

ACS Spring 2023: Sci-Mix Presentations by Author

Negar Abbasi Aval

3823119: Carboxymethylated cellulose nanofibrils (CNF): Application in 3D tumor modeling

Division: CELL

Indiana Convention Center

Ahmed Adel Abdelazeez

3811088: Thin films of solution-processable layered black phosphorene nanosheets via electrophoretic deposition

Division: COLL

Indiana Convention Center

Mohammad Abdelfattah

3822528: Development of a ligand-free, air-stable catalytic system for the N-arylation of amino alcohols and amines

Division: ORGN

Indiana Convention Center

Mona Abdelgaid

3817468: Effect of transition metal doping on the catalytic activity of AlN for propane dehydrogenation

Division: CATL

Indiana Convention Center

Wafaa Abousamra

3825973: Implementation of group IV elements in fluorescent polymers

Division: POLY

Virtual Only

Premila Achar

3801531: Affordable and effective model for STEM study abroad programs

Division: CHED

Virtual Only

Gretchen Adams

3811035: Improving STEM graduation rates through a multi-disciplinary scholarship program at an R1 institution

Division: CHED

Indiana Convention Center

Jason Adams

3826671: Unifying concepts in electro- and thermocatalysis towards hydrogen peroxide production

Division: CATL

Indiana Convention Center

Sarah Adeoye

3804534: Future of alternative energy? Simulating pyrolysis of methyl stearate via molecular dynamic processes

Division: COMP

Indiana Convention Center

Morenike Adesina

3820234: Hybrid clay-TiO₂ composites for enhanced adsorption of organic pollutants: Tetracycline and bisphenol A

Division: ENVR

Indiana Convention Center

Lida Aeindartehran

3826315: Sweet and sour anthelmintic formulations: Thiabendazole

Division: AGRO

Indiana Convention Center

Rishal Aggarwal

3825330: Pharmacophore generation using convolutional neural networks

Division: COMP

Indiana Convention Center

Isaac Agyekum

3803442: Electron impact ionization and fragmentation of saturated fatty acids from Joro spider web: Introduction to undergraduate mass spectrometry fragmentation mechanism

Division: CHED

Indiana Convention Center

Alain Ajamian

3817727: Protocol for validating small molecule structure assignment using calculated ¹³C NMR chemical shifts with quantum mechanics and moe

Division: COMP

Indiana Convention Center

Krishnaveni Ajith

3823664: Synthesis, polymerization, and characterization of terpenoid acrylates

Division: POLY

Indiana Convention Center

Ayodele Akinboye

3812164: Efficacy of South African plants against drug-resistant staphylococci isolated from clinical cases of bovine mastitis

Division: MEDI

Indiana Convention Center

Toyin Akinleye

3811451: Surface chemistry and surface FT-IR study of the NAC segment of α -synuclein

Division: COLL

Indiana Convention Center

Akinwande Akinniyi

3826739: Bringing photodegradation of plastic-waste into the "green age"

Division: ENVR

Indiana Convention Center

John Akintola

3827181: Anti-fouling surfaces from glassy polyelectrolyte multilayers

Division: COLL

Indiana Convention Center

Samir Al Zubaydi

3827576: Cobalt-catalyzed electroreductive coupling of unactivated alkyl chlorides

Division: ORGN

Indiana Convention Center

Amnah Alalmaie

3824678: Mechanistic insight into the conformational changes of Cas8 upon binding to different PAM sequences in the transposon-encoded type I-F CRISPR-Cas system

Division: COMP

Indiana Convention Center

Aszad Alam

3818520: Bacterial cellulose based magnetic composites for transdermal patches

Division: COLL

Virtual Only

Md Robiul Alam

3818474: Synthesis of anionic metal sulfide intercalated layered double hydroxide for the wastewater treatment

Division: INOR

Indiana Convention Center

Guillermo Alfonso

3828014: Development and evaluation of paper microfluidic fuel cells using substituted barium ferrite and hexaferrite anodes for the oxidation of urea in urine

Division: ENFL

Virtual Only

Liaquat Ali

3825932: Synthesis and the controlled self-assembly of coiled-coil oligopeptides
Division: ORGN
Indiana Convention Center

Taufeeque Ali

3806142: Reactive oxygen species (ROS)-activated prodrugs: Mechanism and combination strategy
Division: MEDI
Indiana Convention Center

Majdi Aljohani

3815833: Systemic profiling of desialylation of monocytes and macrophages upon LPS stimulation
Division: CARB
Indiana Convention Center

Sofie Allison

3824796: Hydrophobic ternary mixtures of pharmaceutical and food grade reagents: Characterization in indium extraction from aqueous hydrochloric acid media
Division: NUCL
Indiana Convention Center

Noor Alomari

3820423: Carbon dioxide (CO₂) and nitrogen (N₂) gas capture by type V deep eutectic solvents based on monoterpenoids
Division: ENFL
Indiana Convention Center

David Alonso

3827700: Enhancement of undergraduate chemistry laboratory experiences through a collaboration of industry and academia
Division: CHED
Indiana Convention Center

Dhanush Amarasekara

3823153: Targeted photothermal ablation of biofilms using functionalized gold nanoparticles

Division: COLL

Indiana Convention Center

James Amonette

3849302: Why agricultural bioenergy needs biochar and vice versa

Division: ENFL

Virtual Only

Raisa Carmen Andeme Ela

3821620: Sulfurous zeosils for dehydra-decyclization of tetrahydrofuran to renewable butadiene

Division: CATL

Indiana Convention Center

Raisa Carmen Andeme Ela

3821628: Lignocellulosic biomass valorization via valence-switch catalysis

Division: CELL

Indiana Convention Center

Ryan Anderson

3825788: First row metal complexes for the hydrogen evolution reaction of artificial photosynthesis

Division: INOR

Indiana Convention Center

Clemens Anklin

3802066: Barry Shapiro's NMR newsletters from 1958 to 2001: The story of NMR in 516 volumes

Division: HIST

Indiana Convention Center

Anum Ansar

3826018: Plasticizing capabilities of glycerol: Acetic acid and choline chloride: Urea in potato thermoplastic starch film

Division: AGFD

Indiana Convention Center

Michael Appiah-Kubi

3825752: Evaluating the stability of reduced graphene oxide water purification membranes in sodium hypochlorite at different pH levels

Division: ANYL

Indiana Convention Center

Juan Arango

3823435: High throughput generation of hierarchical nanometer-scale functional patterns on 2D crystalline and amorphous soft materials

Division: COLL

Indiana Convention Center

Pablo Arantes

3812755: Structure and dynamics of off-target effects in CRISPR-Cas9

Division: COMP

Indiana Convention Center

Luis Arce-Rosales

3808999: Isolation of monomeric anthocyanins from *Vitis vinifera* utilizing low-cost and high-throughput methodologies

