CELL

Presenter(s): Anny Carolina Morales Araujo

Location: Hall C (Ernest N. Morial Convention Center)

Dislocation mechanism of α -chitin crystal

(4002328)

DIVISION: CELL

Presenter(s): Zhangmin Wan

Location: Hall C (Ernest N. Morial Convention Center)

Effects of multiple polymer degradation pathways within compost conditions

(4016221)

DIVISION: CELL

Presenter(s): Gray Warrick Calaway
Location: Hall C (Ernest N. Morial Convention Center)

Elucidating the role of hierarchical structure of soy proteins in adhesive wet strength

(3995688)
DIVISION: CELL
Presenter(s): Nayomi Plaza
Location: Hall C (Ernest N. Morial Convention Center)

Enzymatic cascade functionalization of extracted hemicelluloses from spruce and eucalyptus

(3982400)
DIVISION: CELL
Presenter(s): Zsuzsanna Peter-Szabo
Location: Hall C (Ernest N. Morial Convention Center)

Exploiting the inherent chirality of cellulose: Synthesis of non-conventional chiral stationary phases for enantioseparation by HPLC

(3993485)
DIVISION: CELL
Presenter(s): Hubert Hettegger
Location: Hall C (Ernest N. Morial Convention Center)

Extraction of bioactive compounds from woody biomass using hydrodynamic cavitation

(3987462)
DIVISION: CELL
Presenter(s): Petri Olavi Kilpelainen
Location: Hall C (Ernest N. Morial Convention Center)

GlycoData: Glycomip's endeavor to revolutionize glycomaterial data sharing

(3993937)
DIVISION: CELL
Presenter(s): Fangxi Wang
Location: Hall C (Ernest N. Morial Convention Center)

Green and economical synthesis of Deep Eutectic Solvent (DES)-pretreated high-strength densified wood

(3988133)
DIVISION: CELL
Presenter(s): Akash Gondaliya
Location: Hall C (Ernest N. Morial Convention Center)

**Green electronics produced by iron-catalyzed laser-induced graphitization:
Current challenges and future perspectives**

(3995416)

DIVISION: CELL

Presenter(s): Christopher Dreimol

Location: Hall C (Ernest N. Morial Convention Center)

**Harnessing lignin's potential: Steps towards a sustainable sorbent for carbon
capture**

(3985021)

DIVISION: CELL

Presenter(s): Jake Carrier

Location: Hall C (Ernest N. Morial Convention Center)

**Integrated machine learning and big data analysis for hyperspectral
characterization of heterogeneous municipal solid waste**

(3997423)

DIVISION: CELL

Presenter(s): Mariangeles Salas

Location: Hall C (Ernest N. Morial Convention Center)

**Leveraging glycerol-derived solvents for low-pressure reductive catalytic
fractionation of softwood lignins into value-added aromatic monomers**

(3987795)

DIVISION: CELL

Presenter(s): Bernard C. Ekeoma

Location: Hall C (Ernest N. Morial Convention Center)

**Melt-spun lignin ester fibers and their magnetic hybrids to facilitate separation
processes**

(3991011)

DIVISION: CELL

Presenter(s): Unnimaya Thalakkale Veettil

Location: Hall C (Ernest N. Morial Convention Center)

**MOF and regenerated polysaccharide monodisperse foams via microfluidic
liquid foam templating towards carbon capture applications**

(3981251)

DIVISION: CELL

Presenter(s): Yeedo Chun

Location: Hall C (Ernest N. Morial Convention Center)

MOF integrated cellulose-based nanofibrous aerogels for enhanced functionality

(3996453)

DIVISION: CELL

Presenter(s): Vahid Rahmanian

Location: Hall C (Ernest N. Morial Convention Center)

Non-isocyanate polyurethane bio-foam with inherent heat and fire resistance

(3976418)

DIVISION: CELL

Presenter(s): Dallin L. Smith

Location: Hall C (Ernest N. Morial Convention Center)

Stereolithography with lignin and cellulose: Designing chemistry for 3D printed continuous and aligned fiber composites that mimic plants

(3988382)

DIVISION: CELL

Presenter(s): Stephen C Chmely

Location: Hall C (Ernest N. Morial Convention Center)

Subcritical water extraction of high value fucoidan from brown seaweed (*Fucus vesiculosus*)

(3981636)

DIVISION: CELL

Presenter(s): Aaron Ellis Brown

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis of birch bark-derived thermoset foams

(3997268)

DIVISION: CELL

Presenter(s): Heather LaFrance

Location: Hall C (Ernest N. Morial Convention Center)

Synthetic biocatalysts for enzymatic conversion of biomass into high-tech nanomaterials

(4005539)

DIVISION: CELL

Presenter(s): Raul Pérez-Jiménez

Location: Hall C (Ernest N. Morial Convention Center)

Tough and fatigue resistant nanoadhesives from chitosan nanocrystals

(3988305)

DIVISION: CELL

Presenter(s): Tony Jin

Location: Hall C (Ernest N. Morial Convention Center)

Toward smart and safe engineered materials and devices for clean air and water

(3978798)

DIVISION: CELL

Presenter(s): Ulrica Edlund

Location: Hall C (Ernest N. Morial Convention Center)

Understanding the role of protein coalescence in improving protein-based adhesives for wood products

(3996643)

DIVISION: CELL

Presenter(s): Chris G Hunt

Location: Hall C (Ernest N. Morial Convention Center)

Unlocking the potential of plant polyphenols: A new frontier in multifunctional materials

(3978542)

DIVISION: CELL

Presenter(s): Junling Guo

Location: Hall C (Ernest N. Morial Convention Center)

Upcycling food waste to create a biodegradable, edible, and preservative bioplastic food coating

(3995806)

DIVISION: CELL

Presenter(s): Jacquelyn McBride

Location: Hall C (Ernest N. Morial Convention Center)

Using Sorbitol as an eco-friendly additive to prevent cracking in sheared cellulose nanocrystal films

(3996858)

DIVISION: CELL

Presenter(s): Tanmay Rahman

Location: Hall C (Ernest N. Morial Convention Center)

Utilization of biomass and industrial waste on 3D printing applications

(3986402)

DIVISION: CELL

Presenter(s): Anqi Ji

Location: Hall C (Ernest N. Morial Convention Center)

Utilizing ultrasonic spray for the integration of organic solar cells on cellulose curtains

(3992068)

DIVISION: CELL

Presenter(s): Xinyu Jiang

Location: Hall C (Ernest N. Morial Convention Center)

CHAL

Evolution of counterfeit pharmaceuticals and the challenges they pose

(3987438)

DIVISION: CHAL

Presenter(s): Nina Salazar

Location: Virtual Session (Virtual Only)

CHAS

How do you train undergraduate students in lab safety?

(3991915)

DIVISION: CHAS

Presenter(s): Jamie Freeman

Location: Hall C (Ernest N. Morial Convention Center)

Safety through collaboration using the hierarchy of controls as inspiration

(3981193)

DIVISION: CHAS

Presenter(s): Marta Guron

Location: Hall C (Ernest N. Morial Convention Center)

CINF

Active learning for excited states dynamics simulations to discover molecular degradation pathways

(3991878)

DIVISION: CINF

Presenter(s): Chen Zhou

Location: Hall C (Ernest N. Morial Convention Center)

ChatGPT chemistry assistant for text mining and prediction of MOF synthesis

(3985909)

DIVISION: CINF

Presenter(s): Zhiling Zheng

Location: Hall C (Ernest N. Morial Convention Center)

Finding new function among known organic and organometallic crystalline materials

(3996646)

DIVISION: CINF

Presenter(s): Kimberley Rose Cousins

Location: Hall C (Ernest N. Morial Convention Center)

Machine learning electron density prediction using weighted smooth overlap of atomic positions

(3996682)

DIVISION: CINF

Presenter(s): Siddarth Achar

Location: Hall C (Ernest N. Morial Convention Center)

Quantitative read-across structure-activity relationship (q-RASAR) modeling of aquatic toxicity of Atlantic and Pacific Salmons to organic chemicals

(3992097)

DIVISION: CINF

Presenter(s): Siyun Yang

Location: Hall C (Ernest N. Morial Convention Center)

Quantum algorithm for the graph isomorphism problem

(3993062)

DIVISION: CINF

Presenter(s): Nam Vu

Location: Hall C (Ernest N. Morial Convention Center)

Substrate scope contrastive loss: Repurposing human bias to learn representations of reactive atoms

(3977789)

DIVISION: CINF

Presenter(s): Wenhao Gao

Location: Hall C (Ernest N. Morial Convention Center)

Three tales of marketization. The role of publication programs in the entry into an era of articlization in chemistry

(3993266)

DIVISION: CINF

Presenter(s): Marianne Noel

Location: Hall C (Ernest N. Morial Convention Center)

Toward accurate prediction of reaction minor products and impurities

(3990110)

DIVISION: CINF

Presenter(s): Seung Kyun Ha

Location: Hall C (Ernest N. Morial Convention Center)

ToxiVerse: an online comprehensive chemical profiling, modeling, and data analysis platform

(3989036)

DIVISION: CINF

Presenter(s): Yitao Shen

Location: Hall C (Ernest N. Morial Convention Center)

Utilizing low-dimensional molecular embeddings for rapid chemical similarity searching

(3979957)

DIVISION: CINF

Presenter(s): James Wellnitz

Location: Hall C (Ernest N. Morial Convention Center)

COLL

'Liquid-Like' solid surfaces: Combative strategy towards anti-biofouling

(3986812)

DIVISION: COLL

Presenter(s): Arpita Shome

Location: Hall C (Ernest N. Morial Convention Center)

Accelerated aging as a solvent-free methodology to access biomass-based nanomaterials

(3988376)

DIVISION: COLL

Presenter(s): Tony Jin

Location: Hall C (Ernest N. Morial Convention Center)

Achieving metal doping of strongly confined halide perovskite nanocrystals under ambient conditions

(3981856)

DIVISION: COLL

Presenter(s): Zachary VanOrman

Location: Hall C (Ernest N. Morial Convention Center)

Aluminum nanocrystals: The surface oxide as ligand for chemical functionalities

(3976431)

DIVISION: COLL

Presenter(s): Naomi J Halas

Location: Hall C (Ernest N. Morial Convention Center)

Antimicrobial efficiency of Ag- and Cu- nanoparticle-hydrogel nanocomposite systems

(3994590)

DIVISION: COLL

Presenter(s): Katey Maerose Sheets

Location: Hall C (Ernest N. Morial Convention Center)

Capability study of laser-reduced graphene oxide electrochemical sensors

(3991186)

DIVISION: COLL

Presenter(s): Braman Pendleton Cronin

Location: Hall C (Ernest N. Morial Convention Center)

Cationic bolaamphiphiles containing different linker: Comparison study on self-assembly, in vitro cytotoxicity, antibacterial activity, and gene transfection

(3992185)

DIVISION: COLL

Presenter(s): Pabitra Mondal

Location: Hall C (Ernest N. Morial Convention Center)

Characterization of graphene oxide's physicochemical properties

(3995859)

DIVISION: COLL

Presenter(s): Young Jun Chun

Location: Hall C (Ernest N. Morial Convention Center)

Characterization of lipid-based natamycin nanocarriers for ophthalmic drug delivery

(3981637)

DIVISION: COLL

Presenter(s): Luigi Talarico

Location: Hall C (Ernest N. Morial Convention Center)

Computational investigation of the impact of orientations on ionic contact pairs

(3990805)

DIVISION: COLL

Presenter(s): Shelby L Franke

Location: Hall C (Ernest N. Morial Convention Center)

Decoupling sphere diameter and origami binding site size in microsphere/nanosphere lithography

(3992601)

DIVISION: COLL

Presenter(s): Jacob Hastings | Michael Louis Norton

Location: Hall C (Ernest N. Morial Convention Center)

Design and delivery of new peptide-drug conjugates into three-dimensional tumoroids

(3997622)

DIVISION: COLL

Presenter(s): Mary A Biggs | Ipsita A Banerjee

Location: Virtual Session (Virtual Only)

Design and synthesis of antibacterial manganese sulfide nanoparticles for Pierce's disease

(3990582)

DIVISION: COLL

Presenter(s): Yael Faroud

Location: Hall C (Ernest N. Morial Convention Center)

Determining binding constants between LRP-1 and Fibrinogen: Applications in surface chemistry

(3997370)

DIVISION: COLL

Presenter(s): Alyssa Yao

Location: Hall C (Ernest N. Morial Convention Center)

Developing selenium precursors for ZnSe nanocrystal syntheses

(3991551)

DIVISION: COLL

Presenter(s): Rebecca Smith

Location: Hall C (Ernest N. Morial Convention Center)

Development of icariin loaded DSPE-PEG2000/DPPC micelles for pulmonary delivery

(3987453)

DIVISION: COLL

Presenter(s): Chengwei Jiang

Location: Hall C (Ernest N. Morial Convention Center)

Development of plasmonic catalysts for light-driven ammonia production

(3993770)

DIVISION: COLL

Presenter(s): Dominic Grinnell

Location: Hall C (Ernest N. Morial Convention Center)

Directing phase separation to harness microstructure in biomaterials for controlled cellular behavior

(3980368)

DIVISION: COLL

Presenter(s): Linqing Li

Location: Hall C (Ernest N. Morial Convention Center)

Directing triplet and singlet energy transfer in halide perovskite nanocrystal-rhodamine dye hybrids

(3987272)

DIVISION: COLL

Presenter(s): Akshaya Chemmangat

Location: Hall C (Ernest N. Morial Convention Center)

Divalent cations promote huntingtin fibril formation on endoplasmic reticulum model membranes

(3995228)

DIVISION: COLL

Presenter(s): Shelli Frey

Location: Hall C (Ernest N. Morial Convention Center)

Effect of operational parameters on photocatalytic degradation of ibuprofen pharmaceutical using coconut shell activated carbon doped ZnO nanocomposites

(3995920)

DIVISION: COLL

Presenter(s): Adewumi Oluwasogo Dada

Location: Hall C (Ernest N. Morial Convention Center)

Exploring the binding of metal cations to negatively charged lipids by diffusion constant measurements

(3983136)

DIVISION: COLL

Presenter(s): Ryan Zdenek

Location: Hall C (Ernest N. Morial Convention Center)

General synthesis of rare earth oxide nanocluster superstructures via high temperature surface ligand switching

(3997637)

DIVISION: COLL

Presenter(s): Grayson Johnson

Location: Hall C (Ernest N. Morial Convention Center)

Glutathione monolayer protected nanoparticles influence calcium phosphate mineralization of collagen

(3990186)

DIVISION: COLL

Presenter(s): Kristy Ta

Location: Hall C (Ernest N. Morial Convention Center)

Gold- and gold/silver-deposited magnesium ferrite-based nanoparticles for catalytic reduction of 4-nitrophenol

(3994380)

DIVISION: COLL

Presenter(s): Supawitch Hoijang

Location: Hall C (Ernest N. Morial Convention Center)

Graphene oxide and its derivatives as adsorbents for PFOA molecules

(3992199)

DIVISION: COLL

Presenter(s): Xin Wang

Location: Hall C (Ernest N. Morial Convention Center)

Highly fluorescent nanoplatforms for specific cell targeting

(3991747)

DIVISION: COLL

Presenter(s): Malte Holzapfel

Location: Hall C (Ernest N. Morial Convention Center)

Human serum albumin conjugated gold nanoparticles based drug delivery systems of ferulic acid and sinapic acid

(3994931)

DIVISION: COLL

Presenter(s): Anjali Anjali

Location: Virtual Session (Virtual Only)

Impact of amphiphilic co-solvents on cellular membrane organization and its implications for biofuel production

(3994849)

DIVISION: COLL

Presenter(s): Jonathan D. Nickels

Location: Hall C (Ernest N. Morial Convention Center)

Incorporating octanethiol-functionalized gold nanoparticles into the interior of bilayer peptoid nanosheets

(3993821)

DIVISION: COLL

Presenter(s): Ellen Jean Robertson

Location: Hall C (Ernest N. Morial Convention Center)

Influence of alcohols on the mechanical properties and phase behaviour of lipid bilayers

(3983164)

DIVISION: COLL

Presenter(s): Suryabrahmam Buti

Location: Hall C (Ernest N. Morial Convention Center)

Investigation of the thermodynamics and kinetics of transition metal ion - lipid binding interactions

(3986209)

DIVISION: COLL

Presenter(s): Olivia C. Fiebig

Location: Hall C (Ernest N. Morial Convention Center)

Iron-mediated cancer therapy promoted by hyperthermia

(3986250)

DIVISION: COLL

Presenter(s): Menglei Zha

Location: Virtual Session (Virtual Only)

Langmuir Monolayers as model cell membrane systems for the investigation of the healing effects of bee propolis and its main bioactive component on burned and wounded skin cells

(3994753)

DIVISION: COLL

Presenter(s): Ivy Hawkins

Location: Hall C (Ernest N. Morial Convention Center)

Mechanisms of nanobubbles interactions with biological macromolecules

(3976213)

DIVISION: COLL

Presenter(s): Miroslav Colic

Location: Hall C (Ernest N. Morial Convention Center)

Membraneless organization in a molecularly crowded environment: Interplay between associative and segregative LLPS systems

(3987767)

DIVISION: COLL

Presenter(s): Caroline Love

Location: Hall C (Ernest N. Morial Convention Center)

Metal doping effect on bi-icosahedral Au₂₅ nanoclusters

(3985227)

DIVISION: COLL

Presenter(s): Benjamin Raufman | Catherine Connolly | Mary Devadas

Location: Virtual Session (Virtual Only)

Modifying reaction conditions to control nanoparticle morphology in gold decorated graphene oxide

(3996901)

DIVISION: COLL

Presenter(s): Seth Burkert

Location: Hall C (Ernest N. Morial Convention Center)

Modulation of two-dimensional exciton emissions at room temperature by colloidal gold nanodisk-based plasmonic nanocavities

(3980101)

DIVISION: COLL

Presenter(s): Xinyue Xia

Location: Hall C (Ernest N. Morial Convention Center)

Molecular structure of 1:1 cationic:anionic surfactant pairs at the oil-water interface: Joined at the tail or not?