Division: AGFD

Indiana Convention Center

Randy Arnold

3821164: SCIEX Now Learning Hub: A complementary resource for instruction in mass spectrometry

Division: CHED

Indiana Convention Center

Clement Aruada

3827601: Derivatization methods for perfluoroalkyl substances (PFAS) by gas chromatography/tandem mass spectrometry (GC-MS/MS)

Division: ENVR

Indiana Convention Center

Cristina Ascenzi Pettenuzzo

3819931: Photoinduced carbon radical generation from boronic acid catalyzed by pyridine N-oxides

Division: ORGN

Indiana Convention Center

Oluwanifemi Asimolowo

3819652: Simultaneous separation of nicotine and its relative alkaloids in electronic cigarettes using gas chromatography-mass spectrometry (GC-MS) and capillary electrophoresis (CE)

Division: ANYL

Indiana Convention Center

Phoebe Askelson

3823592: Coupling between bridging and terminal carbonyl modes of $[\text{FeCp}(\text{CO})_2]_2$ probed by 2DIR spectroscopy

Division: PHYS

Indiana Convention Center

Docia Atanda

3825993: Design of 3D printed packed bed columns for removal of methylene blue from water in flow

Division: ENVR

Indiana Convention Center

Ai-Nhan Au-Duong

3828771: Structure-property relationships of elastomeric CO₂ adsorbing ionic liquid microcapsules

Division: POLY

Indiana Convention Center

Alvaro Avendaño Vargas

3828014: Development and evaluation of paper microfluidic fuel cells using substituted barium ferrite and hexaferrite anodes for the oxidation of urea in urine

Division: ENFL

Virtual Only

Muhammad Ayser

3826387: Fractionation of mushroom stems to various bioactive molecules and processing chitin to hydrogel for wound healing application

Division: PMSE

Indiana Convention Center

Golam Azom

3812793: Developing neural network force-fields for graphene-oxide water interfaces at different oxidation level

Division: COMP

Indiana Convention Center

Hajara Babayo

3825114: Mineralization mechanism of hemp fiber

Division: POLY

Indiana Convention Center

Tadeusz Balcerowski

3812806: Thickness dependence of the cholesteric ordering in photonic cellulose structures

Division: CELL

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Tadeusz Balcerowski

3828399: 3-d Printed hierarchical structures of the cholesteric phases of cellulose

Division: CELL

Indiana Convention Center

Akash Banerjee

3812766: Design space exploration of synthetic cells

Division: COMP

Indiana Convention Center

Moumita Banerjee

3822833: Using TD-DFT to understand the photochemistry of functionalized organic systems

Division: COMP

Indiana Convention Center

Addison Barlow

3814366: Investigating methods for the efficient formation of complex imines

Division: ORGN

Indiana Convention Center

Kara Barnett

3826674: Growing a safety culture among chemists with active and passive learning opportunities

Division: CHAS

Indiana Convention Center

Josiel De Jesus Barrios Cossio

3826923: Indirect determination of OH radicals in the ozonolysis of catechol

Division: ENVR

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Arindam Basu

3819696: Evaluation of the efficacy of water-rock interaction in granitic & basaltic terrains in the present and past climate change episodes as a potential negative feedback on atmospheric pCO₂ on the earth

Division: GEOC

Virtual Only

Cooper Battle

3823884: micro-RNA sensor design: A course-based undergraduate research experience

Division: CHED

Indiana Convention Center

Cooper Battle

3812127: Chemistry service-learning at Willamette: Developing a high school outreach course

Division: CHED

Indiana Convention Center

Bolormaa Bayarkhuu

3807479: Solar H₂O₂ production via synergetic auto- and photocatalytic oxidation

Division: ENFL

Indiana Convention Center

Judit Beagle

3818218: Effects of water on the physicochemical properties of fructose-based natural deep eutectic solvents

Division: CELL

Indiana Convention Center

Nolan Beam

3827160: Evaluation of human serum albumin nanoparticles for encapsulation and delivery of near infrared ionic dyes with selective toxicity to cancer cells

Division: ANYL

Indiana Convention Center

Cameron Bechard

3814381: Investigating changes in undergraduate students' identity statuses using the PISQ-5D survey

Division: CHED

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Michael Beck

3808180: Developing a successful research program at a primarily undergraduate institution (PUI)

Division: CHED

Indiana Convention Center

Nicole Benson

3826202: Synthesis, isolation and structural modification of didesmethylrocaglamide: A biologically active flavagline natural product with promising anticancer activity

Division: ORGN

Indiana Convention Center

Danielle Beres

3826178: One-pot synthesis of imidazolidines: A bioactive scaffold for a new generation of antibiotics

Division: ORGN

Indiana Convention Center

Stephanie Berg

3815480: Prompting hypothetical social comparisons to support chemistry students' data analysis and interpretations

Division: CHED

Indiana Convention Center

Seth Bergeron

3826630: Phytoremediation of toxic heavy metals from soils using sunflowers (*Helianthus annuus*), ferns (*Nephrolepis biserrata*) and mustard greens (*Brassica juncea*)

Division: AGFD

Indiana Convention Center

Jonathan Bersson

3826796: Difference projected double hybrid density functional theory simulation of UV/visible spectra: Derivation and implementation of transition dipole moments

Division: PHYS

Indiana Convention Center

Rohit Bhandari

3822301: Non-traditional routes to identify significant photodegradates from an herbicide photolysis study

Division: AGRO

Indiana Convention Center

Vinayak Bhat

3818560: OCELOT infrastructure for data-driven design and discovery of organic semiconductors

Division: COMP

Indiana Convention Center

Ashree Bhatta

3824875: Stereoselective glycosylation via dynamic kinetic resolution

Division: CARB

Indiana Convention Center

Swagata Bhattacharyya

3821004: Investigating Janus particle-bacteria interactions towards nano-antibiotics development

Division: COLL

Indiana Convention Center

Rina Bhowmick

3825431: Quantitative bond analysis between the trivalent lanthanide and uranium phosphinodiboronate complexes using DFT

Division: INOR

Indiana Convention Center

Nadezda Bijelic

3824469: Syntheses of a biochemically important aldehyde, 3,4-dihydroxyphenyl-acetaldehyde (DOPAL), a toxic dopamine. Metabolite in vivo: Implications for Parkinson's disease pathogenesis

Division: CHED

Indiana Convention Center

Mohammed Bin Rusayyis

3819398: Reprocessable addition-type polymer networks based on dynamic hindered urea bonds with full recovery of cross-link density after recycling

Division: PMSE

Indiana Convention Center

Souvik Biswas

3806911: Development of machine learning-driven web app interface for quantitative estimation of urine pH: Theory to experimental validation

Division: COLL

Indiana Convention Center

Souvik Biswas

3814877: MoS₂ modified paper sensor towards selective detection of uric acid: Experimental validation of first principle calculations

Division: COLL

Indiana Convention Center

Rebecca Black

3826224: How do organic chemists contribute sustainable solutions to problems? A student-driven Organic Chemistry I research project based in the UN sustainable development goals

Division: CHED

Indiana Convention Center

Thomas Blackburn

3826775: Operando ATR-FTIR on a device-like architecture for understanding OPV degradation

Division: ENFL

Indiana Convention Center

Will Blair

3815294: Optimizing a hyaluronic acid-based hydrogel for delivery of neural progenitor cells for ischemic stroke treatment

Division: CHED

Indiana Convention Center

Daniela Blanco

3811911: Leveraging small data for faster and better catalysis

Division: CATL

Indiana Convention Center

Isaac Blythe

3828608: Observation of high-valent Cu organometallic complexes in C-H functionalization

Division: PROF

Indiana Convention Center

Katelyn Bobek

3825996: Preparation of polysubstituted γ -butyrolactone oxime carbonates from δ -nitro alcohols and total synthesis of (-)-hinokinin, (-)-bicubebin B and (-)-isodeoxypodophyllotoxin

Division: ORGN

Indiana Convention Center

Erin Bock

3823626: Designing more equitable general chemistry assessment items

Division: CHED

Indiana Convention Center

Lauren Bodkin

3811929: Design of new phosphobetaine-based zwitterionic monomers that form lyotropic bicontinuous cubic phases for water desalination membrane applications

Division: POLY

Indiana Convention Center

Rebekah Bogle

3817614: Attaching DNA primers to slides with synthetically modified glass

Division: CHED

Indiana Convention Center

Jorge Boscoboinik

3816180: CO on PdAu(111): Dynamical study of adsorbate-induced restructuring kinetics in bimetallic catalysts

Division: CATL

Indiana Convention Center

Carlota Bozal-Ginesta

3823280: Machine-learning-guided design of perovskite lanthanum oxide catalysts for solid oxide fuel cells

Division: CATL

Indiana Convention Center

Justin Brackenridge

3826338: Directed assembly of 2D materials for next generation smart composites

Division: PMSE

Indiana Convention Center

Morgan Brackett

3820680: Investigation of how individuals are represented in college general chemistry textbooks

Division: CHED

Indiana Convention Center

Nathan Brady

3825596: Mycosynthesis of zinc oxide nanoparticles exhibits fungal species dependent morphological preference

Division: COLL

Indiana Convention Center

Lilliana Brandao

3821629: Validating kinetic models for ethylene epoxidation over silver

Division: CATL

Indiana Convention Center

Carrie Brennan

3825033: Assessment of student laboratory skills in an undergraduate curriculum
Division: CHED
Indiana Convention Center

Jonathan Briganti

3826972: Piloting virtual reality applications to enhance student perception of molecular structure-function relationships
Division: CHED
Indiana Convention Center

Michelle Brooks

3816833: Lab skill development: A short course focusing on skills in general and organic chemistry
Division: CHED
Indiana Convention Center

Michelle Brooks

3820518: Implementing the DEIR guidelines for ACS approved programs: Goals, challenges, and aspirations
Division: CHED
Indiana Convention Center

Anne Brown

3826972: Piloting virtual reality applications to enhance student perception of molecular structure-function relationships
Division: CHED
Indiana Convention Center

Chris Brown

3819257: Microbial biotransformation screen for metabolite profiling and generation
Division: AGRO
Indiana Convention Center

Corina Brown

3821572: Systems thinking approach to a general, organic, and biological chemistry course

Division: CHED

Virtual Only

Fikile Brushett

3828516: Exploration of the isopropanol-acetone redox couple as a rechargeable electrofuel

Division: CATL

Indiana Convention Center

Tabitha Burch

3823122: Additively manufactured polyvinylidene fluoride materials with optimized thermomechanical performance

Division: PMSE

Indiana Convention Center

Cooper Burgin

3826702: Tracking pharmaceuticals and personal care products (PPCPs) through the northern Potomac River basin: A comparison of surface water vs. sediment

Division: ENVR

Indiana Convention Center

Jack Burke

3822925: Monitoring electron transfer in a bimetallic molecule with ultrafast light pulses across the electromagnetic spectrum

Division: PROF

Indiana Convention Center

Taylor Busch

3815037: Uptake of arsenic by fungi isolates from plants for bioremediation

Division: GEOC

Indiana Convention Center

David Bwambok

3827160: Evaluation of human serum albumin nanoparticles for encapsulation and delivery of near infrared ionic dyes with selective toxicity to cancer cells

Division: ANYL

Indiana Convention Center

Siqi Cao

3828690: Comparison of the extractability of pesticides from soil using different extraction methods

Division: AGRO

Indiana Convention Center

Weikai Cao

3816919: Enhanced detection of high-mannose glycans using controlled trypsin digestion and mass spectrometry

Division: ANYL

Indiana Convention Center

Marco Caricato

3826875: Modeling catalyzed reactions on metal-doped amorphous silicates: The case of niobium-catalyzed ethylene epoxidation

Division: CATL

Indiana Convention Center

Thomas Carrouth

3841311: Liquid formulation optimization for stability and activity retention of bacterial enzymes

Division: CARB

Indiana Convention Center

David Caruso

3818394: Creating primary sources for historical study: Oral history and capturing the unwritten record

Division: HIST

Indiana Convention Center

Anthony Casale

3821239: Designed multiferroics in the A₂BX₃ family of materials

Division: ENFL

Virtual Only

Michael Castaldi

3810991: Using our medicinal chemistry elective to enhance student presentation and research skills at a small undergraduate inner-city university

Division: CHED

Indiana Convention Center

Abigail Castillo

3825791: Exploring potential factors that can impact students' professional identity in STEM

Division: CHED

Virtual Only

Joe Castleman

3825749: Formation and identification of small microplastics and nanoplastics

Division: ENVR

Indiana Convention Center

Klaudja Caushi

3823458: Asset-based approach to supporting general chemistry students

Division: CHED

Indiana Convention Center

Nicholas Cemalovic

3823585: Non-native C–H oxidation of diverse coumarin scaffolds by non-heme iron enzymes

Division: ORGN

Indiana Convention Center

Melissa Cendejas

3827848: Tracking surface changes on hBN during the oxidative dehydrogenation of propane using operando X-ray Raman spectroscopy

Division: CATL

Indiana Convention Center

Erika Cerna Arroyo

3822072: Effect of lipid phase behavior on polymer binding to liposomes

Division: POLY

Indiana Convention Center

Emily Chaisson

3826766: Effects of interdigitation on the biophysical properties of lipid bilayers:

A molecular dynamics study of chain-asymmetric lipids

Division: COLL

Indiana Convention Center

Somya Chakraborty

3822731: Correlating thermodynamic phase-boundaries of lipidated proteins to physicochemistry of pendant lipids