(3985768)

DIVISION: COLL

Presenter(s): Konnor Jones

Location: Hall C (Ernest N. Morial Convention Center)

Multiexcitonic emission from Cs₂ZrCl₆:Mo⁴⁺ vacancy ordered lead-free double perovskites

(3993110)

DIVISION: COLL

Presenter(s): Shubham Kumar

Location: Hall C (Ernest N. Morial Convention Center)

Multifunctional molecular ferroelectric metamaterials

(3977198)

DIVISION: COLL

Presenter(s): Shenqiang Ren

Location: Hall C (Ernest N. Morial Convention Center)

Multifunctional nanogels to cure drug-resistant bacterial infections and attenuate bacterial antigen-responsive hyper-inflammation

(3993927)

DIVISION: COLL

Presenter(s): Sudip Mukherjee

Location: Hall C (Ernest N. Morial Convention Center)

Nickel-copper bimetallic nanocatalyst synthesis via galvanic exchange

(3993780)

DIVISION: COLL

Presenter(s): Chathura Buddhika Wijethunga

Location: Hall C (Ernest N. Morial Convention Center)

Nitric oxide-releasing glycosaminoglycans for corneal wound healing

(3994190)

DIVISION: COLL

Presenter(s): Margery E Purvis

Location: Hall C (Ernest N. Morial Convention Center)

Novel theranostic nanocarriers for combined drug delivery and diagnostic monitoring by Magnetic Resonance Imaging (MRI)

(3986327)

DIVISION: COLL

Presenter(s): Neve Thomson

Location: Hall C (Ernest N. Morial Convention Center)

Perfluorooctanoic acid fluidizes membranes and enhances bioconcentration

(3997603)

DIVISION: COLL

Presenter(s): Rhys C. Trousdale

Location: Hall C (Ernest N. Morial Convention Center)

Phase behavior of attractive polymer chains via Monte Carlo simulation

(3995222)

DIVISION: COLL

Presenter(s): Alberto Sevilla

Location: Virtual Session (Virtual Only)

Photo-catalytic degradation of emerging pollutants using a nano-carbon / TiO₂ self-assembled coating

(3995175)

DIVISION: COLL

Presenter(s): Margaret A. Burrows

Location: Hall C (Ernest N. Morial Convention Center)

pH-responsive rhenium disulfide/mesoporous silica core-shell nanoparticles for drug delivery, chemo-photothermal therapy and cellular imaging

(3985256)

DIVISION: COLL

Presenter(s): Ha Na

Location: Hall C (Ernest N. Morial Convention Center)

Plasmon driven chemistry of viologen derivatives

(3991379)

DIVISION: COLL

Presenter(s): Tara Huffman

Location: Hall C (Ernest N. Morial Convention Center)

Preventing coarsening of foams using hydrophobically modified silica nanoparticles: A study using microfluidics, xray reflectivity, grazing incidence small angle xray scattering and dilational viscosity measurements

(3996794)

DIVISION: COLL

Presenter(s): Charles Maldarelli

Location: Hall C (Ernest N. Morial Convention Center)

Probing the thermodynamics of the nanoparticle-protein corona using a host-guest framework

(3989285)

DIVISION: COLL

Presenter(s): Chathuri S. Kariyawasam

Location: Hall C (Ernest N. Morial Convention Center)

Room-temperature quantum coherence in icosahedral virus particles

(3996341)

DIVISION: COLL

Presenter(s): Bogdan Dragnea

Location: Hall C (Ernest N. Morial Convention Center)

Self-organization of active colloids induced by shape heterogeneity and broken axisymmetry

(3992913)

DIVISION: COLL

Presenter(s): William E Uspal

Location: Hall C (Ernest N. Morial Convention Center)

SFG and QCM-D studies on interfacial behavior and antifouling activity of adsorbed copolymers at solid/liquid interfaces in situ in real-time

(3979347)

DIVISION: COLL

Presenter(s): jinpeng Gao

Location: Hall C (Ernest N. Morial Convention Center)

Strain-induced photonic Pseudomagnetism in colloidal assemblies

(3978203)

DIVISION: COLL

Presenter(s): Mikael Rechtsman

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis and characterization of gold nanoclusters with an electroactive ligand

(3977013)

DIVISION: COLL

Presenter(s): Tessa Snyder | Jakob Winterle | Mary Devadas

Location: Virtual Session (Virtual Only)

Synthesis and characterization of stimuli- responsive self-assembling cyclic peptide nanotubes through light exposure

(3994689)

DIVISION: COLL

Presenter(s): Olufolasade Atoyebi

Location: Hall C (Ernest N. Morial Convention Center)

Thermal-responsive nanocrystals superlattice from increased mobility of NCS with lubricating ligands

(3992808)

DIVISION: COLL

Presenter(s): Shengsong Yang

Location: Hall C (Ernest N. Morial Convention Center)

To bind or not to bind: Donor-acceptor complexation at the liquid-solid interface through bivalent design

(3983331)

DIVISION: COLL

Presenter(s): Robby Reynaerts

Location: Hall C (Ernest N. Morial Convention Center)

Transport of small molecules across surfactant-laden interfaces

(3991188)

DIVISION: COLL

Presenter(s): Xin Wang

Location: Hall C (Ernest N. Morial Convention Center)

Tuning the magnetic response of organic/inorganic nanocomposites composed of Spion embedded nanogels

(3989583)

DIVISION: COLL

Presenter(s): Dominic Gray

Location: Hall C (Ernest N. Morial Convention Center)

Using model membranes to investigate the relationship between sex hormones and cholesterol and their role in the progression of Alzheimer's Disease

(3995127)

DIVISION: COLL

Presenter(s): Cassandra Nolasco

Location: Hall C (Ernest N. Morial Convention Center)

COMP

Accelerated discovery of high entropy thermoelectric alloys via active learning

(3984429)

DIVISION: COMP

Presenter(s): Wooseok Lee

Location: Hall C (Ernest N. Morial Convention Center)

Accelerating computational molecular discovery with integrated Tabu search and machine learning

(3993146)

DIVISION: COMP

Presenter(s): Sandip Giri

Location: Hall C (Ernest N. Morial Convention Center)

Acceleration of early drug discovery using AI-driven approaches: Identification of potential novel inhibitors for rabies

(3990480)

DIVISION: COMP

Presenter(s): Sankalp Jain

Location: Hall C (Ernest N. Morial Convention Center)

Adapting Cluspro for efficient transmembrane protein docking

(3995344)

DIVISION: COMP

Presenter(s): Hao Yu

Location: Hall C (Ernest N. Morial Convention Center)

Advancing CPHMD Research: A comprehensive automation pipeline and its application to folate receptor dynamics

(3994048)

DIVISION: COMP

Presenter(s): Stanislav Cherepanov

Location: Hall C (Ernest N. Morial Convention Center)

Advancing G-quadruplex drug targeting through polarizable simulations and SILCS

(3981592)

DIVISION: COMP

Presenter(s): Haley Michel

Location: Hall C (Ernest N. Morial Convention Center)

Advancing lignin bioconversion: Structure-activity relationships of cytochrome P450 aromatic O-demethylase using QM-cluster models

(3993728)

DIVISION: COMP

Presenter(s): Tejaskumar Suhagia

Location: Hall C (Ernest N. Morial Convention Center)

Benchmarking protein FEP+ for non-canonical amino acid mutations in cyclic peptides

(4002736)

DIVISION: COMP

Presenter(s): Lei Yu

Location: Hall C (Ernest N. Morial Convention Center)

Bridging the gap between first principles reaction discovery and continuum modeling

(3976922)

DIVISION: COMP

Presenter(s): Rui Xu

Location: Hall C (Ernest N. Morial Convention Center)

Combining classical selected-CI approaches and quantum computing : Quantum state preparation via Overlap-ADAPT-VQE

(3994252)

DIVISION: COMP

Presenter(s): César Feniou

Location: Hall C (Ernest N. Morial Convention Center)

Computational analysis of a fluorinated 1,4-diphenyl-5,6-fused ring pyridazine

(3994444)

DIVISION: COMP

Presenter(s): Steven Wild

Location: Hall C (Ernest N. Morial Convention Center)

Computational study of multienzyme colocalization on lipid membrane

(3992829)

DIVISION: COMP

Presenter(s): Shivansh Kaushik

Location: Hall C (Ernest N. Morial Convention Center)

Conformational analysis of nucleic acids for optimizing DNA and RNA topological models

(3994970)

DIVISION: COMP

Presenter(s): Philippe Archambault

Location: Hall C (Ernest N. Morial Convention Center)

Constant pH molecular dynamics of porcine circovirus 2 capsid protein reveals a mechanism for capsid assembly

(3996203)

DIVISION: COMP

Presenter(s): Elvira Tarasova

Location: Hall C (Ernest N. Morial Convention Center)

Constrained nuclear-electronic orbital (CNEO) framework: Accurate vibrational spectra and reaction rates from efficient incorporation of nuclear quantum effects

(3979963)

DIVISION: COMP

Presenter(s): Yang Yang

Location: Hall C (Ernest N. Morial Convention Center)

Construction of machine-learned molecular mechanics force field using end-to-end differentiable framework

(3986823)

DIVISION: COMP

Presenter(s): Kenichiro Takaba

Location: Hall C (Ernest N. Morial Convention Center)

Density matrix embedding to explore localized electronic states in finite and extended systems

(3979571)

DIVISION: COMP

Presenter(s): Shreya Verma

Location: Hall C (Ernest N. Morial Convention Center)

Development of a protein-ligand 3D structure database for AI-based binding site prediction

(3988303)

DIVISION: COMP

Presenter(s): Dongwoo Kim

Location: Hall C (Ernest N. Morial Convention Center)

DFT analysis of polyene radical stability via Hammett like constants, thermodynamic properties, and spin density fitting parameters

(3992780)

DIVISION: COMP

Presenter(s): Steven Patrick Nixon

Location: Hall C (Ernest N. Morial Convention Center)

Distopia: A molecular geometry analysis MDAKit

(3993288)

DIVISION: COMP

Presenter(s): Richard J Gowers

Location: Hall C (Ernest N. Morial Convention Center)

Efficient protocol for accurately triaging molecules in the development of a SARS-CoV-2 main protease inhibitor

(3985590)

DIVISION: COMP

Presenter(s): Alex Matthew Payne

Location: Hall C (Ernest N. Morial Convention Center)

Expanded package for IET-based solvation to perform 3D-RISM calculations for solvation of chemical and biological molecules

(3985046)

DIVISION: COMP

Presenter(s): Siqin Cao

Location: Hall C (Ernest N. Morial Convention Center)

Exploring methods for developing a machine learned interatomic potential for ultra-high temperature ceramics

(3994529)

DIVISION: COMP

Presenter(s): Vayle Vera Cruz

Location: Hall C (Ernest N. Morial Convention Center)

Extreme-scale heterogeneous inference with large language models and atomistic graph neural networks for catalyst discovery

(3997655)

DIVISION: COMP

Presenter(s): Mariefel Valenzuela Olarte

Location: Hall C (Ernest N. Morial Convention Center)

Furthering design of mimetic lipoproteins peptides through all-atom simulations

(3986413)

DIVISION: COMP

Presenter(s): Zachary Jarin

Location: Hall C (Ernest N. Morial Convention Center)

Guided molecular generation via fragment-based incorporating with physico-chemical properties

(3997606)

DIVISION: COMP

Presenter(s): Islambek Ashyrmamatov

Location: Hall C (Ernest N. Morial Convention Center)

Harnessing GPU power for quantum leap in computational chemistry: Scaling electronic structure methods with Julia Language

(3979780)

DIVISION: COMP

Presenter(s): Leticia Madureira

Location: Hall C (Ernest N. Morial Convention Center)

Highlighting potential challenges in time-dependent equation-of-motion coupled-cluster theory

(3977540)

DIVISION: COMP

Presenter(s): Stephen Haniel Yuwono

Location: Hall C (Ernest N. Morial Convention Center)

High-throughput design of therapeutic antibodies with a λ Dynamics-based approach

(3994826)

DIVISION: COMP

Presenter(s): Amirmasoud Samadi

Location: Hall C (Ernest N. Morial Convention Center)

Improving accuracy of chemical search using minimal enumeration Library

(3990237)

DIVISION: COMP

Presenter(s): Ebadah Khan

Location: Hall C (Ernest N. Morial Convention Center)

Influence of model building schemes and molecular dynamics sampling on QM-cluster models: The chorismate mutase case study

(3990781)

DIVISION: COMP

Presenter(s): Donatus Atsu Atsu Agbaglo | Thomas Summers | Qianyi Cheng | Nathan J Deyonker

Location: Hall C (Ernest N. Morial Convention Center)

Inverse design of crystals with symmetry enforcement using generative diffusion models

(3996951)

DIVISION: COMP

Presenter(s): Ryotaro Okabe

Location: Hall C (Ernest N. Morial Convention Center)

Investigating an enzyme mechanism using computed NMR spectra of patchouli oil epimers

(3979578)

DIVISION: COMP

Presenter(s): Christian S. Hamann

Location: Hall C (Ernest N. Morial Convention Center)

Investigation of cannabidiol's potential targets in limbic seizures: In-Silico approach

(3990429)

DIVISION: COMP

Presenter(s): Olabimpe Olafuyi

Location: Hall C (Ernest N. Morial Convention Center)

Is double decoupling statistically equivalent to transfer in explicit solvent?

(3996657)

DIVISION: COMP

Presenter(s): Solmaz Azimi

Location: Hall C (Ernest N. Morial Convention Center)

Lambda Dynamics with bias updated Gibbs sampling delivers accurate and highly efficient free energies of binding

(3981920)

DIVISION: COMP

Presenter(s): Jonah Z Vilseck

Location: Hall C (Ernest N. Morial Convention Center)

Machine-learned reaction coordinates for hydrophobic ligand dissociation

(3981390)

DIVISION: COMP

Presenter(s): Eric Beyerle

Location: Hall C (Ernest N. Morial Convention Center)

Mechanisms of DNA cleavage in CRISPR-Cas systems

(3989068)

DIVISION: COMP

Presenter(s): Richard Van

Location: Hall C (Ernest N. Morial Convention Center)

Modulation of allostery with multiple mechanisms by hotspot mutations in TetR

(3978417)

DIVISION: COMP

Presenter(s): Jiahua Deng

Location: Hall C (Ernest N. Morial Convention Center)

Molecular dynamics investigation of the TT and TGT mutations of DNA aptamers for lead with variable salinity

(3989987)

DIVISION: COMP

Presenter(s): Sarah Michelle Lee Bartley

Location: Hall C (Ernest N. Morial Convention Center)

Molecular modelling of biodegradable plastics

(3985270)

DIVISION: COMP

Presenter(s): Cindy Y. Liu

Location: Hall C (Ernest N. Morial Convention Center)

Neural network based force-fields for graphene oxide-aqueous interfaces

(3987678)

DIVISION: COMP

Presenter(s): Golam Azom

Location: Hall C (Ernest N. Morial Convention Center)

New metric and benchmark for assessing virtual screening performance on large libraries

(3993425)

DIVISION: COMP

Presenter(s): Michael Brocidiacono

Location: Hall C (Ernest N. Morial Convention Center)

Novel approach for pose prediction of generatively designed compounds with diverse cores for profiling using FEP-based approaches

(3996308)

DIVISION: COMP

Presenter(s): Rajat Kumar Pal

Location: Hall C (Ernest N. Morial Convention Center)

Optimizing discrete frequency infrared imaging using a regressive neural network for visualization and quantification of Secondary Structural Heterogeneity of protein deposits in human tissue sections

(3995057)

DIVISION: COMP

Presenter(s): Harrison O'Neal Edmonds

Location: Hall C (Ernest N. Morial Convention Center)

Organizing 3D project data for structure-based drug design

(3995026)

DIVISION: COMP

Presenter(s): Alain Ajamian

Location: Hall C (Ernest N. Morial Convention Center)

Predicting DFT-level descriptors for amide coupling reactions

(3980181)

DIVISION: COMP

Presenter(s): Shree Sowndarya Santhanalakkshmi Vejaykummar

Location: Hall C (Ernest N. Morial Convention Center)

Predicting the shape of drug molecules containing the phenylethylamine moiety using machine learned potentials

(3982461)

DIVISION: COMP

Presenter(s): Chris Williams

Location: Hall C (Ernest N. Morial Convention Center)

Quantification of self-interaction errors in selective catalytic reduction of NO_x in Cu-SSZ-13 zeolite

(3996431)

DIVISION: COMP

Presenter(s): Priyanka Shukla
Location: Hall C (Ernest N. Morial Convention Center)

Reaction-aware machine learning potentials using growing string method-based active learning

(3996256)
DIVISION: COMP
Presenter(s): Siddarth Achar
Location: Hall C (Ernest N. Morial Convention Center)

Simultaneous construction of free energy surfaces for the rational optimization of ligand unbinding kinetics

(3992317)
DIVISION: COMP
Presenter(s): Thanh Tri Lai
Location: Hall C (Ernest N. Morial Convention Center)

Solvation thermodynamics barriers to binding site formation

(3992547)
DIVISION: COMP
Presenter(s): Yeonji Ji
Location: Hall C (Ernest N. Morial Convention Center)

Targeted protein degradation with heterobifunctional degraders: Modeling and screening

(3994923)
DIVISION: COMP
Presenter(s): Michael L Drummond
Location: Hall C (Ernest N. Morial Convention Center)

Thermodynamic and structural features of water in confined spaces

(3996680)
DIVISION: COMP
Presenter(s): Joe Z Wu
Location: Hall C (Ernest N. Morial Convention Center)

Topology design of polymers with decoupled thermodynamics and dynamics properties via machine learning

(3992930)
DIVISION: COMP
Presenter(s): Tianyi Wang
Location: Hall C (Ernest N. Morial Convention Center)

Transferability of intrinsic reaction coordinates between related reactions

(3995099)

DIVISION: COMP

Presenter(s): Edward N Brothers

Location: Hall C (Ernest N. Morial Convention Center)

Understanding the nucleation of cyclic polyoxovanadate-alkoxide clusters

(3995125)

DIVISION: COMP

Presenter(s): Genevieve Duggan

Location: Hall C (Ernest N. Morial Convention Center)

Understanding the structure-property relationship of ACC-Dimers via high-throughput density functional theory and machine learning

(3991472)

DIVISION: COMP

Presenter(s): Luke Nambi Mohanam

Location: Hall C (Ernest N. Morial Convention Center)

ENFL

3D bipolar membrane fabrication and its influence on reverse- and forward-biased BPM applications

(3994668)

DIVISION: ENFL

Presenter(s): Tianyue Gao

Location: Hall C (Ernest N. Morial Convention Center)