Division: PMSE

Indiana Convention Center

Stacy Chamberlin

3840020: Developing a professional, undergraduate chemist

Division: CHED

Indiana Convention Center

Bhagya Chandrarathne

3822258: Designing polymers for enhanced protein-polymer bioconjugates

Division: PMSE

Indiana Convention Center

Tzu Hsuan Chao

3818473: Predicting disordered protein polymer physics directly from primary sequence with data-driven approaches

Division: COMP

Indiana Convention Center

Ariane Charland-Martin

3825127: Degradable conjugated polymers enabled via simple, tailorable, and sustainable synthesis

Division: POLY

Indiana Convention Center

Saaj Chattopadhyay

3819681: Characterizing the fluorescence of single chiral molecules in the near field of gold nanoparticles

Division: ANYL

Indiana Convention Center

Katherine Chaves Carballo

3819072: Remodeling the didactics and assessment tools of an organic chemistry laboratory for non-majors: An integral approach

Division: CHED

Indiana Convention Center

Feng-Yang Chen

3818778: Direct electrosynthesis of ammonia from nitrate via catalyst design and electrolyzer engineering

Division: ENFL

Indiana Convention Center

Kaisai Chen

3829917: Entangled two-photon absorption of carbazolyl dicyanobenzene derivatives

Division: PHYS

Indiana Convention Center

Kitmin Chen

3806798: Fast semi-automated postprocessing workflow of untargeted LC-QTOF-MS data for degradation analysis

Division: PMSE

Indiana Convention Center

Si Chen

3811861: Growth of calcite in the presence of strontium: In-situ measurements coupled with multiscale chemical imaging

Division: GEOC

Indiana Convention Center

Victor Chen

3827106: Analysis of organic dyes on historical textiles in a museum setting by liquid chromatography with detection by diode array and mass spectrometry (LC-DAD-MS).

Division: HIST

Indiana Convention Center

Ting Cheng

3821209: In situ electrochemical spectroscopic study of ruthenium polyoxometalates as water oxidation catalysts

Division: INOR

Indiana Convention Center

Sheyla Chero Osorio

3826459: Deammonification as a novel and sustainable strategy to remove ammonium from mainstream wastewater

Division: GEOC

Indiana Convention Center

Saumil Chheda

3810398: Tunable design of metal-organic frameworks for atmospheric water harvesting

Division: COMP

Indiana Convention Center

Yongju Cho

3810454: Case study using California olive pomace for potential valorization strategy of olive oil industry by-products by the application in avocado oil based cosmetics

Division: AGFD

Indiana Convention Center

Jiachong Chu

3819454: Engineering FluorFRET tags for spectroscopic multiplexing at the single-molecule level

Division: ANYL

Indiana Convention Center

Kasey Chung

3812633: TCFH as a mild, green, non-sensitizing coupling reagent

Division: ORGN

Indiana Convention Center

Amanda Cicali

3824580: Comparison of the amino acid metabolism of genetically different brewing yeasts

Division: AGFD

Indiana Convention Center

Ciera Cipriani

3813289: Modular platform for 3D printing fluid-containing monoliths with controlled porosity

Division: POLY

Indiana Convention Center

Daniel Clark

3821124: Quantifying structural heterogeneity in individual CsPbBr₃ quantum dot superlattices

Division: COLL

Indiana Convention Center

Matthew Clark

3827121: Imaging and manipulating chemicals in live cells using real-time precision opto-control

Division: ANYL

Indiana Convention Center

Derek Coers

3823177: Deducing an adsorption affinity relationship between organic dyes and charged and neutral organic O/W nanoemulsions

Division: PHYS

Indiana Convention Center

Aaron Coffin

3822196: Exploring allosteric modulators in drug discovery

Division: MEDI

Indiana Convention Center

Caroline Cole

3826867: Accelerating tissue regeneration with protein-loaded fiber mats

Division: POLY

Indiana Convention Center

Kevin Cole

3803189: New synthesis method for (S)-oxetan-2-ylmethanamine

Division: ORGN

Indiana Convention Center

Eric Collier

3826018: Plasticizing capabilities of glycerol: Acetic acid and choline chloride:
Urea in potato thermoplastic starch film

Division: AGFD

Indiana Convention Center

Kourtney Collier

3826018: Plasticizing capabilities of glycerol: Acetic acid and choline chloride:
Urea in potato thermoplastic starch film

Division: AGFD

Indiana Convention Center

Sean Collins

3819465: Displacing fluorine: Lewis acid-mediated substitution reactions of alkyl
fluorides

Division: ORGN

Indiana Convention Center

William Collins

3819106: Monitoring methane emissions from oil and gas operations

Division: ENFL

Indiana Convention Center

Angel Colon-Santiago

3819709: Seasonal variations of nitrate and chloride in an intermittent stream in the Midwest Ozarks

Division: ENVR

Indiana Convention Center

Kynzie Combs

3812775: Green C-O bond hydrogenolysis of carbamates using D-glucose as alternative and renewable H₂ donor

Division: INOR

Indiana Convention Center

Allyssa Conner

3820636: General conditions for the Hiyama-Denmark cross-coupling of tetrasubstituted vinyl silanes

Division: ORGN

Indiana Convention Center

Catherine Connolly

3821392: Synthesis and characterization of novel mercury-doped and cadmium-doped Au₂₅ bi-icosahedron nanoclusters

Division: CHED

Virtual Only

Elizabeth Corson

3822155: Probing the interfacial electrolyte environment during nitrate reduction

Division: CATL

Indiana Convention Center

Victoria Costilow

3824527: Bang for your bark: Comparative analysis of dog food by ICP-OES, mycotoxin testing, and SPME-GC-MS

Division: AGFD

Indiana Convention Center

Anna Cramblitt

3822816: Order-to-chaos transitions during frontal polymerization

Division: PMSE

Indiana Convention Center

Cristina Cu

3822191: Incorporation of a photochromic bicyclic aziridine in thiophene based

Division: PHYS

Indiana Convention Center

Jeannette Cullum

3825660: Effects of fungicide exposure on Daphnia-Metschnikowia disease dynamics

Division: AGRO

Indiana Convention Center

Jakub Cwiertnia

3820236: Impact of functionalization of carbon nanotubes on their physicochemical properties

Division: PMSE

Indiana Convention Center

Marcelo D Poletto

3819949: Modulation of polyethylene terephthalate (PET) electronic properties by PET-degrading enzymes

Division: COMP

Indiana Convention Center

Jonathan Dabbs

3822890: Applied dearomatization of pyridine: Synthesis of tetrahydropyridine isotopologues and isotopomers

Division: ORGN

Indiana Convention Center

Xiaofeng Dai

3816941: Revealing the accessibility and surface morphology of the Escherichia coli nucleoid by genetically encoded live-cell single-particle tracking

Division: ANYL

Indiana Convention Center

Alyssa Daniels

3820296: Gold(I)-catalyzed haloalkynylation of substituted acetylenes

Division: ORGN

Indiana Convention Center

Craig Daniels

3818872: Kinetic Monte Carlo simulations of surface kinetics on heterogeneous computing architectures

Division: CATL

Indiana Convention Center

Kwabena Darko

3821185: Efforts toward N-heterocyclic carbene (NHC)-catalyzed intramolecular oxidopyrylium-based [5+2] cycloadditions

Division: ORGN

Indiana Convention Center

Jerome Darsey

3815536: Design of new, and environmentally safe herbicides using AI and molecular modeling

Division: AGFD

Indiana Convention Center

Nabankur Dasgupta

3819548: Understanding the effect of surface hydrophobicity and nanoconfinement on the conversion of carbon dioxide to carbonic acid

Division: GEOC

Indiana Convention Center

Eliana Davis

3821163: Cell membrane-based sensing on conducting polymers enabled by cell-free expression

Division: POLY

Indiana Convention Center

Elizabeth Davis

3826687: Exploring the use of cationic palladium in activating highly hindered anhydrides in the acylation of alcohols and carbohydrate-derived polyols

Division: CARB

Indiana Convention Center

Angana De

3821895: Interfacial excitons in two-dimensional organic-inorganic perovskites

Division: PHYS

Indiana Convention Center

Ina De La Fuente

3828915: Modular DNA micelles for the controlled delivery of therapeutic DNA-surfactant conjugates

Division: COLL

Indiana Convention Center

Nilson De Paula

3817132: Turning cross-condensation selectivity by controlling mass-transfer limitations in zeolites

Division: CATL

Indiana Convention Center

Chloe De Perre

3819539: Development of new strategies to address NER in soil

Division: AGRO

Indiana Convention Center

Ruby Deeter

3825584: Disentangling the effects of intermolecular forces and stereochemistry on impact resistant polymers

Division: PMSE

Indiana Convention Center

Lindsey Dejesus

3823026: Quantitative identification of nonpolar perfluoroalkyl substances by mass spectrometry without chromatographic separation

Division: PHYS

Indiana Convention Center

Marie Deliaval

3822868: Mechanistic aspects of the catalytic asymmetric homologation of organoboronates with CF₃- and TMS-diazomethanes

Division: ORGN

Indiana Convention Center

Adam Demeter

3826180: Experiences of undergraduate learning assistants

Division: CHED

Indiana Convention Center

Bhavesh Deore

3841302: Chemical and electrochemical reactivity trends of alkyl and aryl S-glycoside donors

Division: CARB

Indiana Convention Center

Blaine Derbigny

3826096: Optimization of ambidextrous low molecular weight polymer gelators for applications in transdermal drug delivery

Division: COLL

Indiana Convention Center

Gidey Bahre Desta

3810286: Investigation of electrochemical interfacial response via synchrotron techniques in sulfide electrolytes and Ni-rich NMC in all-solid-state lithium-metal batteries

Division: ENFL

Indiana Convention Center

Mary Devadas

3821385: Gold nanostars for the Raman spectroscopic detection of gunpowder residue agents

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3821392: Synthesis and characterization of novel mercury-doped and cadmium-doped Au₂₅ bi-icosahedron nanoclusters

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3825848: Green, yellow, or cyan? Characterization of thermostable fluorescent proteins in a biochemistry lab

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3828588: Synthesis, characterization and catalytic activity of encapsulated iridium nanoparticles in halloysite (Ir@Hal)

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3806127: Anchimerically assisted depolymerization of chimeric polyethylene terephthalate

Division: POLY

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Sabrina Dilts

3822010: Fluorescent nematicidal chalcones

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3818957: Graduate student handbook: Focus on the individual elements of chemistry doctoral education

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3813217: Optimization of droplet leaf spreading assessment with novel use of videometer

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3802548: Peptide triagonists of the GLP-1-, neuropeptide Y1- and neuropeptide Y2- receptors for glycemic control and weight loss

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3803442: Electron impact ionization and fragmentation of saturated fatty acids from Joro spider web: Introduction to undergraduate mass spectrometry fragmentation mechanism

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3826878: Removal, isolation, analysis, and characterization of microplastics found in urban and rural soil: Scrutinizing the Fenton reagent process

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3820726: Creating sustainable and multi-modal experiential learning opportunities for high school students

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3827419: Evaluation of continuous flow versus batch methods for Fischer glycosylation reactions of simple alcohols

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3824720: Exploring structure-activity effects while employing an “overcutting” mode for organic residue removal during Cu post-chemical mechanical planarization (p-CMP) cleaning

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3817042: Mixed-valence tri-aryl amines as redox-active molecules for non-aqueous organic redox-flow batteries

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3827177: Tackling CACHE with GNINA and pharmit

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3824355: Titanium oxide hydrates as reversible crosslinkers for hydrogels

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3822005: Investigating the effect of vaping additives on the biophysical nature of pulmonary surfactant lipid systems

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3814998: Monitoring BPA leaching from feminine hygiene products using fluorescence spectrophotometry

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3823277: Azadipyrromethene copolymers for nanoparticle formation

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3825266: Mutational analysis of valine B12 in human insulin using multisite λ -dynamics

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3819969: Ketone-olefin coupling of aliphatic and aromatic carbonyls catalyzed by excited-state acridine radicals

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3823095: Potentiostat for undergraduate-designed electrochemical laboratories and the search for CO₂ reduction catalysts

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3808986: Climbing to new chemical space: [2]-Ladderanes as elusive isosteres for meta-substituted aromatic rings and rigidified cyclohexanes

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3814112: Motor protein driven, active, on-chip transport and detection of nanoscaled, biomolecular cargo

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3823310: Photo-responsive Cr(III)-supramolecular siloxane polymers with self-healing potential

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3826549: Atomistic dynamics of the rigid and mobile amorphous fractions in π -conjugated polymers

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3827881: Selective Mizoroki–Heck reactions on allylamines

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3824875: Stereoselective glycosylation via dynamic kinetic resolution

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3817629: Sensitivity of gas-evolving electrocatalysis to the hydrophobicity of catalyst microenvironment

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3812963: Reprocessable polythiourethane (PTU) dynamic networks exhibiting excellent creep resistance at elevated temperature

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Yasman Ferguson

3818314: Electrospinning deposition of imprinted polymer-graphitic carbon nitride hybrid membranes for water purification

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Jack Ferrell

3825625: Carbon corrosion in CO₂ electrolysis systems

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3826777: Fluoride binding to characteristic heme-pocket centers: Insights into ligand stability

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Keir Fogarty

3825620: Choose your own adventure in the instrumental analysis laboratory

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3824760: Evaluating positive-allosteric-modulator-induced conformational changes of $\alpha 3$ glycine receptor

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Abegel Freedman

3828172: RAFT polymerization of methyl ether poly(ethylene glycol) benzyl methacrylate for LCST studies

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Emilien Freville

3823913: Influence of polysaccharide additives in fibrillation of cellulose fibres via twin screw extrusion process

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Gregory Friestad

3816698: Control of remote stereogenic centers in bastimolide and analogs

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Allison Fry

3827706: Protonated peptide ion fragmentation: Loss of H₂O from gas-phase polyglycine

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3802280: Rapid and efficient syntheses of tryptophans using continuous-flow quaternization-substitution reaction of gramines with a chiral nucleophilic glycine equivalent

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3820968: Optimizing CO₂ photoreduction in titania multivariate frameworks via modification of the electronic and steric environments of the organic building blocks.