Alkali-promoted selective CO₂ reduction to alcohols

(3990153)

DIVISION: ENFL

Presenter(s): Ping Liu

Location: Hall C (Ernest N. Morial Convention Center)

Ambient temperature synthesis and electrochemical performance of porous semiconducting metal chalcogenides electrode materials for energy storage application

(3995928)

DIVISION: ENFL

Presenter(s): Peighton Powe

Location: Hall C (Ernest N. Morial Convention Center)

Biomass-derived electrode and electrolyte for green supercapacitors

(3989179)

DIVISION: ENFL

Presenter(s): Ridwan Tobi Ayinla

Location: Hall C (Ernest N. Morial Convention Center)

Boosting CeO₂/Co₃O₄ heterojunctions acidic oxygen evolution via promoting OH coverage

(3977041)

DIVISION: ENFL

Presenter(s): HuangJingWei Li

Location: Hall C (Ernest N. Morial Convention Center)

CO₂-oxidative ethane dehydrogenation over alumina-supported chromium-based catalysts. The role of promoters in catalytic performance

(3991734)

DIVISION: ENFL

Presenter(s): Jose M. Lopez-Nieto

Location: Hall C (Ernest N. Morial Convention Center)

Computational design and study of a bimetallic salphen ligand scaffold for enhanced CO₂ reduction reaction (CO₂RR) catalysis

(3985037)

DIVISION: ENFL

Presenter(s): Gavin McCarver

Location: Hall C (Ernest N. Morial Convention Center)

Computational design of high entropy alloy catalysts for hydrogen technology

(3986779)

DIVISION: ENFL

Presenter(s): Guofeng Wang

Location: Hall C (Ernest N. Morial Convention Center)

Computational study on selected metalloporphyrins meso-decorated with thiophene for high-performance electrochemical energy storage systems: DFT investigations on the effect of the central metal

(3991709)

DIVISION: ENFL

Presenter(s): Hiba Abdelmunam Ali

Location: Hall C (Ernest N. Morial Convention Center)

Customized high-performance anion exchange membrane for alkaline redox flow batteries

(3979617)

DIVISION: ENFL

Presenter(s): Run Yang

Location: Hall C (Ernest N. Morial Convention Center)

Decarbonizing lime kilns at pulp mills via electrification

(3995613)

DIVISION: ENFL

Presenter(s): Edgar Carrejo

Location: Hall C (Ernest N. Morial Convention Center)

Design better electrolytes and interphases for Zn batteries

(3997184)

DIVISION: ENFL

Presenter(s): Kang Xu

Location: Hall C (Ernest N. Morial Convention Center)

Design of electrolytes for high-performance multivalent-ion battery: Insights from molecular simulations

(3981511)

DIVISION: ENFL

Presenter(s): Dengpan Dong

Location: Hall C (Ernest N. Morial Convention Center)

Design of tandem catalysts for conversion of CO₂ to aromatics

(3977996)

DIVISION: ENFL

Presenter(s): Dhrumil Shah

Location: Hall C (Ernest N. Morial Convention Center)

Development of advanced electrocatalysts for CO₂ and CO reduction

(4000114)

DIVISION: ENFL

Presenter(s): Chao Wang

Location: Hall C (Ernest N. Morial Convention Center)

Dry Reforming of Methane: Ni catalysts on high oxygen ion conductivity supports

(3994028)

DIVISION: ENFL

Presenter(s): Xuan Pham

Location: Hall C (Ernest N. Morial Convention Center)

Effect of super-optimal light intensity on acetic acid uptake and macromolecular synthesis in mixotrophic cultivation of *Chlorella sorokiniana* in bubble-column photobioreactors

(3993049)

DIVISION: ENFL

Presenter(s): Gourab Ghosh

Location: Hall C (Ernest N. Morial Convention Center)

Efficient energy harvesting using Ni-MoSe₂/2D MOF counter electrode-based dye-sensitized solar cells

(3991895)

DIVISION: ENFL

Presenter(s): John Bailey | Md Humayun Kabir

Location: Hall C (Ernest N. Morial Convention Center)

Electrocatalytic activity of Cu based MoF and its G-C₃N₄-based composites for oxygen reduction and evolution reaction in metal-air batteries

(3983858)

DIVISION: ENFL

Presenter(s): Tayyaba Noor | Naseem Iqbal

Location: Hall C (Ernest N. Morial Convention Center)

Electrochemical CO₂ reduction at surface modified silver nanoparticles

(3995786)

DIVISION: ENFL

Presenter(s): Isa Trevino

Location: Hall C (Ernest N. Morial Convention Center)

Electrodeposition of Ni, Co, Fe, and SE over carbon cloth towards electrocatalytic hydrogen evolution reaction

(3981110)

DIVISION: ENFL

Presenter(s): Joseph Alan Waite

Location: Hall C (Ernest N. Morial Convention Center)

Electrolyte for long-life lithium-ion batteries with mitigated transition metal dissolution

(3991543)

DIVISION: ENFL

Presenter(s): Qijia Zhu

Location: Hall C (Ernest N. Morial Convention Center)

Enhancing CO:H₂ selectivity in CO₂ electroreduction with an external magnetic field

(3985998)

DIVISION: ENFL

Presenter(s): Nawaraj Karki

Location: Hall C (Ernest N. Morial Convention Center)

Exploration of a comprehensive dilute acid pretreatment dataset on poplar wood: Modeling, mass balance, and reaction cascade

(3978834)

DIVISION: ENFL

Presenter(s): Julien Du Pasquier

Location: Hall C (Ernest N. Morial Convention Center)

High-rate capability and life cycling of 2D Mo₄/3B₂ i-MBene as an electrode for lithium-ion batteries and capacitors

(3994403)

DIVISION: ENFL

Presenter(s): Karamullah Eisawi

Location: Hall C (Ernest N. Morial Convention Center)

Hydrogen bonding-enhanced photoreforming of biomass furans on urea metal-organic frameworks

(3993263)

DIVISION: ENFL

Presenter(s): Yingchuan Zhang

Location: Hall C (Ernest N. Morial Convention Center)

Insights into the chemical structure and composition of bio-based deep eutectic solvent (DES) in biomass pretreatment

(3992881)

DIVISION: ENFL

Presenter(s): Jiae Ryu

Location: Hall C (Ernest N. Morial Convention Center)

Ionic liquids with sulfonyl fluoride moieties for electrochemical applications

(3987070)

DIVISION: ENFL

Presenter(s): Clinton Adu

Location: Hall C (Ernest N. Morial Convention Center)

Mechanistic insights into the low-temperature ozone assisted oxidation reactions of trans-2-pentene and cyclopentene

(3989899)

DIVISION: ENFL

Presenter(s): Arden Floyd

Location: Hall C (Ernest N. Morial Convention Center)

Metal-organic frameworks-derived cobalt-based selenides for electrochemical oxygen evolution reaction

(3992040)

DIVISION: ENFL

Presenter(s): Mariam A. Ibrahim

Location: Hall C (Ernest N. Morial Convention Center)

Novel metal-free battery with applications under cold condition

(3994076)

DIVISION: ENFL

Presenter(s): Ying Wang

Location: Hall C (Ernest N. Morial Convention Center)

Perovskite films passivated by a dendrimer toward high efficiency and high stability devices

(3980107)

DIVISION: ENFL

Presenter(s): Yifang Qi

Location: Hall C (Ernest N. Morial Convention Center)

Physics-informed machine learning of redox flow battery based on a two-dimensional unit cell model

(3989090)

DIVISION: ENFL

Presenter(s): Wenqian Chen

Location: Hall C (Ernest N. Morial Convention Center)

Potential of anionic phosphine borane complexes for CO₂ capture

(3991631)

DIVISION: ENFL

Presenter(s): Nathaniel Yeboah

Location: Hall C (Ernest N. Morial Convention Center)

Principle in determining fluorinated ether co-solvent for lithium metal batteries

(3978197)

DIVISION: ENFL

Presenter(s): Chi-Cheung Su

Location: Hall C (Ernest N. Morial Convention Center)

Process simulation and biocrude yield optimization of hydrothermal liquefaction of macroalgae(kelp)

(3991380)

DIVISION: ENFL

Presenter(s): Micheal Asama

Location: Hall C (Ernest N. Morial Convention Center)

Promoting effect of organic cations on the electrochemical reduction of CO₂ in aprotic solvents

(3992099)

DIVISION: ENFL

Presenter(s): Jon-Marc McGregor

Location: Hall C (Ernest N. Morial Convention Center)

Scalable solid-state nanoporous networks with atomic-level interaction design for carbon dioxide capture

(3997397)

DIVISION: ENFL

Presenter(s): Haiyan Mao

Location: Hall C (Ernest N. Morial Convention Center)

Strategies to improve oxygen reduction reaction activity for high-temperature PEMFCs

(3992658)

DIVISION: ENFL

Presenter(s): Honghong Lin

Location: Hall C (Ernest N. Morial Convention Center)

Surface ensemble engineering of multi-metallic high entropy alloy nanoparticles for catalysis

(3992951)

DIVISION: ENFL

Presenter(s): Nabojit Kar

Location: Hall C (Ernest N. Morial Convention Center)

Sustainable conversion of carbon dioxide and methane via a thermochemical cyclic redox scheme

(4001135)

DIVISION: ENFL

Presenter(s): Sherafghan Iftikhar

Location: Hall C (Ernest N. Morial Convention Center)

Sustainable direct alkaline seawater electrolysis via electrolyte manipulation

(3995760)

DIVISION: ENFL

Presenter(s): Minghui Ning

Location: Hall C (Ernest N. Morial Convention Center)

Sustainable self-charging aqueous battery with low-temperature applications

(3981731)

DIVISION: ENFL

Presenter(s): Ying Wang

Location: Hall C (Ernest N. Morial Convention Center)

Sustainable synthesis of acrylonitrile by electrolysis

(3979415)

DIVISION: ENFL

Presenter(s): Justus Kuemper

Location: Hall C (Ernest N. Morial Convention Center)

Thermal and structural stability of electrochemical lithiated graphite battery anodes

(3979010)

DIVISION: ENFL

Presenter(s): Tobias Hoelderle

Location: Hall C (Ernest N. Morial Convention Center)

Utilization of nitrogen containing wastewater nutrients by Nannochloris eucaryotum for the generation of algal biofuels

(3992860)

DIVISION: ENFL

Presenter(s): Emily Clayton

Location: Hall C (Ernest N. Morial Convention Center)

Zeolitic imdazeolite framework derived bifunctional electrocatalysts for oxygen electrode in metal air batteries

(3979251)

DIVISION: ENFL

Presenter(s): Naseem Iqbal

Location: Hall C (Ernest N. Morial Convention Center)

ENVR

Adsorbing tobacco specific nitrosamines with efficient sorbent derived from discarded cigarette butts

(3977461)

DIVISION: ENVR

Presenter(s): Jian Hua Zhu

Location: Hall C (Ernest N. Morial Convention Center)

Alien Garden: Investigating nutrient effects on algal growth from Martian simulant regolith and terrestrial environments

(3994324)

DIVISION: ENVR

Presenter(s): Grant Dingley

Location: Hall C (Ernest N. Morial Convention Center)

Applications of biopolymers for flow assurance management in the petroleum industry

(3975919)

DIVISION: ENVR

Presenter(s): Mirza Taha Baig

Location: Hall C (Ernest N. Morial Convention Center)

Bi-MOF/BiVO₄ heterostructure photocatalyst with high surface area for the visible light-driven degradation of organic contaminants

(3992940)

DIVISION: ENVR

Presenter(s): Zubaer M. Kazi

Location: Hall C (Ernest N. Morial Convention Center)

Bioconjugation of gold nanoparticles to rare earth element binding proteins

(3996796)

DIVISION: ENVR

Presenter(s): Sierra Murrell

Location: Hall C (Ernest N. Morial Convention Center)

Bioremediation of aluminum contaminated soil using earthworm *Lumbricus terrestris* and exopolysaccharides under various pH

(3992465)

DIVISION: ENVR

Presenter(s): Olanrewaju Olafuyi

Location: Hall C (Ernest N. Morial Convention Center)

Biotechnological production of pyochelin siderophore in rare earth element enrichment

(3989024)

DIVISION: ENVR

Presenter(s): Adam Reed

Location: Hall C (Ernest N. Morial Convention Center)

Breaking down PFAS using rare earth metals

(3986078)

DIVISION: ENVR

Presenter(s): Muhammad Abbas

Location: Hall C (Ernest N. Morial Convention Center)

Characterization of gas-phase products generated from reactions between terpenes and sodium hypochlorite bleach

(3981431)

DIVISION: ENVR

Presenter(s): Callee McConnell Walsh

Location: Hall C (Ernest N. Morial Convention Center)

Degradation of hydroxyzine under solar and ultraviolet light in varying conditions

(3990728)

DIVISION: ENVR

Presenter(s): Julissa Chavana

Location: Hall C (Ernest N. Morial Convention Center)

Degradation of perfluorooctanoic acid by iron activated persulfate oxidation in the presence of Alumnina

(3990199)

DIVISION: ENVR

Presenter(s): Alexander Gustat

Location: Hall C (Ernest N. Morial Convention Center)

Derivatization method for the determination of amino acid concentrations in Arctic marine waters

(3990417)

DIVISION: ENVR

Presenter(s): Katherine Rose Mitchell

Location: Hall C (Ernest N. Morial Convention Center)

Determination of selenite and selenate in environmental waters using ion chromatography-mass spectrometry

(3984104)

DIVISION: ENVR

Presenter(s): Jingli Hu

Location: Hall C (Ernest N. Morial Convention Center)

Development of a mobile device spectroscopic analysis tool for environmental nitrate testing that supports student stewardship projects

(3996963)

DIVISION: ENVR

Presenter(s): Abigail Taylor

Location: Hall C (Ernest N. Morial Convention Center)

Development of a rapid screening method for differentiation of brominated flame retardants and brominated azobenzene disperse dyes in textiles

(3994908)

DIVISION: ENVR

Presenter(s): Alyssa Wicks

Location: Hall C (Ernest N. Morial Convention Center)

Development of porous carbons and hybrid carbons for the treatment of heavy metal contaminated industrial wastewater

(3993183)

DIVISION: ENVR

Presenter(s): Margaret Grace Lekan

Location: Hall C (Ernest N. Morial Convention Center)

Direct UV photodegradation of 6PPD and its hydrolysis product in aqueous solution

(3994506)

DIVISION: ENVR

Presenter(s): Joshua Johnson | Connor Rhodes | Patrick M Hare

Location: Hall C (Ernest N. Morial Convention Center)

Dissolving gold from wastes in alkali halide solution

(3972476)

DIVISION: ENVR

Presenter(s): Tomohide Takami

Location: Hall C (Ernest N. Morial Convention Center)

Drugs detected at rest areas and truck servicing facilities in Kentucky

(3995600)

DIVISION: ENVR

Presenter(s): Anita Sapkota

Location: Hall C (Ernest N. Morial Convention Center)

Effects of cadmium, arsenic, and lead on *Manduca sexta* exposed to lead levels found in plants growing on the Pueblo superfund site soils

(3984072)

DIVISION: ENVR

Presenter(s): Jim Carsella

Location: Hall C (Ernest N. Morial Convention Center)

Electrochemical Studies of perfluorooctanoic Acid (PFOA), perfluorooctane sulfonamide (PFOSA), and hexafluoropropylene oxide dimer Acid (HFPO-da)

(3988758)

DIVISION: ENVR

Presenter(s): Bizuneh Workie

Location: Hall C (Ernest N. Morial Convention Center)

Elucidating the selective binding mechanisms of arsenic over phosphate by Fe³⁺-chitosan: A DFT study

(3987727)

DIVISION: ENVR

Presenter(s): Obinna Nwokonkwo

Location: Hall C (Ernest N. Morial Convention Center)

Enhancing lithium extraction efficiency: Utilizing contact angle and surface energy analysis to counteract magnesium salt scaling

(3984979)

DIVISION: ENVR

Presenter(s): Qixiang Feng

Location: Hall C (Ernest N. Morial Convention Center)

Evaluating the antibacterial potential of distinct size populations of stabilized zinc nanoparticles for citrus greening disease therapeutic development

(3982435)

DIVISION: ENVR

Presenter(s): Melinda Stevens

Location: Hall C (Ernest N. Morial Convention Center)

Fate of antibiotics during phosphate recovery from synthetic swine wastewater

(3992697)

DIVISION: ENVR

Presenter(s): Nathaniel Bolujoko

Location: Hall C (Ernest N. Morial Convention Center)

Fundamental Negative Ion Spectroscopic Studies Involving Fluorene and Its Cyanofunctionalized Derivatives.

(4047626)

DIVISION: ENVR

Presenter(s): Dushmantha N. Koku Hannadige Abeysooriya
Location: Hall C (Ernest N. Morial Convention Center)

Graphene-Mediated removal of micropollutants for water security

(3991609)

DIVISION: ENVR

Presenter(s): Summer Nash

Location: Hall C (Ernest N. Morial Convention Center)

Harnessing hemp and hydrogel for environmental water restoration

(3995205)

DIVISION: ENVR

Presenter(s): Aryanna Jones

Location: Hall C (Ernest N. Morial Convention Center)

Harnessing hemp: A natural solution for PFAS removal in water

(3992593)

DIVISION: ENVR

Presenter(s): Sakiya McGhee | Saniya McGhee | Madison Ridgeway | Simone Silent

Location: Hall C (Ernest N. Morial Convention Center)

Heavy metal presence in the Connecticut River as a product of socioeconomic status

(3988401)

DIVISION: ENVR

Presenter(s): Sarah DeSanto

Location: Hall C (Ernest N. Morial Convention Center)

Heavy metals analysis on freshwater turtle species: Examining the effects of industry in Dalton, Georgia

(3983531)

DIVISION: ENVR

Presenter(s): Rebecca Brosky

Location: Hall C (Ernest N. Morial Convention Center)

Hexavalent chromium (Cr(VI)) removal using nanostructured iron oxides formed by thermal and anodic oxidation

(3989572)

DIVISION: ENVR

Presenter(s): Wai Kian Tan

Location: Hall C (Ernest N. Morial Convention Center)

High resolution mass spectrometry for analysis of emerging per- and polyfluoroalkyl substances (PFAS) in precipitation from the Midwestern United

States: A multi-year study

(3988874)

DIVISION: ENVR

Presenter(s): Yubin Kim

Location: Hall C (Ernest N. Morial Convention Center)

High-pressure ceramic nanofiltration: A novel and effective method for the recovery of dissolved organic carbon from natural waters

(3995106)

DIVISION: ENVR

Presenter(s): Kali Pate | Collin P Ward

Location: Hall C (Ernest N. Morial Convention Center)

Impacts of temperature on the Assembly of dissolved effluent organic matter (dEfOM)

(3993188)

DIVISION: ENVR

Presenter(s): Hsiao-Ming Chang

Location: Hall C (Ernest N. Morial Convention Center)

Improving the photodecomposition of penicillin V potassium using Mn-doped Tin sulfide nanoparticles

(3995833)

DIVISION: ENVR

Presenter(s): Josue Colon Dedos

Location: Hall C (Ernest N. Morial Convention Center)

Insight into the adsorption of per- and polyfluoroalkyl sulfonates in soil minerals

(3980105)

DIVISION: ENVR

Presenter(s): Mary K O'Reilly

Location: Hall C (Ernest N. Morial Convention Center)

Investigating growth competition of Chlorella, Spirulina, and Scenedesmus growth competition in wastewater containing varying concentrations of nitrogen and phosphorus

(3994456)

DIVISION: ENVR

Presenter(s): Gabriella Miranda

Location: Hall C (Ernest N. Morial Convention Center)

Investigation of PFAS adsorption onto aquifer materials: the important role of dolomite

(3989440)

DIVISION: ENVR

Presenter(s): Yanan Zhao

Location: Hall C (Ernest N. Morial Convention Center)

Iron mediated oxidative photodegradation of perfluorobutanoic acid by sulfate radical anion

(3999511)

DIVISION: ENVR

Presenter(s): Hanna Tetu

Location: Hall C (Ernest N. Morial Convention Center)

Low-cost adsorbents and fertilizers for phosphate adsorption and nutrient delivery

(3997368)

DIVISION: ENVR

Presenter(s): Hannah Hyland

Location: Hall C (Ernest N. Morial Convention Center)

Making electrochemical water treatment technology economical by setting the parameters dynamically: A machine learning approach

(3987279)

DIVISION: ENVR

Presenter(s): Vignesh Vinayagam

Location: Hall C (Ernest N. Morial Convention Center)

Marine microbial importance to oceanic carbon export determined through compound specific isotope and enantiomer analyses

(4042533)

DIVISION: ENVR

Presenter(s): Paul K Wojtal

Location: Hall C (Ernest N. Morial Convention Center)

Metagenomic approach to eDNA

(3997607)

DIVISION: ENVR

Presenter(s): Stephanie Quintanilla | Mercedes Barker

Location: Hall C (Ernest N. Morial Convention Center)

Microbially mediated redox cycling of Fe(III)/Fe(II) in soils

(3986725)

DIVISION: ENVR

Presenter(s): Danner Luke Keeton

Location: Hall C (Ernest N. Morial Convention Center)

Microplastic identification in rural north central Arkansas' water sources

(3992236)

DIVISION: ENVR

Presenter(s): Braden L. Glenn

Location: Hall C (Ernest N. Morial Convention Center)

New psychoactive substances detected in municipal wastewater and interstate highway rest areas

(3995289)

DIVISION: ENVR

Presenter(s): Durga Prasad Kodati

Location: Hall C (Ernest N. Morial Convention Center)

Observations of atmospheric chemical composition in New York City and New Haven, CT during the AEROMMA campaign

(3973024)

DIVISION: ENVR

Presenter(s): Mitchell Alton

Location: Hall C (Ernest N. Morial Convention Center)

Optimization of alginate beads for controlled release in environmental applications: A rational statistical approach

(3991220)

DIVISION: ENVR

Presenter(s): Payagala Udawattage Ashvin Iresh Fernando | Alan Kennedy | Gilbert Kosgei

Location: Hall C (Ernest N. Morial Convention Center)

Oxidation of CH_3SO_2^- by $[\text{IrCl}_6]^{2-}$ and $\text{E}^\circ(\text{CH}_3\text{SO}_2^\bullet/\text{CH}_3\text{SO}_2^-)$

(3987604)

DIVISION: ENVR

Presenter(s): David M Stanbury

Location: Hall C (Ernest N. Morial Convention Center)

Penguin feathers as ecological indicators of regional and historical per- and polyfluoroalkyl substances (PFAS) exposure

(3994432)

DIVISION: ENVR

Presenter(s): Matthew Badia

Location: Hall C (Ernest N. Morial Convention Center)

PFAS concentration and accumulation history in Jordan Lake sediments

(3997185)

DIVISION: ENVR

Presenter(s): Nadia Sheppard
Location: Hall C (Ernest N. Morial Convention Center)

Photochemical formation of hydroxyl radicals by petroleum products

(3986719)
DIVISION: ENVR

Presenter(s): Kayla Spencer
Location: Hall C (Ernest N. Morial Convention Center)

Photodegradation of common cyanotoxins across the freshwater to marine continuum

(3996792)
DIVISION: ENVR

Presenter(s): Adam R Wronski
Location: Hall C (Ernest N. Morial Convention Center)

Polymer functionalized Cu(BTC) metal-organic frameworks for chemical sensing applications

(3991828)
DIVISION: ENVR

Presenter(s): Sarah Clouse
Location: Hall C (Ernest N. Morial Convention Center)

Portable 3D printed spectrofluorimeter for quantification of contaminants of emerging concern (CECs)

(3990531)
DIVISION: ENVR

Presenter(s): Noah Herried
Location: Hall C (Ernest N. Morial Convention Center)

Production of singlet oxygen by aqueous extracts of biomass-burning aerosol

(3982493)
DIVISION: ENVR

Presenter(s): Daniel Bonomo
Location: Hall C (Ernest N. Morial Convention Center)

Prospects and challenges of utilizing sugarcane bagasse as a bio-coagulant precursor for water treatment

(3987209)
DIVISION: ENVR

Presenter(s): Abel Ujaigbe Egbemhenghe
Location: Hall C (Ernest N. Morial Convention Center)

Pyrolyzed FexOy–N@Z5 Composite as an Efficient Non-precious Metal Catalyst for elective catalytic oxidation of triethylamine and mechanism investigation

(3980404)

DIVISION: ENVR

Presenter(s): Lingwu Meng

Location: Hall C (Ernest N. Morial Convention Center)

Review of scientific literature on available methods of assessing organochlorine pesticides in the environment

(3993201)

DIVISION: ENVR

Presenter(s): Chinemerem Ruth Ohoro

Location: Hall C (Ernest N. Morial Convention Center)

Scalable biosorption of Rare Earth Elements using bacillus subtilis spores

(3995773)

DIVISION: ENVR

Presenter(s): Connor Clark

Location: Hall C (Ernest N. Morial Convention Center)

Seasonal production of oleuropein in white fringe trees

(3995420)

DIVISION: ENVR

Presenter(s): Madeline Pawlak

Location: Hall C (Ernest N. Morial Convention Center)

Single droplet study of the sea spray aerosol that contains the mercuric halides by using optical trapping - Raman spectroscopy

(3990629)

DIVISION: ENVR

Presenter(s): Yukai Ai

Location: Hall C (Ernest N. Morial Convention Center)

Studying a chemical approach for targeted mitigation of Florida red tide

(3995433)

DIVISION: ENVR

Presenter(s): Md-Istiaq Hossain

Location: Hall C (Ernest N. Morial Convention Center)

Submarine groundwater dissolved organic matter characteristics along salinity gradients in a shallow, mid-Atlantic, USA coastal embayment

(3980781)

DIVISION: ENVR

Presenter(s): Tianyin Ouyang
Location: Hall C (Ernest N. Morial Convention Center)

Synthesis of CaS nanoparticle gels for removal of Pb²⁺ and Cd²⁺ via cation exchange

(3995830)
DIVISION: ENVR
Presenter(s): Md Masudur Rhaman
Location: Hall C (Ernest N. Morial Convention Center)

Toward a chemical tracer for fish feces in the biological pump: Amino acid-specific nitrogen isotope analysis of mesopelagic fish hindgut contents

(3999225)
DIVISION: ENVR
Presenter(s): Grace Coyne
Location: Hall C (Ernest N. Morial Convention Center)

Transesterfication of recycled cooking oil for green biodiesel production

(3996986)
DIVISION: ENVR
Presenter(s): Joseph Katavitch
Location: Hall C (Ernest N. Morial Convention Center)

Urban measurements of gas-phase organic compounds to examine the prevalence and dynamics of highly functionalized gas-phase compounds

(3992287)
DIVISION: ENVR
Presenter(s): Jo E Machesky
Location: Hall C (Ernest N. Morial Convention Center)

Using designed proteins for chromatographic separation of rare earth elements

(3996157)
DIVISION: ENVR
Presenter(s): Paata Burnadze
Location: Hall C (Ernest N. Morial Convention Center)

Using machine learning to predict antimicrobial resistance in water-derived E. coli

(3988409)
DIVISION: ENVR
Presenter(s): Clay Ihle
Location: Hall C (Ernest N. Morial Convention Center)

Water reuse case studies from across the world

(3993179)

DIVISION: ENVR

Presenter(s): Mohd Faraz Khan

Location: Hall C (Ernest N. Morial Convention Center)

FLUO

Adventures in fluorocage chemistry: From a "simple" hydrocarbon cage toward novel fluorinated Janus-face compounds

(3978972)

DIVISION: FLUO

Presenter(s): Alyssa Fediuk

Location: Hall C (Ernest N. Morial Convention Center)

Selective preparations of bridgehead-fluorinated cage compounds

(3991288)

DIVISION: FLUO

Presenter(s): Jamie Thuan

Location: Hall C (Ernest N. Morial Convention Center)

GEOC

^{14}C and $\delta^{13}\text{C}$ determination of dissolved organic carbon in brackish solutions and natural marine surface waters

(3996023)

DIVISION: GEOC

Presenter(s): Rolando Alvarez

Location: Hall C (Ernest N. Morial Convention Center)

Biogenic processes controlling net methane emissions in wetlands

(3997392)

DIVISION: GEOC

Presenter(s): Gabrielle Esche Stevens

Location: Hall C (Ernest N. Morial Convention Center)

Calcite dissolution as a function of varying Ca:CO₃

(3993772)

DIVISION: GEOC

Presenter(s): Tasfia Zaman

Location: Hall C (Ernest N. Morial Convention Center)

Celestite dissolution rates in nonstoichiometric solutions

(3993911)

DIVISION: GEOC

Presenter(s): Logan Clements

Location: Hall C (Ernest N. Morial Convention Center)

Elastic properties of geochemically treated polypropylene geosynthetic clay liners at high stress and elevated temperatures

(3997697)

DIVISION: GEOC

Presenter(s): S A K V Miyurudarshi Piyathilake

Location: Virtual Session (Virtual Only)

Impacts of incorporated Fe on hydration and carbonation reactions on the MgO (100) surface

(3993691)

DIVISION: GEOC

Presenter(s): Gabriela Camacho

Location: Hall C (Ernest N. Morial Convention Center)

Implication of machine learning based reactive-transport simulation model to predict trapping mechanisms on CO₂ sequestration in deep saline aquifers

(3990874)

DIVISION: GEOC

Presenter(s): Md Irfan Khan | Aaditya Khanal

Location: Hall C (Ernest N. Morial Convention Center)

Investigation of dissolution trapping in heterogeneous subsurface porous media

(3984102)

DIVISION: GEOC

Presenter(s): Md Fahim Shahriar | Aaditya Khanal

Location: Hall C (Ernest N. Morial Convention Center)

Speciation of vanadium in sulfidic and polysulfidic waters

(3995530)

DIVISION: GEOC

Presenter(s): Randi Libin-Straub | Troy Springis | Rachel Fischer | Dylan Bimberg

Location: Hall C (Ernest N. Morial Convention Center)

Spectroscopic tracking of the dissolved organic carbon conversion to carbon dioxide in freshwater using UV irradiation for ¹⁴C and ^δ¹³C determination: a South Florida case study

(3995651)

DIVISION: GEOC

Presenter(s): Elizabeth Brizuela

Location: Hall C (Ernest N. Morial Convention Center)

Study of iodine distribution and concentrations in western Oklahoma brine waters and recycling of used chloroform

(3999117)

DIVISION: GEOC

Presenter(s): Jason R Wickham

Location: Hall C (Ernest N. Morial Convention Center)

Understanding CO₂ mineralization and dissolution in deep saline aquifers: Exploring the impact of rock-fluid interaction on geophysical properties

(3988203)

DIVISION: GEOC

Presenter(s): Aaditya Khanal

Location: Hall C (Ernest N. Morial Convention Center)

HIST

Development of 4-hexylresorcinol as an antiseptic

(3995429)

DIVISION: HIST

Presenter(s): Alice Haddy

Location: Hall C (Ernest N. Morial Convention Center)

Development of scientific enquiry: Alchemy, witchcraft, phlogiston, and nuclear bombs

(3997653)

DIVISION: HIST

Presenter(s): Abigail H Shelton

Location: Hall C (Ernest N. Morial Convention Center)

Die chemie ist schwierig: Winkler and the discovery of germanium

(3991409)

DIVISION: HIST

Presenter(s): Charles Scott Weinert

Location: Hall C (Ernest N. Morial Convention Center)

Dr. Henry Eyring and Dr. Taikyue Ree's collaboration and contribution to the chemistry of South Korea and the United States

(3997482)

DIVISION: HIST

Presenter(s): Choon Ho Do
Location: Hall C (Ernest N. Morial Convention Center)

Energetics analysis of medieval black powder

(4000350)
DIVISION: HIST
Presenter(s): Dawn Elizabeth Walla Riegner
Location: Hall C (Ernest N. Morial Convention Center)

Generating and analyzing natural paints

(3995904)
DIVISION: HIST
Presenter(s): Anna Lamm | Amy Millsap
Location: Hall C (Ernest N. Morial Convention Center)

Kuhnian revolution in chemistry

(3983414)
DIVISION: HIST
Presenter(s): Benjamin Wicker
Location: Hall C (Ernest N. Morial Convention Center)

New London, Texas school explosion of 1937: History and legacy

(3981153)
DIVISION: HIST
Presenter(s): Evan Terrell
Location: Hall C (Ernest N. Morial Convention Center)

Primo Levi's undergraduate thesis on Walden inversion

(3985455)
DIVISION: HIST
Presenter(s): Bart Evan Kahr
Location: Hall C (Ernest N. Morial Convention Center)

Role of music in major discoveries in the history of chemistry

(3990627)
DIVISION: HIST
Presenter(s): Timothy J Fuhrer
Location: Hall C (Ernest N. Morial Convention Center)

I&EC

Aggregation-induced emission (AIE) organic metal halide complex scintillators

(3992679)
DIVISION: I&EC

Presenter(s): Tunde Blessed Shonde
Location: Hall C (Ernest N. Morial Convention Center)

Analysis of droplets from stain deposits on chemically coated cards

(3981857)
DIVISION: I&EC
Presenter(s): Aaron Gieder
Location: Hall C (Ernest N. Morial Convention Center)

Comparison of FPX66, HP20, Hp2mgl, SP70, SP207, SP700, Sp825l, and SP850 polymeric resins for extraction of phenolic antioxidants from aronia mitschurinii

(3992539)
DIVISION: I&EC
Presenter(s): Ezra Cable
Location: Hall C (Ernest N. Morial Convention Center)

Development of red cyanine dyes including a substituent with two methacrylate groups for color filters of virtual and augmented reality displays

(3977104)
DIVISION: I&EC
Presenter(s): Woosung Lee | Young Ki Park
Location: Hall C (Ernest N. Morial Convention Center)

Enhancing oil recovery yield for in-situ upgrading of oil shale: bridging the gap from laboratory to on-site exploration

(3990885)
DIVISION: I&EC
Presenter(s): Xianglong Meng
Location: Hall C (Ernest N. Morial Convention Center)

Experimental and computational investigation of fluid flow and solid transport in split-and-recombine oscillatory flow reactors for organic chemistry in water

(3984659)
DIVISION: I&EC
Presenter(s): Filippo Nanto
Location: Hall C (Ernest N. Morial Convention Center)

Facile production of (+)-aristolochene and (+)-bicyclogermacrene in escherichia coli using newly discovered sesquiterpene synthases from penicillium expansum

(3976791)
DIVISION: I&EC
Presenter(s): Zhengyu Huang
Location: Virtual Session (Virtual Only)

Low-temperature hydrogen reduction of iron oxide (Fe₂O₃) using non-reducible support and palladium (Pd)

(3991990)

DIVISION: I&EC

Presenter(s): Park Junhyeok | MinJae Kim | KyungJun Lee

Location: Hall C (Ernest N. Morial Convention Center)

Miscibility assessment of compressor oils with low GWP next-generation refrigerants for enhanced sustainability Endeavors in HVAC systems

(3995103)

DIVISION: I&EC

Presenter(s): Andrea Hernandez Irias

Location: Hall C (Ernest N. Morial Convention Center)

Next-Gen bionic cantilever sensors: Enhancing sensitivity and range inspired by scorpion trichobothria

(3994358)

DIVISION: I&EC

Presenter(s): Changchao Zhang

Location: Virtual Session (Virtual Only)

Quantitative cathodoluminescence mapping to determine Cdmgsete compositional variation

(3985930)

DIVISION: I&EC

Presenter(s): Melissa Wunch

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis, properties and application of choline Chloride+diethylene glycol deep eutectic solvent in drilling mud

(3979028)

DIVISION: I&EC

Presenter(s): Mehrane Kermani nejad | Kamran Zohreie

Location: Virtual Session (Virtual Only)

Unlocking potential of interfacial assembly: Universal fabrication method for aerogel beads

(3991295)

DIVISION: I&EC

Presenter(s): Mahyar Panahi-Sarmad

Location: Hall C (Ernest N. Morial Convention Center)

Unrevealing the role of pyrochlore $A_2Ce_2O_7(La^{3+}, Pr^{3+}, Sm^{3+})$ carrier with different A site on supported Rh catalysts for n-hexadecane steam reforming performance

(3991525)

DIVISION: I&EC

Presenter(s): Shuang Li | Yixiang Shi

Location: Hall C (Ernest N. Morial Convention Center)

Water filtration using glass sand

(3995964)

DIVISION: I&EC

Presenter(s): Shehbaz Ahmad

Location: Hall C (Ernest N. Morial Convention Center)