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Greeshma Gadikota

3827815: Role of confinement and siliceous interfaces on carbonate crystallization

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Greeshma Gadikota

3827781: Reactive separation of rare earth elements and transition group metals using CO₂

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Betty Galarreta

3823803: Improving students' research skills in the analytical chemistry and instrumental analysis laboratories with a project-based approach

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Connor Gallagher

3818663: Biphasic isothermal titration calorimetry (ITC) as a tool to develop new polymeric extractants

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Fisher Gandel

3827988: Analysis and comparison of the ARCA method for evaluating incidents

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Tao Gao

3827818: Aqueous electrolyte design for iron (Fe) metal batteries

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Karoline Garcia-Pedraza

3825342: Heterostructured photocatalysts of Ni²⁺ doped CdS quantum dots and β -Pb_{0.33}V₂O₅ nanowires: Towards selective CO₂ reduction

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Isabella Garcia

3819900: Synthesis of benzofurans via Au(I)-catalyzed cyclization 2-alkynyl phenol acetals

Division: ORGN

Indiana Convention Center

Juan Garcia

3825818: Beer processomics: Evolution of volatile and nonvolatile hop compounds throughout boiling and fermentation with genetically different yeast

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Joseph Gauthier

3821337: New developments in probing coupled proton electron transfer barriers with density functional theory in the grand canonical ensemble

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Shokoofeh Ghasemi

3823660: Development of an epoxy-siloxane coating for ice releasing properties enhancement

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3817817: Carbohydrate vaccine adjuvants

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Rujuta Ghorpade

3819717: Porphyrin-catalyzed production of carbon monoxide from phenyl pyruvic acids: Potential applications as a CO donor and in the detection of phenylketonuria

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Sougata Ghosh

3821599: Bioactive principle functionalized nanomaterials for anticancer applications

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Karan Gill

3823428: Total synthesis of (+)-eburnamonine through a Pd-catalyzed asymmetric cyanoamidation reaction

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Carmen Giunta

3828844: HIST's journal: The bulletin for the history of chemistry

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3825908: Expanding the colloidal nanomaterial toolbox with N-heterocyclic carbenes

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Linus Gog

3828124: Applying near infra red spectroscopy to quantification of cannabinoids
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Eric Gomez

3825398: Identifying multiple emitters in carbon dots
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Ning Gong

3805240: Transition metals embedded siloxene as single-atom catalyst for advanced sulfur host in lithium–sulfur batteries: A theoretical study
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Angela Gonzalez

3828808: Instrumental Analysis laboratory in a hybrid classroom
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Olivia Gooch

3815440: Circularly polarized luminescence induced by chiral deep eutectic solvents
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Sunny Goon

3812725: Hit to lead modification: Design, synthesis, and development of quinazolinone based small molecules for the treatment of non-alcoholic fatty liver disease (NAFLD)
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Ashley Grande

3817028: Characterization of antibody binding to adeno associated virus using charge detection mass spectrometry

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Kevin Green

3819528: Self-assembly of glucose and galactose containing Janus-type linear dendritic block copolymers for utilization in biomedical applications

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Steve Greenbaum

3821902: Deep eutectic solvents based on choline chloride as electrolyte components for redox flow batteries or lithium batteries: NMR studies of molecular and ionic dynamics

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Allie Guerra

3814987: Chiral pool approach to the asymmetric synthesis of abyssomicin C

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3822745: Analysis of free, conjugated and insoluble-bound phenolics in buriti fruit shells as a potential source of functional dietary fiber

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3821498: HEPoP: A machine learning framework for hydrolysis energy predictions of polymers

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Anthony Gullion

3823192: Recent developments on the reactivity and versatility of oxypyridinium salts as general-purpose electrophiles

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Lalitha Gummidi

3825970: Development of an automation platform for continuous-flow glycan synthesis with applications to fluoros tag-based oligosaccharide synthesis

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Filipp Gusev

3828462: Large-scale protein-ligand binding free energy calculations using automated GPU-accelerated molecular dynamics simulations

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Evgeny Gutkin

3828462: Large-scale protein-ligand binding free energy calculations using automated GPU-accelerated molecular dynamics simulations

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Gopichand Gutti

3820960: In-silico guided design, screening, and molecular dynamic simulation studies for the identification of potential SARS-CoV-2 main protease inhibitors for long term COVID-19 treatment

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3819787: Colorimetric quantification of PEG hydrogel mass loss

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Anthony Shoji Hall

3828488: Atomic scale insights into electrocatalyst structure and function

Division: CATL

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Jacques Hall

3827341: Longitudinal study of kinetics and thermodynamics

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Wadood Hamad

3821536: Actuators and sensors based on cellulose nanocrystals

Division: CELL

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Tamara Hamilton

3823041: Community science academy: Transforming students, transforming neighborhoods

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3803914: Pyridinonorborenones as a unique platform for the precise synthesis of pyridine-containing polymers

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3808588: Metal-catalyzed microwave-assisted oxidative degradation of polyisoprene and polyethylene

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3824885: Controlled release of small molecules from surface modified polypyrrole films

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3818040: Tailored design of highly permeable polyamide-based nanofiltration membrane via a complex-dissociation regulated interfacial polymerization

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3817706: Quantum chemical insight into interactions of deep eutectic solvents with nucleic acids

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3809294: Photochemically produced reactive oxygen species and subsequent toxicity by various motor oils

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Alaa Hassan

3824092: Towards dynamics measurements of individualized macromolecules

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Sumon Hati

3826062: Kinetic analysis for fast detection of COVID-19 biomarker using epitope-modified nanoplasmonic biosensing platform

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Sumon Hati

3825936: Understanding electronic interactions at the interface of metal-organic hybrid system through controlling surface binding head-group on gold nanostructures

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3842470: Commercial production of recombinant sialic acid aldolase for one-pot multi-enzyme (OPME) synthesis of Neu5Gc-containing sialosides

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Raj Hazra

3828259: Exploring the effect of methoxylated sucrose soyate polyol based nanoparticles as fungicide delivery system for agricultural crops