INOR

Altering product selectivity for Ru-based CO₂ reduction catalysts

(3994816)

DIVISION: INOR

Presenter(s): Benjamin Dwyer

Location: Hall C (Ernest N. Morial Convention Center)

Assessing state-interaction error in zero field splitting for actinide complexes

(3987291)

DIVISION: INOR

Presenter(s): Nathan Roy Loutsch

Location: Hall C (Ernest N. Morial Convention Center)

Discovery of new catalysts for epoxide hydrogenolysis

(3990493)

DIVISION: INOR

Presenter(s): Jiayi Liu | Ryder Lathrop

Location: Hall C (Ernest N. Morial Convention Center)

Epoxide hydrogenolysis without product racemization

(3990251)

DIVISION: INOR

Presenter(s): Diane Kim | Abigail Bonino

Location: Hall C (Ernest N. Morial Convention Center)

Exploring metastable bimetallic phosphide catalysts via cation exchange for renewable hydrogen production: A promising path to sustainable energy

(3988763)

DIVISION: INOR

Presenter(s): Faria Sultana
Location: Hall C (Ernest N. Morial Convention Center)

High temperature reactions of Os₃(CO)₁₂ with benzotriazole and 1,2,3-triazole

(3996322)

DIVISION: INOR

Presenter(s): Emily E Osborn
Location: Hall C (Ernest N. Morial Convention Center)

High Voltage Composite Solid-State Cathode

(3997662)

DIVISION: INOR

Presenter(s): Lamartine Meda
Location: Hall C (Ernest N. Morial Convention Center)

Incorporating active Cu sites on rare-earth metal-organic frameworks for catalytic CO₂ conversion

(3985608)

DIVISION: INOR

Presenter(s): Raphael Angelo Reyes
Location: Hall C (Ernest N. Morial Convention Center)

Investigating iron and manganese thiospinels as catalysts for CO₂ reduction reactions

(3995672)

DIVISION: INOR

Presenter(s): Annabelle Claire Hannah
Location: Hall C (Ernest N. Morial Convention Center)

IONiC VIPER: When the snakes come marching in

(3980171)

DIVISION: INOR

Presenter(s): Chip Nataro
Location: Hall C (Ernest N. Morial Convention Center)

Iron oxide mediated solar decoupled electrolysis cycle

(3994362)

DIVISION: INOR

Presenter(s): Sarah Hill
Location: Hall C (Ernest N. Morial Convention Center)

Isolation of organic dyes in the pores of metal organic frameworks for protection from photodegradation

(3995197)

DIVISION: INOR

Presenter(s): Christopher Breshike

Location: Hall C (Ernest N. Morial Convention Center)

Molecular lanthanide superoxos of samarium, europium, thulium, and ytterbium

(3995162)

DIVISION: INOR

Presenter(s): Ian Bartlett

Location: Hall C (Ernest N. Morial Convention Center)

New electrochemistry for a clean energy future: Progress towards safe, environmentally sustainable non-topotactic batteries based on manganese oxide

(4003598)

DIVISION: INOR

Presenter(s): Kenneth J Takeuchi | Amy C Marschilok

Location: Hall C (Ernest N. Morial Convention Center)

Organometallic cyclopentadienyl pyridazines, oxazines, and thiophenes and their applications in energy and advanced electronics

(3991114)

DIVISION: INOR

Presenter(s): Nathan C Tice

Location: Hall C (Ernest N. Morial Convention Center)

Photo- and electrocatalytic activity of an Fe(III) complex containing a chelating antipyrine ligand for the hydrogen evolution reaction

(3995492)

DIVISION: INOR

Presenter(s): Amanda C Mitchell

Location: Hall C (Ernest N. Morial Convention Center)

Photoinduced charge generation of host-guest MOF-fullerene systems as colloidal suspensions

(3988886)

DIVISION: INOR

Presenter(s): Alison Arissa

Location: Hall C (Ernest N. Morial Convention Center)

Probing the regioselectivity of nickel-catalyzed direct C-H arylation

(3989086)

DIVISION: INOR

Presenter(s): Stella Kahn

Location: Hall C (Ernest N. Morial Convention Center)

Rational choice of alkali metal counterions to modulate electronic and redox properties of Ce³⁺ imidophosphorane complexes

(3991045)

DIVISION: INOR

Presenter(s): Chad Michael Studvick

Location: Hall C (Ernest N. Morial Convention Center)

Sequestered ions: An investigation of Pyclen metal chelators and the Alzheimer's brain

(3989087)

DIVISION: INOR

Presenter(s): Caroline Rae Crittall

Location: Hall C (Ernest N. Morial Convention Center)

Silicon based negative electrodes: Progress towards high energy density secondary batteries

(4003589)

DIVISION: INOR

Presenter(s): Edelmy Marin Bernardez

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis and characterization of a Zn(II) complex containing a chelating antipyrine ligand

(3995705)

DIVISION: INOR

Presenter(s): Nicole A Fritsch

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis of a series of Cu bis(aryl)acenaphthenequinone diimine complexes

(3995016)

DIVISION: INOR

Presenter(s): Daniel A Lopez-Espinosa

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis of photoactive manganese compounds with carbene ligands

(3997319)

DIVISION: INOR

Presenter(s): William Tocco | Mirella Villani

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis of tripodal, multidentate CMPO compounds with long alkyl chains for f-element extractions

(3987636)

DIVISION: INOR

Presenter(s): Brianna M Gordon | Nancy A Martinez

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis, photophysical, and solid-state characterization of luminescent lanthanide ion complexes with phenanthroline-based ligands

(3994029)

DIVISION: INOR

Presenter(s): Audrey Stemen

Location: Hall C (Ernest N. Morial Convention Center)

Synthetic access to the Cuc site of particulate methane monooxygenase using peptide frameworks

(3977209)

DIVISION: INOR

Presenter(s): Ronnie Richardson-Matthews

Location: Hall C (Ernest N. Morial Convention Center)

Templated bifunctional acid–base pairs in metal–organic framework pores for cooperative catalysis

(3988049)

DIVISION: INOR

Presenter(s): Devin Rollins

Location: Hall C (Ernest N. Morial Convention Center)

MEDI

Biological characterization of small molecule eIF4E inhibitors to assess their therapeutic potential in cancer

(3987526)

DIVISION: MEDI

Presenter(s): Rachel O'Rourke

Location: Hall C (Ernest N. Morial Convention Center)

Borrowing transcriptional kinases using chemically induced proximity

(3994612)

DIVISION: MEDI

Presenter(s): Basel Karim
Location: Hall C (Ernest N. Morial Convention Center)

Chemoproteomic-enabled identification of covalent modulators of KEAP1

(3996081)
DIVISION: MEDI

Presenter(s): David S. Weinstein
Location: Hall C (Ernest N. Morial Convention Center)

Design and evaluation of new linkers in PROTACs

(3989615)
DIVISION: MEDI

Presenter(s): Jessica Plescia
Location: Hall C (Ernest N. Morial Convention Center)

Design and synthesis of N6-Hydroxyadenosine analogues as potential antiviral agents

(3980534)
DIVISION: MEDI

Presenter(s): Qi Chen | Thomas Clark | Jenna Persson
Location: Hall C (Ernest N. Morial Convention Center)

Discovery of ASTT-06, a potent type 1 allosteric trapper of Poly (ADP-ribose) polymerase 1 (PARP1) for improved cancer treatment

(3988979)
DIVISION: MEDI

Presenter(s): Tanaji T Talele
Location: Hall C (Ernest N. Morial Convention Center)

Discovery of DS-9300: a highly potent, selective, and once-daily oral EP300/CBP histone acetyltransferase inhibitor

(3975197)
DIVISION: MEDI

Presenter(s): Ryutaro Kanada
Location: Hall C (Ernest N. Morial Convention Center)

Exploring novel 1,2, 3-triazolium salts as potential biological agents

(3988202)
DIVISION: MEDI

Presenter(s): Lance Crane | Jeremy Byrom
Location: Hall C (Ernest N. Morial Convention Center)

Improving 3-HPT as a HDAC6 isoform selective inhibitor

(3978232)

DIVISION: MEDI

Presenter(s): Ryan Kern

Location: Hall C (Ernest N. Morial Convention Center)

Inorganic/organic nanocomposite particle (I/O-NP) tracer design for magnetic particle imaging (MPI)

(3979270)

DIVISION: MEDI

Presenter(s): Marco Giardiello

Location: Hall C (Ernest N. Morial Convention Center)

Interactions of NCS proteins with doxorubicin/paclitaxel: a potential pathway for neurotoxic side-effects of anti-cancer drugs

(3986693)

DIVISION: MEDI

Presenter(s): Md Shofiul Alam | Michael Reyes | Ezequiel Espinosa | Daniel Cuervo | Jaroslava Miksovska

Location: Hall C (Ernest N. Morial Convention Center)

Investigating PARP1/2 activity of piperazine ring surrogates and adenine-binding pocket motifs in AZD-9574

(3986061)

DIVISION: MEDI

Presenter(s): Tanaji T Talele

Location: Hall C (Ernest N. Morial Convention Center)

Mechanochemical routes towards New ethosuximide and lamotrigine formulations

(3991468)

DIVISION: MEDI

Presenter(s): Lida Aeindartehran

Location: Hall C (Ernest N. Morial Convention Center)

Modeling of broad-spectrum Virustatic and virucidal antivirals

(3997286)

DIVISION: MEDI

Presenter(s): Francesco Coppola

Location: Hall C (Ernest N. Morial Convention Center)

Optimization of anti-psychotic phenothiazines and phenoxazines as novel antifungal agents with reduced affinity towards neuroreceptors

(3988740)

DIVISION: MEDI

Presenter(s): Soumitra Guin

Location: Hall C (Ernest N. Morial Convention Center)

Rapid, selective release of biologically active AA147 for targeted treatment of ischemia-reperfusion injury

(3990344)

DIVISION: MEDI

Presenter(s): Noah Gilbertson

Location: Hall C (Ernest N. Morial Convention Center)

Reductions of food intake and body weight in diet-induced obese rats following chronic treatment with monomeric peptide multiagonists

(3988417)

DIVISION: MEDI

Presenter(s): Emily Ashlaw

Location: Hall C (Ernest N. Morial Convention Center)

Simultaneous activation of immunogenic cell death and Cgassting pathway by liver- and mitochondria-targeted gold(I) complexes for immunotherapy of hepatocellular carcinoma

(3977828)

DIVISION: MEDI

Presenter(s): Wukun Liu

Location: Virtual Session (Virtual Only)

NUCL

225Ac radiolabeling and biological studies of novel pancreatic monoclonal antibodies

(3995610)

DIVISION: NUCL

Presenter(s): Vanessa Anne Sanders

Location: Hall C (Ernest N. Morial Convention Center)

89Zr-immunoPET targeting IL13Ra2 for imaging of glioblastoma

(3986781)

DIVISION: NUCL

Presenter(s): Leah Gajecki

Location: Hall C (Ernest N. Morial Convention Center)

Covalent triazine frameworks for the separation of lanthanides and actinides

(3995952)

DIVISION: NUCL

Presenter(s): James Anthony Gaugler
Location: Hall C (Ernest N. Morial Convention Center)

Effect of gamma irradiation on efficacy of extraction chromatography materials

(3997659)

DIVISION: NUCL

Presenter(s): Rebecca Jane Mueller
Location: Hall C (Ernest N. Morial Convention Center)

Evaluation, post-elution processing, and radiolabeling of an upscaled SnO₂-based ⁴⁴Ti/⁴⁴Sc generator

(3989224)

DIVISION: NUCL

Presenter(s): Christine Elizabeth Schmidt
Location: Hall C (Ernest N. Morial Convention Center)

New approach to ⁴⁴Ti/⁴⁴Sc generator design

(3978205)

DIVISION: NUCL

Presenter(s): Shelbie Cingoranelli
Location: Hall C (Ernest N. Morial Convention Center)

o-(Sulfonamido)phenol ligands as f-element extractants for combined Cs and actinide separations in caustic high-level waste

(3989644)

DIVISION: NUCL

Presenter(s): Leigh D. Ruddock
Location: Hall C (Ernest N. Morial Convention Center)

Radiochemical synthesis of novel demyelination PET tracer [¹⁸F]5-methyl-3-fluoro-4-aminopyridine via Csp²-¹⁸F/¹⁹F exchange

(3986818)

DIVISION: NUCL

Presenter(s): Yang Sun
Location: Hall C (Ernest N. Morial Convention Center)

Radiosynthesis and evaluation of a novel ¹⁸F labeled PET ligand for imaging monoacylglycerol lipase

(3991987)

DIVISION: NUCL

Presenter(s): Yinlong Li
Location: Hall C (Ernest N. Morial Convention Center)

Synthesis of 18F-alkyl fluorides via the photoredox mediated nucleophilic radiofluorination of a novel class of precursors in radiochemistry

(3991063)

DIVISION: NUCL

Presenter(s): Sebastiano Ortalli

Location: Hall C (Ernest N. Morial Convention Center)

ORGN

“Spiro-sandwich” ligands for insertion polymerization

(3994273)

DIVISION: ORGN

Presenter(s): Wenjun Hou

Location: Hall C (Ernest N. Morial Convention Center)

A fluorescent sensor array from functionalized calixarenes and lanthanide salts for anion detection

(3996664)

DIVISION: ORGN

Presenter(s): Nicola Edwards

Location: Hall C (Ernest N. Morial Convention Center)

Applications of acetal radicals: 1-2 diol coupling

(3993837)

DIVISION: ORGN

Presenter(s): Misato Okamoto

Location: Hall C (Ernest N. Morial Convention Center)

Applications of masked acyl cyanides - bridging synthesis and computational chemistry

(3995179)

DIVISION: ORGN

Presenter(s): Julie Alana Pigza

Location: Hall C (Ernest N. Morial Convention Center)

Asymmetric Giese additions employing chiral acylammonium salts

(3998098)

DIVISION: ORGN

Presenter(s): Kristiana L Kasper

Location: Hall C (Ernest N. Morial Convention Center)

Benzylic amination by Ritter-type reaction via Mesolytic cleavage

(3994788)

DIVISION: ORGN

Presenter(s): Justin Alvarez

Location: Hall C (Ernest N. Morial Convention Center)

C(sp³) - C(sp³) bond formations and macrocyclizations via hypervalent iodine reagents

(3997041)

DIVISION: ORGN

Presenter(s): Joshua G Tavaraz

Location: Hall C (Ernest N. Morial Convention Center)

Carbon-carbon bond activation: Optimization and investigation of exchange-decarbonylation reaction of diortho-fluoro pyridyl ketone with boronic acids

(3989633)

DIVISION: ORGN

Presenter(s): Therese A Joffre

Location: Hall C (Ernest N. Morial Convention Center)

Catalytic reduction of pyridinium cations with metal hydrides

(3989075)

DIVISION: ORGN

Presenter(s): Jin Qian

Location: Hall C (Ernest N. Morial Convention Center)

Cocrystallization by halogen bonding to heterocyclic π -systems

(3994382)

DIVISION: ORGN

Presenter(s): Toni Sera Spilfogel

Location: Hall C (Ernest N. Morial Convention Center)

Computational analysis of C-tail functionalized pyrogallol[4]arenes and resorcin[4]arenes as models for future host-guest investigations

(3984503)

DIVISION: ORGN

Presenter(s): Olivia K Meyer

Location: Hall C (Ernest N. Morial Convention Center)

Computational studies of iron-catalyzed α -amination of carboxylic acids

(3993026)

DIVISION: ORGN

Presenter(s): Marisa Ih

Location: Hall C (Ernest N. Morial Convention Center)

Conical carbon nanobelts: Exploring new rigid connectivity in large tubularenes

(3988213)

DIVISION: ORGN

Presenter(s): Mohammad Bilal

Location: Hall C (Ernest N. Morial Convention Center)

Conversion of levulinic acid to γ -valerolactone using an iridium nanocomposite under mild conditions

(3997348)

DIVISION: ORGN

Presenter(s): Marisa Spengeman

Location: Hall C (Ernest N. Morial Convention Center)

Design and application of palladium-acyl precatalysts for use in amination reactions with aryl chlorides

(3989048)

DIVISION: ORGN

Presenter(s): Makynna Rose Koper

Location: Hall C (Ernest N. Morial Convention Center)

Design of novel sustainable pathways for the synthesis of the key intermediates of nirmatrelvir

(3979104)

DIVISION: ORGN

Presenter(s): David Daggett

Location: Hall C (Ernest N. Morial Convention Center)

Developing a novel Napyradiomycin synthesis by employing newly established biomimetic haliranium-induced polyene cyclizations

(3982833)

DIVISION: ORGN

Presenter(s): Martin Kretzschmar

Location: Hall C (Ernest N. Morial Convention Center)

Development & scope of the microwave-assisted anti-Markovnikov Hydrosulfonamidation of 2-Vinylpyridine derivatives

(3991103)

DIVISION: ORGN

Presenter(s): Danielle L. Jacobs

Location: Hall C (Ernest N. Morial Convention Center)

Diastereoselective reduction of sulfinamides using Schwartz reagent

(3991104)

DIVISION: ORGN

Presenter(s): Athenea Aloiau | Bri Bobek | Kelly Pearson

Location: Hall C (Ernest N. Morial Convention Center)

Directed evolution of cytochrome P450 towards biocatalysts in natural product synthesis

(3989744)

DIVISION: ORGN

Presenter(s): Schaelee Christine Guy

Location: Hall C (Ernest N. Morial Convention Center)

Discovering new chemical pathways for the synthesis of complex carbacycles

(3986173)

DIVISION: ORGN

Presenter(s): Gustavo Moura-Letts

Location: Hall C (Ernest N. Morial Convention Center)

Diversifying Birch reaction quaternary center synthesis via nucleophilic aromatic substitution reactions or decarboxylative cross coupling

(3985559)

DIVISION: ORGN

Presenter(s): Lana Giha

Location: Hall C (Ernest N. Morial Convention Center)

DNA-templated click chemistry for the synthesis of functional mini-proteins

(3976872)

DIVISION: ORGN

Presenter(s): Md Al-Amin

Location: Hall C (Ernest N. Morial Convention Center)

Efforts toward the total synthesis of Balgacyclamide C

(3990745)

DIVISION: ORGN

Presenter(s): Meghan Hope Rice

Location: Hall C (Ernest N. Morial Convention Center)

Electrochemical reduction of CO₂ into different useful products by using Mxene-based catalysts: Advances, challenges, and future prospects

(3976084)

DIVISION: ORGN

Presenter(s): Samia Arain

Location: Hall C (Ernest N. Morial Convention Center)

Enantioselective Mannich reactions of ketones catalyzed by new 1,3-diamine-derived catalysts

(3976783)

DIVISION: ORGN

Presenter(s): James Osborne

Location: Hall C (Ernest N. Morial Convention Center)

Evolving biocatalysts for the enantioselective synthesis of spirocycles

(3981877)

DIVISION: ORGN

Presenter(s): Catherine Ko

Location: Hall C (Ernest N. Morial Convention Center)

Examining the effect of aromatic substituents in peptoid catalysts of stereoselective trifluoromethylation

(3993542)

DIVISION: ORGN

Presenter(s): Daniel Chi

Location: Hall C (Ernest N. Morial Convention Center)

Exploring new methods for redox gold catalysis

(3979516)

DIVISION: ORGN

Presenter(s): Grace Boden

Location: Hall C (Ernest N. Morial Convention Center)

Exploring the effectiveness of directing groups for rhodium-catalyzed decarbonylation

(3988731)

DIVISION: ORGN

Presenter(s): Bryan Forrest

Location: Hall C (Ernest N. Morial Convention Center)

Free-alcohol-directed C(sp³)-H activation enabled by hydrogen-bond-acceptor ligands

(3985651)

DIVISION: ORGN

Presenter(s): Chia-Yu Chen

Location: Hall C (Ernest N. Morial Convention Center)

Greening and diversifying a pyridine cyclization cascade

(3990964)

DIVISION: ORGN

Presenter(s): Tanner K Gasteazoro | Luke N Stemple

Location: Hall C (Ernest N. Morial Convention Center)

Highly efficient bimetallic palladium catalyst in the aryl amination reaction

(3996443)

DIVISION: ORGN

Presenter(s): James Corey

Location: Hall C (Ernest N. Morial Convention Center)

Investigating the borylation of indoles

(3995427)

DIVISION: ORGN

Presenter(s): Ayesha Begum

Location: Hall C (Ernest N. Morial Convention Center)

Mechanistic study of the iron-catalyzed oxidative α -amination of ketones

(3977805)

DIVISION: ORGN

Presenter(s): Nina Hollin | Gloria Parrales

Location: Hall C (Ernest N. Morial Convention Center)

Metal-catalyzed atroposelective cross-electrophile coupling of aryl halides

(3990155)

DIVISION: ORGN

Presenter(s): Lebogang Kgoadi

Location: Hall C (Ernest N. Morial Convention Center)

Metal-catalyzed synthetic approaches toward 1,2-cis-2-amino sugars

(3995355)

DIVISION: ORGN

Presenter(s): Aaliyah Alcibar

Location: Hall C (Ernest N. Morial Convention Center)

Microwave-assisted on-water green synthesis of trifluoromethylspiroindolinopyranopyrazoles

(3991649)

DIVISION: ORGN

Presenter(s): Debasish Bandyopadhyay

Location: Hall C (Ernest N. Morial Convention Center)

Mild, green acylation of carbon nucleophiles using TCFH–NMI

(3990962)

DIVISION: ORGN

Presenter(s): Sydney D Neibert

Location: Hall C (Ernest N. Morial Convention Center)

Multigram scale synthesis of Rawal's diene and its utility in oxo-Diels-Alder reaction

(3997357)

DIVISION: ORGN

Presenter(s): Dmitriy Volochnyuk

Location: Hall C (Ernest N. Morial Convention Center)

New directions for an old reaction: A Curtius rearrangement driven Dehomologation from carboxylic acids to aldehydes and ketones

(3995567)

DIVISION: ORGN

Presenter(s): Joy Odeh

Location: Hall C (Ernest N. Morial Convention Center)

New redox-active ligand for programmable catalysis

(3995058)

DIVISION: ORGN

Presenter(s): Nicholle Chew

Location: Hall C (Ernest N. Morial Convention Center)

Nonphotoredox decarboxylative cross-electrophile coupling of (hetero)aromatic bromides and NHP esters

(3983013)

DIVISION: ORGN

Presenter(s): Matthew Dowling | Simon Berritt

Location: Hall C (Ernest N. Morial Convention Center)

N-Sulfonyliminium ions as reactive intermediates for the stereochemically controlled synthesis of multi-substituted piperidines

(3996969)

DIVISION: ORGN

Presenter(s): Matthew G Donahue

Location: Hall C (Ernest N. Morial Convention Center)

Optimization and mechanistic investigation of the synthesis of unprotected, 4-substituted-1H-pyrazoles

(3997261)

DIVISION: ORGN

Presenter(s): James Ley | Gabriela Simon

Location: Hall C (Ernest N. Morial Convention Center)

Optimizing the synthesis of massiliamide, a cyclic tetrapeptide, and analogues

(3996866)

DIVISION: ORGN

Presenter(s): Saga Vallow

Location: Hall C (Ernest N. Morial Convention Center)

Origins of regioselectivity in Pd-catalyzed hydrodefluorination of gem-difluorocyclopropanes

(3991438)

DIVISION: ORGN

Presenter(s): Zachary Cheng

Location: Hall C (Ernest N. Morial Convention Center)

para-substituted methoxyphenyl carbenium: Synthesis, properties and applications

(3993074)

DIVISION: ORGN

Presenter(s): Tarek El Assaad

Location: Hall C (Ernest N. Morial Convention Center)

Photo-responsive molecular shuttles operating in lipid membranes

(3980279)

DIVISION: ORGN

Presenter(s): Udyogi Conthagamage

Location: Hall C (Ernest N. Morial Convention Center)

Polystyrene upcycling via visible light photocatalysis

(3990027)

DIVISION: ORGN

Presenter(s): Justin Zheng | William Cheung

Location: Hall C (Ernest N. Morial Convention Center)

Reagent- and catalyst-enabled borylation of C-H bonds

(3993100)

DIVISION: ORGN

Presenter(s): Kyan A D'Angelo

Location: Hall C (Ernest N. Morial Convention Center)

Structural, thermodynamic and spectral characteristics and the nature of bonding in the complexes of tetracyanoethylene with anions

(3986775)

DIVISION: ORGN

Presenter(s): Favour Ebimobere Odubo

Location: Hall C (Ernest N. Morial Convention Center)

Superacid promoted synthesis of imidazole and benzimidazole containing spirocycles

(3989826)

DIVISION: ORGN

Presenter(s): Jeffrey Ferreira

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis and conformational analysis of 26-atom macrocycles that adopt a β -sheet structure

(3989758)

DIVISION: ORGN

Presenter(s): Lola Kouretas

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis and stabilization of Spirolactams using hypervalent iodine

(3996915)

DIVISION: ORGN

Presenter(s): Samantha Meehan

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis expansion and limitations of Pyridoimidazolium cation formation using Vilsmeier Haack reagent

(3990339)

DIVISION: ORGN

Presenter(s): Abigail Faith Browning | Hunter Scott Mitchell | Abigail Grace Roberts

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis of 2-azabicyclo[2.1.0]pentane-5-carboxylic acid: A novel conformationally restricted β -proline analogue

(3996560)

DIVISION: ORGN

Presenter(s): Sergey Ryabukhin

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis of 3-chlorobenzo[b]thiophenes via copper-catalyzed electrophilic cyclization reactions

(3997600)

DIVISION: ORGN

Presenter(s): Peyton Stalcup | Georgia Ness

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis of Ariamazole, a promising benzimidazole for therapeutics

(3990510)

DIVISION: ORGN

Presenter(s): Ariana Martinez-Alamo

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis of nitrogen-containing spirocycles via superacid reactions of imines

(3990929)

DIVISION: ORGN

Presenter(s): Mariam Mutiu-Adebayo

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis of rupestines H and I

(3987988)

DIVISION: ORGN

Presenter(s): Aimee Long

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis of switchable fluorescent probes to quantify bacterial membrane potential

(3994026)

DIVISION: ORGN

Presenter(s): Jullyane Emi Matsushima

Location: Hall C (Ernest N. Morial Convention Center)

Synthesizing a carboxylate carbene

(3997321)

DIVISION: ORGN

Presenter(s): Kenna L. White

Location: Hall C (Ernest N. Morial Convention Center)

Synthesizing cyclopropenium derivatives for applications in aqueous redox flow batteries

(3979602)

DIVISION: ORGN

Presenter(s): Audrey Farrell

Location: Hall C (Ernest N. Morial Convention Center)

Synthetic efforts towards reniochalistatin E derivatives for drug delivery

(3996808)

DIVISION: ORGN

Presenter(s): Matthew Barnett

Location: Hall C (Ernest N. Morial Convention Center)

Synthetic reactions using a 3-D printed acid catalyst

(3991358)

DIVISION: ORGN

Presenter(s): Jacob Hood

Location: Hall C (Ernest N. Morial Convention Center)

Synthetic strategies towards fusicoccane diterpenoids

(3993844)

DIVISION: ORGN

Presenter(s): Doyal Trey Henderson

Location: Hall C (Ernest N. Morial Convention Center)

Synthetic studies towards the enantioselective total synthesis of (-)-Alterbrassicene B

(3999512)

DIVISION: ORGN

Presenter(s): Weston Bonnet

Location: Hall C (Ernest N. Morial Convention Center)

Thermal stability, kinetics, and anion binding capabilities of hypervalent iodine-based macrocycle

(3983108)

DIVISION: ORGN

Presenter(s): Samsul Arafin

Location: Hall C (Ernest N. Morial Convention Center)

Using a lipophilicity differential to drive cage-assisted transportation of molecular cargo across an aqueous membrane

(3991075)

DIVISION: ORGN

Presenter(s): Kristina Sandiford

Location: Hall C (Ernest N. Morial Convention Center)

Using a packed-column gas chromatograph as a fixed-bed reactor

(3996842)

DIVISION: ORGN

Presenter(s): Mark M Wilson

Location: Hall C (Ernest N. Morial Convention Center)

Versatile hydrogen isotope exchange (HIE) of aromatic compounds in microstructured, fluorinated environments

(3986353)

DIVISION: ORGN

Presenter(s): Jonathan Lebelt

Location: Hall C (Ernest N. Morial Convention Center)

PHYS

Alkane phosphonic acid self-assembled monolayers on indium-tin oxide

(3986654)

DIVISION: PHYS

Presenter(s): Emily Piner

Location: Hall C (Ernest N. Morial Convention Center)

Ambient STM visualization of self-assembled Cyclopentadienylmolybdenum(ii) tricarbonyl dimers

(3985722)

DIVISION: PHYS

Presenter(s): Yen-Chen Chen

Location: Hall C (Ernest N. Morial Convention Center)

Anthraquinone radical anions and their chlorinated derivatives: A combined solution phase Cyclic voltammetry and gas phase negative ion photoelectron spectroscopic study

(3992115)

DIVISION: PHYS

Presenter(s): Nolan White

Location: Hall C (Ernest N. Morial Convention Center)

Applying infrared spectroscopy to characterise the structure and form of pharmaceutical cocrystals

(3981393)

DIVISION: PHYS

Presenter(s): Ramandeep Singh Singh Dosanjh

Location: Hall C (Ernest N. Morial Convention Center)

Assessing modulations of molecular properties under cavity polariton formation using angle-resolved photoluminescence excitation spectroscopy

(3994095)

DIVISION: PHYS

Presenter(s): Elizabeth O Odewale

Location: Hall C (Ernest N. Morial Convention Center)

Ballistic energy transport via long alkyl chains: A new initiation mechanism

(3990569)

DIVISION: PHYS

Presenter(s): Sithara U Nawagamuwage
Location: Hall C (Ernest N. Morial Convention Center)

Binding of SO₃ to group 4 transition metal oxide nanoclusters

(3986830)
DIVISION: PHYS

Presenter(s): Nickolas Andrew Joyner
Location: Hall C (Ernest N. Morial Convention Center)

Biosorption of Cd(II) from solution using cashew (*Anacardium occidentale*) leaf: Kinetics, equilibrium, and thermodynamics

(3975526)
DIVISION: PHYS

Presenter(s): Seyi Bowale Adekoya
Location: Hall C (Ernest N. Morial Convention Center)

Blackbody infrared radiative dissociation under vibrational strong coupling

(3995779)
DIVISION: PHYS

Presenter(s): Enes Suyabatmaz
Location: Hall C (Ernest N. Morial Convention Center)

Broadband microscopic inquiry of the excited state structure function relationship in diattenuating perylene diimide materials

(3990831)
DIVISION: PHYS

Presenter(s): Skyler R Hollinbeck
Location: Hall C (Ernest N. Morial Convention Center)

Calculated aqueous reduction potentials of X, OX, and HCh radicals where X = halogen and Ch = chalcogen

(3986762)
DIVISION: PHYS

Presenter(s): Thomas Andress
Location: Hall C (Ernest N. Morial Convention Center)

CDs quantum dot gel as a direct hydrogen-atom transfer photocatalyst for c(sp³)-H functionalization

(3985880)
DIVISION: PHYS

Presenter(s): Daohua Liu
Location: Hall C (Ernest N. Morial Convention Center)

Clock microscopy: Embedding additional information in optical images of single nanoparticles

(3987543)

DIVISION: PHYS

Presenter(s): Zachary James O'Dell | Megan Knobloch

Location: Hall C (Ernest N. Morial Convention Center)

Coacervate-based plexcitonic assembly toward peroxidase-like activity and ultrasensitive glucose sensing

(3985391)

DIVISION: PHYS

Presenter(s): Shivendra Singh

Location: Hall C (Ernest N. Morial Convention Center)

Computational 2D IR spectroscopy of ester-mutated model ion channels, KcsA and NaK2K

(3983550)

DIVISION: PHYS

Presenter(s): Eshani Goonetilleke

Location: Hall C (Ernest N. Morial Convention Center)

Computational and experimental view of the photoionization of diol water clusters

(3989321)

DIVISION: PHYS

Presenter(s): Anna Wannemacher

Location: Hall C (Ernest N. Morial Convention Center)

Cutting through the noise: Extracting dynamics from ultrafast spectra using dynamic mode decomposition

(3986523)

DIVISION: PHYS

Presenter(s): Cong Xu

Location: Hall C (Ernest N. Morial Convention Center)

Dielectric properties of liquids confined in atomically thin nanochannels

(3987339)

DIVISION: PHYS

Presenter(s): Mordjann Hind Souilamas

Location: Hall C (Ernest N. Morial Convention Center)

DNA-Gemini surfactant interactions: Sequence and environmental effects

(3989046)

DIVISION: PHYS

Presenter(s): Derek Aguilar | Richard Dean Sheardy

Location: Hall C (Ernest N. Morial Convention Center)

Dynamics of the acoustic vibrations of gold nanoplates

(3984100)

DIVISION: PHYS

Presenter(s): Cameron Wright

Location: Hall C (Ernest N. Morial Convention Center)

Effect of chain length on the physiochemical properties of perfluoroalkyl substances at the surface of water

(3984497)

DIVISION: PHYS

Presenter(s): Lindsey D Jenkins

Location: Hall C (Ernest N. Morial Convention Center)

Effect of lithium salt on fluorescence quenching in glycerol: A comparison with ionic liquid/deep eutectic solvent

(3979053)

DIVISION: PHYS

Presenter(s): Manish Kumar

Location: Hall C (Ernest N. Morial Convention Center)

Enhanced chemical gating in single-molecule junctions by Fano resonance

(3987448)

DIVISION: PHYS

Presenter(s): Wanzhuo Shi

Location: Hall C (Ernest N. Morial Convention Center)

Excited-state dynamics of visible and near-IR fluorescent dyes

(3995297)

DIVISION: PHYS

Presenter(s): Nicholas Kruse

Location: Hall C (Ernest N. Morial Convention Center)

Exploring the interactions between antifreeze proteins and lipid membranes

(3983482)

DIVISION: PHYS

Presenter(s): Emily Vernon

Location: Hall C (Ernest N. Morial Convention Center)

Flicker noise analysis of single molecule break junction data shows complex oligoyne molecular wire features

(3989808)

DIVISION: PHYS

Presenter(s): James Michael Francis Morris

Location: Hall C (Ernest N. Morial Convention Center)

High-temperature alumina-hafnia nanolaminated insulators for thermionic energy conversion

(3976722)

DIVISION: PHYS

Presenter(s): Danielle Levin

Location: Hall C (Ernest N. Morial Convention Center)

Influence of electronic coupling in the proton-coupled electron transfer of Phenylenediamines

(3977524)

DIVISION: PHYS

Presenter(s): Joseph Bergen | Giovanni A Parada

Location: Hall C (Ernest N. Morial Convention Center)

Infrared spectra of carbocations in quantum fluids

(3985815)

DIVISION: PHYS

Presenter(s): Sofie Allison

Location: Hall C (Ernest N. Morial Convention Center)

Integrating quantum decoherence within Ehrenfest: A paradigm for multistate dynamics

(3990225)

DIVISION: PHYS

Presenter(s): Fangchun Liang

Location: Hall C (Ernest N. Morial Convention Center)

Investigating physical properties of disaccharide-based deep eutectic solvents

(3987906)

DIVISION: PHYS

Presenter(s): Jenna Nicole Lipani

Location: Hall C (Ernest N. Morial Convention Center)

Investigating strong coupling between silicon quantum dots and acene triplet states

(3998875)

DIVISION: PHYS

Presenter(s): Maryam Baraazandeh

Location: Hall C (Ernest N. Morial Convention Center)

Low and high frequency vibrations synergistically enhance singlet exciton fission through robust vibronic resonances

(3976786)

DIVISION: PHYS

Presenter(s): Atandrita Bhattacharyya

Location: Hall C (Ernest N. Morial Convention Center)

Low-frequency spectra of hydrated ionic liquids: Concentration dependence

(3989550)

DIVISION: PHYS

Presenter(s): Maharoo Koyakkat

Location: Hall C (Ernest N. Morial Convention Center)

Mechanism of non-Kasha fluorescence in pyrene

(3992011)

DIVISION: PHYS

Presenter(s): Sourav Majumdar

Location: Hall C (Ernest N. Morial Convention Center)

Microplastics as ice nucleating particles in the atmosphere

(3987560)

DIVISION: PHYS

Presenter(s): Heidi L Busse

Location: Hall C (Ernest N. Morial Convention Center)

Mixed micelle formation by sodium dodecylsulfate and dodecyltrimethylammonium bromide in aqueous ionic liquid media

(3980997)

DIVISION: PHYS

Presenter(s): Anjali .