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3810753: Surface complexation modeling of neodymium adsorption to goethite

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3818442: Implementation of a core-shell design approach for constructing MOFs for CO₂ capture

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3801511: Using quasi-active learning in chemistry classrooms to improve student learning

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3837991: Flexible automation: A new approach to meet evolving challenges

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3818292: Measurements and modeling of radical chemistry below the canopy of a northern Michigan forest

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3816791: Harvesting water from moist air using a novel cellulose-based superabsorbent hydrogel

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3820638: Towards the optimal PET tracer for multiple myeloma imaging

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3820763: The influence of physical space on the learning environment: STEM faculty perspective

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3817082: Metal-promoted tryptophan-selective bioconjugation in nonaqueous medium

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3819757: Stereoselective synthesis of (+)- and (-)-cananodine

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3819953: 3D printing of highly luminescent piezoelectric fluoropolymer composites

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3828230: Investigating the effect of adenine polymer length on type 1 cell death with the photodynamic cancer therapy drug lumazine

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3804011: Stimuli-responsive polymer-based portable sensor to quantify naphthenic acids in water

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3821674: Phosphorylated pulp fibers prepared under various conditions, and the preparation, properties and application of phosphorylated cellulose films

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3825499: Graduate Committee for Professional Development: a model for sustained student-led professional development

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3826356: Continual learning for redox flow batteries

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3822137: Toward the synthesis of a library of triazine-based, biodegradable, cationic lipids

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3848577: Eat healthy or die young: Interactions between diet, pesticides, and viruses in honey bees

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3825402: Late-stage diversification of drug molecules by high-throughput desorption electrospray ionization mass spectrometry (DESI-MS)

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3822575: Describing free-radical polymerization reactions with a stochastic approach

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3820942: Ethylene cross-bridged tetraazamacrocyclic transition metal complexes with alkene and alkyne pendant arms for copolymerization to produce heterogeneous catalysts for water purification

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Max Hulsey

3804366: Transient kinetic isotope effects reveal interfacial CO₂ dissolution kinetics

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3818898: Broadening the scope of mechanically triggered molecular release

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3816904: Harnessing radionuclide imaging to investigate the in vivo behaviour of metal-based drugs

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3814831: In quest of deep blue phosphorescent emitters: Exploring gold(I) acetylides with N-heterocyclic carbene ligands

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3827944: Simulating the quantum chemical dynamics and vibrational spectra of hydrogen-bonded systems on ion-trap quantum devices

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3817493: Effect of drinking water treatment plant configuration on the removal of microplastics from Lake Erie source water

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3816675: Investigation of molecular and nano structures in thermoplastic etherified arabinoxylans

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3824131: Chain extending solid-state polymerization of recycled PET using polymeric diisocyanate as an upcycling approach

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3827859: Incorporation of sprayable supramolecular polymers into the ReCell device for enhanced tissue regeneration following skin injury

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3823490: Tiny earth chemistry: An antibiotic discovery CURE

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3823296: Optimization of small molecule PTPN22 inhibitors for immunotherapy

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3828857: Investigating the stability of silver monolayer protected clusters

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3827160: Evaluation of human serum albumin nanoparticles for encapsulation and delivery of near infrared ionic dyes with selective toxicity to cancer cells

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3822785: Molecular dynamics of poly(propylene oxide-co-glycidyl methyl ether) (GME): Unraveling the effect of composition and molecular weight on segmental and chain dynamics

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Meng Jiang

3821941: Molecular simulations of novel polycatenanes in gas separations

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3817893: Expanding biocatalytic activities of flavin-depedent halogenases: Enantioselective intramolecular haloetherification of olefin and selective bromination and iodination of arene and olefin

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3811811: Insights into mechanical and tribological performance of nanolubricants during boundary mode lubrication between cartilage surfaces

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3825177: Integrating sustainability and engaged citizenship throughout courses for majors, nonmajors, and preservice teachers

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3819879: Pynta: An automated workflow software for surface and gas-surface reactions

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3818343: Quality of hand sanitizers during the Covid-19 pandemic

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3821385: Gold nanostars for the Raman spectroscopic detection of gunpowder residue agents

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3814665: Effective conversion of carbon dioxide into industrial substrate, formic acid in the presence of metal(II) complex bearing conjugated ligand scaffold as catalyst: Synthesis, characterization and catalytic study

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3828417: Impacts of additives on decreasing Sn⁴⁺ concentration in tin halide perovskites

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3818314: Electrospinning deposition of imprinted polymer-graphitic carbon nitride hybrid membranes for water purification

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3824354: Contrasting ground- and excited-state intramolecular aggregation in choline chloride-based deep eutectic solvents versus a liquid polymer

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3822413: Polyelectrolyte complexes and their 3D printing: The importance of charge pairing and solvent/composition in rheological optimization for layering

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3821995: Electrocatalytic hydrogenation of alkenes at an oil-water interface

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3825749: Formation and identification of small microplastics and nanoplastics

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3811436: Hydrolysis of the uranium trioxide phases: Applications of photothermal spectroscopy

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3803193: CO₂ hydrogenation to hydrocarbons over Fe/BZY catalysts

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3811125: Investigating carbon-based black pigments with a nonlinear microscopy technique

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3818147: Transformation of a Ni₃N OER precatalyst in Fe-purified and Fe-unpurified alkaline media: Revealing the reason for its superior OER activity

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3811280: Electrostatic evolution of the SARS-CoV-2 spike protein and its interactions with heparan sulfate

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3813781: Rapid and simple quantitation of average polymer molecular weight and composition via ESI-MS and a Bayesian universal charge deconvolution

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Ajmir Khan

3827253: Sample approach for the reprocessing of cross-linked and mixed polyurethanes

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Md Rakib Hasan Khan

3827965: Cellulose-based electro-responsive thin film drug delivery systems

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Naveed Khan

3828134: Advances towards complex polysaccharides and peptidoglycans using automated flow chemistry

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Khomidkhodzha Kholikov

3822659: Effects of chelating ligands on 5-(p-hydroxyphenyl)-2-pyridylthiazole as ratiometric fluorescence probes for metal-ion sensing

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Rameesha Khursheed

3825335: Evaluating the efficacy of smoke-water towards ripening of banana
(*Musa paradisiaca*)

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Katherine Kidder

3818486: Investigation of the space of coarse-grained model representations

Division: COMP

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Ceren Kilinc

3826956: Optimal sampling of ligand (un)binding kinetics using variational
approach for Markov processes using neural networks (VAMPnets)

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Bryant Kim

3817461: Doubly polarized QM/MM with machine learning chaperone
polarizability

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3827866: Importance of catalyst-ionomer interactions in alkaline fuel cells and
electrolyzers

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3821955: Functional protein-based chemical motor coatings for modular self-
propulsion

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3820643: Fast-disintegrating diltiazem HCl/cyclodextrin inclusion complex electrospun nanofibrous strips for oral drug delivery