Location: Hall C (Ernest N. Morial Convention Center)

Modelling extraterrestrial photopigments via density-functional theory: Importance and challenges

(3987575)

DIVISION: PHYS

Presenter(s): Dorothea Illner

Location: Hall C (Ernest N. Morial Convention Center)

Multicomponent Cholesky decomposition: Application to nuclear–electronic orbital theory

(3984693)

DIVISION: PHYS

Presenter(s): Aodong Liu

Location: Hall C (Ernest N. Morial Convention Center)

Nonadiabatic nuclear dynamics with strong light-matter interactions in quantum transport: Floquet frictional effects, Lorentz-like forces, and spin selectivity

(3980897)

DIVISION: PHYS

Presenter(s): Jingqi Chen

Location: Hall C (Ernest N. Morial Convention Center)

Observation of vibronic signatures in 2DIR of TCNQ

(3995763)

DIVISION: PHYS

Presenter(s): Ranadeb Ball

Location: Hall C (Ernest N. Morial Convention Center)

Osmotic force balance and chemical potentials: Keys to an accurate determination of osmotic pressure for monovalent ions

(3987252)

DIVISION: PHYS

Presenter(s): Alireza Hosseini

Location: Hall C (Ernest N. Morial Convention Center)

Photo-chemical dynamics with the coupled trajectories CTMQC method: Theme and variations

(3989378)

DIVISION: PHYS

Presenter(s): Evaristo Villaseco Arribas

Location: Hall C (Ernest N. Morial Convention Center)

Photooxidation driven formation of Fe-Au linked ferrocene-based single-molecule junctions

(3981093)

DIVISION: PHYS

Presenter(s): Woojung Lee

Location: Hall C (Ernest N. Morial Convention Center)

Predicting the properties of early actinide fluorides from advanced electronic structure methods

(3986804)

DIVISION: PHYS

Presenter(s): Jackson W Maxwell

Location: Hall C (Ernest N. Morial Convention Center)

Probing hydrophobic region of a lipid bilayer at specific depth using vibrational spectroscopy

(3996253)

DIVISION: PHYS

Presenter(s): Md Muhaiminul Islam

Location: Hall C (Ernest N. Morial Convention Center)

Proton tunneling in the complex of 3,4,5-trifluorobenzoic acid and formic acid

(3983666)

DIVISION: PHYS

Presenter(s): Alitza Gracia

Location: Hall C (Ernest N. Morial Convention Center)

Quantifying the role of intermolecular interactions on tunneling transport in molecular junctions

(3979729)

DIVISION: PHYS

Presenter(s): Gookyeong Jeong

Location: Hall C (Ernest N. Morial Convention Center)

Quantitative comparison of recombination rates of core/shell quantum dots in colloidal solutions and self-assembled monolayer superlattices

(3982619)

DIVISION: PHYS

Presenter(s): Rafaela Mendes Brinn

Location: Hall C (Ernest N. Morial Convention Center)

Quantum chemical and kinetic studies of gas-phase α -pinene ozonolysis with stereochemical emphasis

(3983144)

DIVISION: PHYS

Presenter(s): Clarence L Pan

Location: Hall C (Ernest N. Morial Convention Center)

Real-time mapping of transient electric dipole moments by terahertz Stark spectroscopy

(3986352)

DIVISION: PHYS

Presenter(s): Poonam Singh

Location: Hall C (Ernest N. Morial Convention Center)

Reliable and simple computational method for the characterization of complex molecular systems using IR spectroscopy

(3986582)

DIVISION: PHYS

Presenter(s): Laura X Sepulveda

Location: Hall C (Ernest N. Morial Convention Center)

Study of pyrolysis products by methods based on molecular beam and pulsed laser heating approaches

(3981009)

DIVISION: PHYS

Presenter(s): Valeriia Karpovych

Location: Hall C (Ernest N. Morial Convention Center)

Suppressing excitonic disorder using molecular cavity polariton formation

(3982218)

DIVISION: PHYS

Presenter(s): Sachithra T. Wanasinghe

Location: Hall C (Ernest N. Morial Convention Center)

Surface-enhanced Raman spectroscopy and deep learning for bacterial wastewater monitoring

(3978967)

DIVISION: PHYS

Presenter(s): Liam Kai Herndon

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis and characterization of Na-doped Zn₂GeO₄ optical fibers

(3985194)

DIVISION: PHYS

Presenter(s): Emelie Cintron

Location: Hall C (Ernest N. Morial Convention Center)

Synthesis and photophysics of highly electron-deficient porphyrin oligomers

(3985950)

DIVISION: PHYS

Presenter(s): Victoria Cinnater

Location: Hall C (Ernest N. Morial Convention Center)

Theoretical study of the gas phase reaction of OH radical with cyclopentenone derivatives

(3994892)

DIVISION: PHYS

Presenter(s): Emmanuel Ubana

Location: Hall C (Ernest N. Morial Convention Center)

Theory of chemical equilibrium under vibrational strong coupling

(3995566)

DIVISION: PHYS

Presenter(s): Kaihong Sun

Location: Hall C (Ernest N. Morial Convention Center)

Tuning electronic coupling in silicon quantum dot-molecular hybrid systems via the binding bridge for photon upconversion

(3990018)

DIVISION: PHYS

Presenter(s): Kefu Wang

Location: Hall C (Ernest N. Morial Convention Center)

Two state reactivity (TSR) and hydrogen tunneling reaction kinetics measured in the Co⁺ mediated decomposition of CH₃CHO

(3987891)

DIVISION: PHYS

Presenter(s): Tucker Lewis

Location: Hall C (Ernest N. Morial Convention Center)

Ultrafast plasmon-induced hot-electron transfer process in epitaxial noble metal-semiconductor heterostructures

(3994648)

DIVISION: PHYS

Presenter(s): Li Zhai

Location: Hall C (Ernest N. Morial Convention Center)

Understanding electron transport in metalloproteins

(3987033)

DIVISION: PHYS

Presenter(s): Jitong Ren

Location: Hall C (Ernest N. Morial Convention Center)

Unveiling the roles of nanoconfined water in enhancing interfacial reactions

(3987161)

DIVISION: PHYS

Presenter(s): Tianhao Tang

Location: Hall C (Ernest N. Morial Convention Center)

PMSE

3D printed cellulose nanocrystal coatings with infra-red reflectance: Continuous to discrete chiral films

(3996793)

DIVISION: PMSE

Presenter(s): Botyo Dimitrov

Location: Hall C (Ernest N. Morial Convention Center)

3D printed porous tantalum oxide Scaffold for orthopedic implants

(3995215)

DIVISION: PMSE

Presenter(s): Mian Sami Mudassir

Location: Hall C (Ernest N. Morial Convention Center)

Accuracy of a computational model to predict 3D printed copolymer biliary stent behavior

(3986424)

DIVISION: PMSE

Presenter(s): Ainsley Westbrook

Location: Hall C (Ernest N. Morial Convention Center)

Additive manufacturing of polymer-derived ceramics with novel thermal NIR laser stereolithography

(3982430)

DIVISION: PMSE

Presenter(s): Evelyn Wang

Location: Hall C (Ernest N. Morial Convention Center)

Advancing cartilage repair: A biomimetic approach with guar gum, chitosan, and polyether ether ketone based scaffold

(3991804)

DIVISION: PMSE

Presenter(s): Muhammad Hussain Abdullah

Location: Hall C (Ernest N. Morial Convention Center)

Aggregation Behavior of Current Doped Poly(3-hexylthiophene)

(3989717)

DIVISION: PMSE

Presenter(s): Evan Gibson

Location: Hall C (Ernest N. Morial Convention Center)

Altering the microstructure of a proton exchange membrane via manipulating its ion exchange capacity through polymer blending

(3995120)

DIVISION: PMSE

Presenter(s): Andrew White

Location: Hall C (Ernest N. Morial Convention Center)

Antimicrobial polymer-based coating against non-enveloped MS2 bacteriophage: virucidal efficiency and potential inactivation mechanism
(3991217)

DIVISION: PMSE

Presenter(s): Leslie Anne Lopez Yasis

Location: Hall C (Ernest N. Morial Convention Center)

Applying group interaction modelling: Quantitative connection between polymer structure and properties

(3989588)

DIVISION: PMSE

Presenter(s): Ke Wang

Location: Hall C (Ernest N. Morial Convention Center)

Bioactive surfaces through affinity tag protein-polymer conjugation

(3990891)

DIVISION: PMSE

Presenter(s): Alyssa Necaie

Location: Hall C (Ernest N. Morial Convention Center)

Bioinspired structural color with multi-stimuli-responsiveness by tailored chemical design and processing of core-shell polymer particles

(3989576)

DIVISION: PMSE

Presenter(s): Lukas Siegwardt

Location: Hall C (Ernest N. Morial Convention Center)

Bottlebrush polymer excipients for enhancing solubility of an oral drug

(3995163)

DIVISION: PMSE

Presenter(s): Kaylee Barr

Location: Hall C (Ernest N. Morial Convention Center)

Cardiac troponin I detection using screen printer electrodes modified with sulfonated styrene-isobutylene-styrene (SIBS) block copolymer

(3993630)

DIVISION: PMSE

Presenter(s): Raquel Feliciano Crespo

Location: Hall C (Ernest N. Morial Convention Center)

Characterization of bioluminescent silk micro/nanoparticles

(3994058)

DIVISION: PMSE

Presenter(s): Keavy Lynch

Location: Hall C (Ernest N. Morial Convention Center)

Characterization of evolving carbon structures from Bis-ortho-diyndarene (BODA)-derived polynaphthalene networks via non-isothermal TGA kinetics and pyro-GCMS

(3985544)

DIVISION: PMSE

Presenter(s): Ernesto Borrego

Location: Hall C (Ernest N. Morial Convention Center)

Composite materials made from silk and gold nanoparticles for photothermal applications

(3994547)

DIVISION: PMSE

Presenter(s): Morgan Stucky

Location: Hall C (Ernest N. Morial Convention Center)

Comprehensive analysis of epoxy resin micro-composite inks for the improvement of processability and printability in direct ink writing

(3995511)

DIVISION: PMSE

Presenter(s): Zane Smith

Location: Hall C (Ernest N. Morial Convention Center)

Computational investigation of nanoparticle agglomeration in PLA-glass/iron nanocomposites

(3983034)

DIVISION: PMSE

Presenter(s): William Angelo Pisani

Location: Hall C (Ernest N. Morial Convention Center)

Controlling material degradability through stereochemistry

(3988086)

DIVISION: PMSE

Presenter(s): Aech Gilbert Loar | Britney Baez

Location: Hall C (Ernest N. Morial Convention Center)

Core-shell hybrid filaments for 3D printing via fused filament fabrication

(3996312)

DIVISION: PMSE

Presenter(s): Bernadine Daichendt

Location: Hall C (Ernest N. Morial Convention Center)

Deep eutectic solvents utilized in high-temperature HIPE formation, stabilized with graphite/graphene

(3983132)

DIVISION: PMSE

Presenter(s): Cesar Esteban Gouveia

Location: Hall C (Ernest N. Morial Convention Center)

Delivering genes with quinine-based polymers

(3984007)

DIVISION: PMSE

Presenter(s): Punarbasu Roy

Location: Hall C (Ernest N. Morial Convention Center)

Designing a synthetic signalling pathway using Hyrogelsfd

(3991893)

DIVISION: PMSE

Presenter(s): Cooper Valentine

Location: Hall C (Ernest N. Morial Convention Center)

Design and validation of a co-polymerizable MMP inhibitor for dental adhesive applications

(3992887)

DIVISION: PMSE

Presenter(s): Matthew Logan

Location: Hall C (Ernest N. Morial Convention Center)

Designing additives to control the shear strength of a polyacrylate adhesive

(3991559)

DIVISION: PMSE

Presenter(s): Caleb D Potter

Location: Hall C (Ernest N. Morial Convention Center)

Designing robust microgels: A double network approach

(3989673)

DIVISION: PMSE

Presenter(s): Caitlyn Victoria O'Dell

Location: Hall C (Ernest N. Morial Convention Center)

Development and design of porous organic polymers for enhancing their capability for selectively carbon dioxide capture

(3991681)

DIVISION: PMSE

Presenter(s): Mahmoud Mohamed Abdelnaby

Location: Hall C (Ernest N. Morial Convention Center)

Development of a crosslinked zwitterionic-based hydrogel as a vitreous substitute with anti-fouling properties

(3988034)

DIVISION: PMSE

Presenter(s): Amine Laradji

Location: Hall C (Ernest N. Morial Convention Center)

Development of single source liquid phase precursors for HFC-SiCN ceramic mini composites with enhanced oxidation resistance

(3995134)

DIVISION: PMSE

Presenter(s): Arijit Roy

Location: Hall C (Ernest N. Morial Convention Center)

Effects of graphene-based additives on the electromagnetic properties of morphologically tailored polyurethane composite films

(3990640)

DIVISION: PMSE

Presenter(s): Zoe Lequeux

Location: Hall C (Ernest N. Morial Convention Center)

Electrophoretically deposited TiO₂-containing pectin smart and corrosion-resistant composite coatings

(3990173)

DIVISION: PMSE

Presenter(s): Marcel Roy Domalanta

Location: Hall C (Ernest N. Morial Convention Center)

Electropolymerized organic mixed ionic-electronic conductors

(3991347)

DIVISION: PMSE

Presenter(s): Arnel Besic

Location: Hall C (Ernest N. Morial Convention Center)

Electrospinning of polycarbodiimide fibers from pyridine and dichloroethane stocks

(3992567)

DIVISION: PMSE

Presenter(s): Oleg V. Kulikov

Location: Hall C (Ernest N. Morial Convention Center)

Elucidation of the effect of polymer architecture on targeting ligand presentation in nucleic acid delivery vehicles

(3993861)

DIVISION: PMSE

Presenter(s): Anthony Radka

Location: Hall C (Ernest N. Morial Convention Center)

Engineered chirality inversion of light in helicoidal biocomposite thin films

(3992395)

DIVISION: PMSE

Presenter(s): Daria Bukharina

Location: Hall C (Ernest N. Morial Convention Center)

Enhancing cancer therapy: Nir responsive drug delivery via silica coated gold nanorods incorporating thermoresponsive polymer coating

(3983336)

DIVISION: PMSE

Presenter(s): Rizul Gautam

Location: Hall C (Ernest N. Morial Convention Center)

Enhancing selective copper recovery with chelating group functionalized membranes

(3990979)

DIVISION: PMSE

Presenter(s): Fiona Chen

Location: Hall C (Ernest N. Morial Convention Center)

Enhancing the mechanical properties of poly(styrene-butadiene-styrene) with layered double hydroxide nanoparticles through varied coating techniques

(3987753)

DIVISION: PMSE

Presenter(s): Jason Daniel Pulla

Location: Hall C (Ernest N. Morial Convention Center)

Evaluation of polyethylene glycol dimethacrylate copolymers for use in 3D printed biliary stents

(3995022)

DIVISION: PMSE

Presenter(s): Cynthia Gaddam

Location: Hall C (Ernest N. Morial Convention Center)

Examination of mechanical and thermal degradation properties of polylactic acid embedded with lignin–cellulose nanocrystals chars

(3995171)

DIVISION: PMSE

Presenter(s): Tracy Renee Brown
Location: Hall C (Ernest N. Morial Convention Center)

Exploring a means to improve the processability of high Tg imine-benzoxazine vitrimers

(3993881)
DIVISION: PMSE
Presenter(s): Jo Drake Arrington
Location: Hall C (Ernest N. Morial Convention Center)

Fabrication of nanostructured fuel cell membranes using liquid crystal based materials

(3992779)
DIVISION: PMSE
Presenter(s): Ruiqi Dong
Location: Hall C (Ernest N. Morial Convention Center)

Fluorescent silk microparticles containing semiconducting polymer nanoparticles

(3994792)
DIVISION: PMSE
Presenter(s): Caleb Doherty
Location: Hall C (Ernest N. Morial Convention Center)

Generating tough double network microgels by an emulsification method to make a biomedical adhesive

(3995849)
DIVISION: PMSE
Presenter(s): Quinn Tufino
Location: Hall C (Ernest N. Morial Convention Center)

Hemal loaded mesoporous bioactive glass nanoparticles reinforced alginate based coaxial nanofibers for drug deliver applications

(3995557)
DIVISION: PMSE
Presenter(s): Hassan Nadeem
Location: Hall C (Ernest N. Morial Convention Center)

Identifying low-field NMR biomarkers to characterize collagen/fibrin hydrogel composition

(3997149)
DIVISION: PMSE

Presenter(s): Hiya Sawhney

Location: Hall C (Ernest N. Morial Convention Center)

Influence of interfacial anchoring on properties of structures 3D printed using core-shell hybrid filaments

(3997533)

DIVISION: PMSE

Presenter(s): Bernadine Daichendt

Location: Hall C (Ernest N. Morial Convention Center)

Integration of reactive polymers and strain sensors for chemical sensing

(3993751)

DIVISION: PMSE

Presenter(s): Hyunjoo Seo

Location: Hall C (Ernest N. Morial Convention Center)

Investigation into carbon-conscious Poly(hydroxy)urethane foam with phase change materials for thermal energy storage applications

(3984472)

DIVISION: PMSE

Presenter(s): Chloe Lucci

Location: Hall C (Ernest N. Morial Convention Center)

Ionically-crosslinked polyelectrolyte treatment for fire retardant polyester

(3980522)

DIVISION: PMSE

Presenter(s): Dallin L. Smith

Location: Hall C (Ernest N. Morial Convention Center)

Microfluidic self-assembly of colorimetric PDA liposome sensors using flow rate manipulation

(3992094)

DIVISION: PMSE

Presenter(s): Claire Razanauskas

Location: Hall C (Ernest N. Morial Convention Center)

Microfluidically produced microcapsules with amphiphilic polymer conetwork shells

(3984371)

DIVISION: PMSE

Presenter(s): Sara T. R. Velasquez

Location: Hall C (Ernest N. Morial Convention Center)

N- type conjugated polymer

(3990230)

DIVISION: PMSE

Presenter(s): Varsha Verma

Location: Hall C (Ernest N. Morial Convention Center)

Overcoming thermal instability in organic solar cells using cleavable sidechains

(3983172)

DIVISION: PMSE

Presenter(s): Andrew Bates

Location: Hall C (Ernest N. Morial Convention Center)

Overview of broadband dielectric spectroscopy and its applications in 3D printing and polymer characterization

(3989060)

DIVISION: PMSE

Presenter(s): James Hunter Lambert

Location: Hall C (Ernest N. Morial Convention Center)

Phytochemical screening of essential oil and evaluation of antimicrobial activity and antioxidant properties of plant essential oil-loaded biopolymer as a potential wound healing

(3975778)

DIVISION: PMSE

Presenter(s): Temitayo Margaret Omoyeni

Location: Hall C (Ernest N. Morial Convention Center)

Polymeric blend exploration for tendon manufacturing in tendon replacement therapy

(3988602)

DIVISION: PMSE

Presenter(s): Anh Nguyen

Location: Hall C (Ernest N. Morial Convention Center)

Polymeric copper chelator for long-term inhibition of breast cancer proliferation and lung metastasis

(3990916)

DIVISION: PMSE

Presenter(s): Xianzhe He

Location: Hall C (Ernest N. Morial Convention Center)

Preparation and structural analysis of polymer-derived ceramic nanocomposites

(3983489)

DIVISION: PMSE

Presenter(s): Virginia Mullins

Location: Hall C (Ernest N. Morial Convention Center)

Preparation and studies of New difunctional spirocyclic epoxy monomers

(3994660)

DIVISION: PMSE

Presenter(s): Andrew Kelly

Location: Hall C (Ernest N. Morial Convention Center)

Probing dynamics: Triggering changes in hydrogel-based synthetic extracellular matrices with light toward understanding lung injury and disease

(3981209)

DIVISION: PMSE

Presenter(s): Samantha Swedzinski

Location: Hall C (Ernest N. Morial Convention Center)

Progress in the development of modular glycopolymers tailored to inhibit norovirus infections

(3994115)

DIVISION: PMSE

Presenter(s): Simeon Samuel Newman

Location: Hall C (Ernest N. Morial Convention Center)

Promising eco-friendly polymers for corrosion inhibition of AZ31 magnesium alloy in simulated body fluid

(3978912)

DIVISION: PMSE

Presenter(s): Abdulrahman Aleid

Location: Hall C (Ernest N. Morial Convention Center)

Responsive polymeric capsules as feedstocks for creating functional solid-liquid composites

(3990172)

DIVISION: PMSE

Presenter(s): Chia-Min Hsieh

Location: Hall C (Ernest N. Morial Convention Center)

Solvent-dependent sorption of recycling contaminant surrogates in polypropylene food contact materials

(3977935)

DIVISION: PMSE

Presenter(s): Yoon S Song | Huayi Wang
Location: Hall C (Ernest N. Morial Convention Center)

Spray delivery of supramolecular polymer biomaterials

(3990274)

DIVISION: PMSE

Presenter(s): Loria DiMartino
Location: Hall C (Ernest N. Morial Convention Center)

Stiffness modulation of chitosan-derived nanoparticles impact auranofin drug delivery in triple negative breast cancer

(3990084)

DIVISION: PMSE

Presenter(s): Maame Abena Oforiwaa Afrifa
Location: Hall C (Ernest N. Morial Convention Center)

Surface modification of silk fibroin for electrostatic binding with metal nanostructures

(3994256)

DIVISION: PMSE

Presenter(s): Marie Kerns
Location: Hall C (Ernest N. Morial Convention Center)

Synergistic copolymer blending informs efficient terpolymer design for high performance PDNA delivery

(3993021)

DIVISION: PMSE

Presenter(s): Michael Cody Leyden
Location: Hall C (Ernest N. Morial Convention Center)

Synthesis and evaluation of a Diels-Alder polyphenylene with tethered multication moieties

(3989862)

DIVISION: PMSE

Presenter(s): Ana Soares
Location: Hall C (Ernest N. Morial Convention Center)

Tailored polyurethane composite coatings for corrosion protection of carbon steel using a hybrid mesoporous ceria-titania system

(3986318)

DIVISION: PMSE

Presenter(s): Ahmadyar Qureshi
Location: Hall C (Ernest N. Morial Convention Center)

Tailoring bio-based polyester UV-curable resins with tunable mechanical properties suitable for SLA 3D printing applications

(3977523)

DIVISION: PMSE

Presenter(s): Syed M. Q. Bokhari

Location: Hall C (Ernest N. Morial Convention Center)

Thermally stable ceramics derived from crosslinked borate containing pre-ceramic polymers

(3995568)

DIVISION: PMSE

Presenter(s): Clayton Curtis

Location: Hall C (Ernest N. Morial Convention Center)

Thermodynamic insights into rare-earth element chelation by metal-binding oligomers

(3990873)

DIVISION: PMSE

Presenter(s): Connor Michael Blake Gallagher

Location: Hall C (Ernest N. Morial Convention Center)

Tuning the spatial arrangement of solid-state sol-gel-based polymer electrolyte membranes via thermal annealing

(3996317)

DIVISION: PMSE

Presenter(s): Zhao Ren Tan

Location: Hall C (Ernest N. Morial Convention Center)

Unraveling the impact of aging on high molecular weight Diels-Alder polyphenylene

(3990358)

DIVISION: PMSE

Presenter(s): Nolan Hendrickson

Location: Hall C (Ernest N. Morial Convention Center)

Versatile heterogeneous porous organic polymer catalyst for cross-coupling reactions

(3997485)

DIVISION: PMSE

Presenter(s): Molly Catherine Warndorf

Location: Hall C (Ernest N. Morial Convention Center)

POLY

Additive manufacturing of depolymerizable polyurethanes with bis(2-hydroxyethyl) terephthalate as a comonomer

(3987111)

DIVISION: POLY

Presenter(s): Clarissa Westover

Location: Hall C (Ernest N. Morial Convention Center)

Analysis of aminated polybutadiene via matrix-assisted laser desorption/ionization - time-of-flight mass spectrometry

(3996564)

DIVISION: POLY

Presenter(s): Brennan Curole

Location: Hall C (Ernest N. Morial Convention Center)

Blend compatibility of starch acetate with PLA as a biodegradable polymer alternative

(3988739)

DIVISION: POLY

Presenter(s): Carter Hudson

Location: Hall C (Ernest N. Morial Convention Center)

Cellulose-based poly(ionic liquid)s using a RAFT approach

(3985597)

DIVISION: POLY

Presenter(s): Marisa D Thompson

Location: Hall C (Ernest N. Morial Convention Center)

Chemi-mechanical recycling of post-consumer recycled plastics

(3997701)

DIVISION: POLY

Presenter(s): Arsalaan Nisar Pathan

Location: Hall C (Ernest N. Morial Convention Center)

Design of raft agents for streamlined measurements of polymer chain conformations and diffusivity

(3985593)

DIVISION: POLY

Presenter(s): Sara Valdez

Location: Hall C (Ernest N. Morial Convention Center)

Design of single-chain nanoparticle polymer networks

(3990284)

DIVISION: POLY

Presenter(s): Kelly Hooper

Location: Hall C (Ernest N. Morial Convention Center)

Designing raft agents for streamlined measurements of polymer chain conformations

(3984644)

DIVISION: POLY

Presenter(s): Syba Ismail

Location: Hall C (Ernest N. Morial Convention Center)

Dye-incorporated polymers with functionalities for both lubricity and adhesion and their coating of PEG-based hydrogel microspheres for application in the treatment of knee osteoarthritis

(3994509)

DIVISION: POLY

Presenter(s): Maitreyi Bhagat

Location: Hall C (Ernest N. Morial Convention Center)

Effects of molecular weight and functionality on front velocity of epoxies in radical induced cationic frontal polymerization

(3992469)

DIVISION: POLY

Presenter(s): Julia P Carroll

Location: Hall C (Ernest N. Morial Convention Center)

Evaluating graphene-based additives in polyurethane films for magnetic, conductive, and morphological properties

(3993957)

DIVISION: POLY

Presenter(s): Christopher Faulkner

Location: Hall C (Ernest N. Morial Convention Center)

Expanding dielectric constants: An iterative growth approach with polyhydroxy dendrimers

(3995962)

DIVISION: POLY

Presenter(s): Arianna Chisum

Location: Hall C (Ernest N. Morial Convention Center)

Expanding the thermal window of guanidine-based covalent adaptable networks

(3983176)

DIVISION: POLY

Presenter(s): Alan Daniel Garza

Location: Hall C (Ernest N. Morial Convention Center)

Exploring Diels-Alder synthesized poly(phenylene): Insights regarding synthesis and reaction kinetics

(3987550)

DIVISION: POLY

Presenter(s): Bradley A Swan | Laura Lo

Location: Hall C (Ernest N. Morial Convention Center)

Exploring the foldcat hypothesis: Investigating the growth and sequence differentiation of prebiotic polymers using HP random copolypeptoids

(3999525)

DIVISION: POLY

Presenter(s): Samuel Owoso

Location: Hall C (Ernest N. Morial Convention Center)

Exploring the impact of saccharide density on bioactivity of self-assembled “Janus-type” linear dendritic block copolymers

(3995828)

DIVISION: POLY

Presenter(s): Thomas Newton

Location: Hall C (Ernest N. Morial Convention Center)

Fluorogenic radical polymerization for reaction monitoring and polymer characterization

(3985250)

DIVISION: POLY

Presenter(s): Nicholas Cipolla

Location: Hall C (Ernest N. Morial Convention Center)

Frontal polymerization of thiol-ene free-radical and vinyl ether cationic hybrid system

(3981184)

DIVISION: POLY

Presenter(s): Alexandra Aucoin

Location: Hall C (Ernest N. Morial Convention Center)

Gas-free initiation for free-radical frontal polymerization through charge transfer complexes

(3985628)

DIVISION: POLY

Presenter(s): Md Abdullah Al Mahmud
Location: Hall C (Ernest N. Morial Convention Center)

High mechanical strength polymers with various links from inverse vulcanization

(3991093)
DIVISION: POLY

Presenter(s): Sumin Choi
Location: Hall C (Ernest N. Morial Convention Center)

High performance hydrolytically degradable epoxy-amine networks based on isosorbide

(3981518)
DIVISION: POLY

Presenter(s): Luke Lewis | Derek L Patton
Location: Hall C (Ernest N. Morial Convention Center)

Influence of additives on bubble and crack formation variation in acrylate systems

(3996026)
DIVISION: POLY

Presenter(s): Brennan Poole
Location: Hall C (Ernest N. Morial Convention Center)

Influence of temperature on the size and polydispersity of PEG-PDMS polymersomes

(3982220)
DIVISION: POLY

Presenter(s): Lacy Kate Severn
Location: Hall C (Ernest N. Morial Convention Center)

Investigating biofilm formation on polymer substrates via flow cells

(3990909)
DIVISION: POLY

Presenter(s): Sarah Crowsey
Location: Hall C (Ernest N. Morial Convention Center)

Investigating the reactivity of ϵ -Thionocaprolactone and maleimide derivatives

(3994639)
DIVISION: POLY

Presenter(s): Madison Elizabeth Ross
Location: Hall C (Ernest N. Morial Convention Center)

Investigation of lignin derived methoxylated terephthalates in copolymers and as plasticizers for performance advantaged bio-products

(3995674)

DIVISION: POLY

Presenter(s): Katherine Chism

Location: Hall C (Ernest N. Morial Convention Center)

Kinetics of thiol protecting groups as a step towards dual-trigger degradation of thioether thermosets

(3996070)

DIVISION: POLY

Presenter(s): Rylan F. Price

Location: Hall C (Ernest N. Morial Convention Center)

Little-known nylons: Nylon 5,9 properties

(3991982)

DIVISION: POLY

Presenter(s): Peter Marlin Meyer

Location: Hall C (Ernest N. Morial Convention Center)

Low temperature photoiniferter RAFT polymerization of α -methyl styrene for controllable depolymerization as a potential route to plastic recycling

(3984447)

DIVISION: POLY

Presenter(s): Charles Lewis McCormick

Location: Hall C (Ernest N. Morial Convention Center)

Mechanically robust 3D-printed carbon from commercial polyethylene

(3999146)

DIVISION: POLY

Presenter(s): Ethan Bounds

Location: Hall C (Ernest N. Morial Convention Center)

Mechanophore activation in triblock copolymers at high strain rates

(3994470)

DIVISION: POLY

Presenter(s): John F Searles

Location: Hall C (Ernest N. Morial Convention Center)

Modification of a 1,3-dioxane ring containing acrylate monomer to afford a new library of polymeric architectures

(3990082)

DIVISION: POLY

Presenter(s): RJ Viereckl

Location: Hall C (Ernest N. Morial Convention Center)

Optimization of cure-on demand thin layer coatings using frontal polymerization

(3996374)

DIVISION: POLY

Presenter(s): Madison Dawson

Location: Hall C (Ernest N. Morial Convention Center)

Optimizing OECT performance with polymer blends: Studying volumetric capacitance in poly(3-hexylthiophene) based organic transistors

(3994991)

DIVISION: POLY

Presenter(s): Jeffrey Buetow

Location: Hall C (Ernest N. Morial Convention Center)

Organo-nanoparticle with tuneable size and rigidity using microemulsion ATRP

(3972378)

DIVISION: POLY

Presenter(s): Rongguan Yin

Location: Hall C (Ernest N. Morial Convention Center)

Peptide sequences for selectively targeting delivery vehicles to *Trichomonas vaginalis*

(3992486)

DIVISION: POLY

Presenter(s): Jalissa Warthen

Location: Hall C (Ernest N. Morial Convention Center)

Polyisobutylene reinforcement through multi-block chain exchange shuffling polymerization with isotactic Polypropylene

(3989418)

DIVISION: POLY

Presenter(s): Yuliana Ospina Yepes

Location: Hall C (Ernest N. Morial Convention Center)

Polymerization of acetylenes by well-defined palladium catalysts

(3983516)

DIVISION: POLY

Presenter(s): Zhi-Hao Chen

Location: Hall C (Ernest N. Morial Convention Center)

Precursor design for efficient synthesis of large-pore, sulfur-doped ordered mesoporous carbon through direct pyrolysis

(3992966)

DIVISION: POLY

Presenter(s): Andrew Barbour
Location: Hall C (Ernest N. Morial Convention Center)

Preparation and characterization of a polymer exchange membrane

(3994909)
DIVISION: POLY
Presenter(s): Lauren Trout
Location: Hall C (Ernest N. Morial Convention Center)

Sustainably derived insulation boards

(3995432)
DIVISION: POLY
Presenter(s): Bayleigh Madelin Loving
Location: Hall C (Ernest N. Morial Convention Center)

Synthesis and characterization of a solid single-ion copolymer electrolyte for use in lithium-ion batteries

(3994802)
DIVISION: POLY
Presenter(s): Rhonwyn Fleming
Location: Hall C (Ernest N. Morial Convention Center)

Synthesis and characterization of mellitic triimide based covalent organic frameworks

(3994942)
DIVISION: POLY
Presenter(s): Megan Brenner
Location: Hall C (Ernest N. Morial Convention Center)

Synthesis and characterization of polypeptide and polypeptoid polyelectrolyte complexes to understand molecular characteristic effect on coacervation

(3994304)
DIVISION: POLY
Presenter(s): Anuja Thapa
Location: Hall C (Ernest N. Morial Convention Center)

Synthesis and RAFT polymerization of amino-functionalized methacrylic monomers

(3989764)
DIVISION: POLY
Presenter(s): Dean Afsar
Location: Hall C (Ernest N. Morial Convention Center)

The direct arylation polymerization of a degradable imine-based conjugated polymer with a computational perspective

(3994621)

DIVISION: POLY

Presenter(s): Nathan Sung Yuan Hsu

Location: Hall C (Ernest N. Morial Convention Center)

Thermally controlled applications of inhalable nitric oxide releasing polymers

(3991299)

DIVISION: POLY

Presenter(s): Matthew Maliskey

Location: Hall C (Ernest N. Morial Convention Center)

Ultrafast xanthate-mediated Photoiniferter polymerization-induced self-assembly (PISA)

(3989660)

DIVISION: POLY

Presenter(s): Jared Bowman

Location: Hall C (Ernest N. Morial Convention Center)

Uncontrolled photoinitiated fluorogenic polymerization for biomolecular detection and monitoring polymerization kinetics

(3990343)

DIVISION: POLY

Presenter(s): Margaret Karim

Location: Hall C (Ernest N. Morial Convention Center)

Unveiling the sidechain branching effect on crystal structure and microstructure of the respective thin films of phenothiazine derived polyaniline

(3990732)

DIVISION: POLY

Presenter(s): Hari Giri

Location: Hall C (Ernest N. Morial Convention Center)

Waterborne polyurethane latexes for VAT photopolymerization

(3993034)

DIVISION: POLY

Presenter(s): Ren Bean

Location: Hall C (Ernest N. Morial Convention Center)

PROF

Development of Aldehyde Dehydrogenase-Activated Photosensitizers for Targeted Photodynamic Therapy of Cancer Stem Cells

(4054816)

DIVISION: PROF

Presenter(s): Joseph Anthony Forzano

Location: Hall C (Ernest N. Morial Convention Center)

Ethics and new legislation- the impact of ethics once a new law takes effect

(3982979)

DIVISION: PROF

Presenter(s): Theresa Deangelo

Location: Hall C (Ernest N. Morial Convention Center)

Increasing Participation of Students with Disabilities in STEM

(4043521)

DIVISION: PROF

Presenter(s): Sharon Rozovsky

Location: Hall C (Ernest N. Morial Convention Center)

Navigating the ethical landscape of sustainable materials in chemistry

(3994227)

DIVISION: PROF

Presenter(s): Suze Kundu

Location: Hall C (Ernest N. Morial Convention Center)

Photocatalytic Anti-Markovnikov Hydroamination of Alkenes with Primary Heteroaryl Amines

(4054815)

DIVISION: PROF

Presenter(s): Eric Geunes

Location: Hall C (Ernest N. Morial Convention Center)

Protein engineering-enabled chemoenzymatic tropolone synthesis

(3982985)

DIVISION: PROF

Presenter(s): Jose Hernandez

Location: Hall C (Ernest N. Morial Convention Center)

Towards the total synthesis of auriculatol A

(4054819)

DIVISION: PROF

Presenter(s): Jordan Thompson

Location: Hall C (Ernest N. Morial Convention Center)