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3814034: Building data literate undergraduate chemistry students one byte at a time

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3817367: Sustainable coating on microscopically epichlorohydrin treated paper- for packaging applications

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Shelby Klein

3826000: Intermediates and mechanistic steps of Hepatitis B virus disassembly described by charge detection mass spectrometry

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Megan Knobloch

3813378: Transformable polymer masks as a platform for regioselective modification of metal nanocrystals

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Abhishek Kognole

3820585: SILCS-RNA: Structure-based drug design approach for targeting RNAs with small molecules

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Alyssa Kohler

3820708: Efficacy of a plant-derived polymeric drug delivery system used to deliver antibiotics to produce cytotoxic effects on bacteria

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Lola Kouretas

3821059: Effects of protonation and hydrogen bonding on templating efficient macrocyclization

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Marcel Krömer;Ger

3824330: Simple free-radical copolymerization of vinyl-modified CNC for reinforced pHEMA composites

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Bjarne Kreitz

3817579: Uncertainty quantification in automated mechanism development for heterogeneously catalyzed reactions

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Kyosun Ku

3818033: Synthesis liquid crystal epoxy resin with enhanced thermal conductivity by mesogenic assembly properties

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Anmol Kumar

3819646: Generalizing Drude polarizable force-field to drug-like molecules

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Prashant Kumar

3823005: Self-assembly of cadmium dipeptide nanoparticles into bowtie complex microparticles with chirality continuum

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Prashant Kumar

3823032: Birefringence of chiral hedgehog particles

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Sumit Kumar

3821727: Computational-assisted discovery of chemical scaffolds effective against novel coronavirus (SARS-CoV-2)

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Prashant Kumta

3824415: Evolution of electrochemically active materials for high energy density Li-S batteries

Division: ENFL

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Krishnamoorthy Kuppannan

3820698: Alternate chromatographic approaches aiding in separation and identification of relevant metabolites

Division: AGRO

Indiana Convention Center

John Kurowski

3828783: Synthesis and analysis of titanium and zirconium based metal organic frameworks and nanoparticles for photocatalysis

Division: PMSE

Indiana Convention Center

Nayeon Kwon

3848042: C(sp²)-H alkylation of N-heterocycles using 1,4-dihydropyridines via cobalt(II)-catalyst

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Sunny Kwon

3825421: H₃⁺ formation from CH₃X, where X= halogens and pseudohalogens

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Yonghwan Kwon

3820084: Visible light curable acrylic resins toward UV-light blocking adhesives for foldable displays

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Jacob Ladwig

3828702: Metal-organic coordination polymers constructed from complexes of 3d metal ions and photosensitizer ruthenium(II)-polypyridyl building blocks

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Isabelle Lagadic

3822057: Stop grading redundant lab reports! Certify your students' technical lab skills through digital badging

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Sydney Lam

3809028: Online version of CHEMCompete-II: A card game to differentiate between substitution and elimination of alcohols

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Kaitlin Landy

3819444: Programming “atomic substitution” in alloy colloidal crystals using DNA
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Sarah Langlais

3808963: Adaptable plasmonic nanosensors comprised of photoswitchable molecular machines for multiparametric plasma biomarker detection facilitating diagnosis of pancreatic cancer
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Sarah Langlais

3810743: Light activated nanoplasmonic sensor for multiplexed detection of exosomal microRNAs from diabetes patient islet cell and blood plasma extracts
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Taylor Larison

3812349: Phosphonic acid based polymers; a new class of structure directing agents for nanocomposites with controlled interfaces via self-assembly
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Mark Lawley

3820087: Interactions of PHB and switchable hydrophilicity solvents: A more sustainable approach to PHB recovery
Division: POLY
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Chan Le

3817756: Investigation of photoproducts from the reaction between deoxynucleotides in DNA and excited-state lumazine
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Hoang Le

3826809: Developing more stable, robust, and efficient organic semiconducting materials

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Thao Linh Le

3819812: Investigation of 2'-O-methylation function on tRNAPhe

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Jongcheol Lee

3814208: Structural inhomogeneity of cellulose assembly in plant cell wall affecting anisotropic mechanical property

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Yungyeong Lee

3813468: Design of novel water-soluble purely organic photocatalyst for aqueous PET-RAFT polymerization

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3801472: Synthesis of a ligand mimicking an active site of a metalloenzyme

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Zepeng Lei

3804418: Recyclable and malleable thermosets enabled by dynamic nucleophilic aromatic substitution

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Josephine Leone

3823329: Investigating photophysical properties of D-A-D compounds

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Zoe Lequeux

3813255: Incorporation of reduced graphene oxide decorated with iron oxide particles in polyurethane dispersions for electromagnetic wave shielding

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Chase Leslie

3827558: Broadband multidimensional electronic spectroscopy studies of nonadiabatic interexciton relaxation and dynamic exciton localization mechanisms in allophycocyanin trimers

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Lauren Lewellen

3828085: Oxidation reaction of 2-methoxyfuran prompted by O(3P) introduction at 298, 550, and 700 K

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3817850: Building reorganization energy predictor for designing conductive non-conjugated polymeric materials with active learning strategy

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3817230: Mechanochemical changes in the extracellular matrices of hepatic stellate cells in response to the stiffness of synthetic scaffolds

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Ruixin Li

3824059: Structural and mechanical properties of ligated DNA crystals

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3816446: Revealing evolutions of different single atom catalysts during electrochemical CO₂ reduction by in situ XAS

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3818419: Fabrication of phase change actuators from wax/thermoplastic elastomer blends

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Kang Rui Garrick Lim

3801907: Interparticle distance influences catalytic selectivity in benzaldehyde hydrogenation

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3815569: Visible-light photoredox-catalyzed C(sp²)-H difluoromethoxylation of (hetero)arenes utilizing a shelf-stable pyridinium reagent

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Shiru Lin

3811371: Dry reforming of methane on doped Ni nanoparticles: Feature-assisted optimizations and ranking of doping metals for direct activations of CH₄ and CO₂

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Jaqueline Lindstrom

3821322: Synthesis and characterization of a solid polymer electrolyte using electrochemical impedance spectroscopy and pulse field gradient NMR diffusion spectroscopy

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Anna Lisa

3816857: Systematic study of Ta doped -LLZO synthesis

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3812695: Boosting zinc-ion storage in hydrated vanadium oxides via migration regulation

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3826318: Development of ultrasound-mediated bioethanol purification process

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3808630: Biofuel production from ozonolysis of high oleic oil as the alternative to jet fuel and kerosene

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3819575: Semi-interpenetrating polymer networks (s-IPN) of pentaipycene-based polybenzimidazole for H₂/CO₂ separation

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Mingqian Liu

3815355: Aggregation of thermo-responsive nanoparticles into macroscopic materials

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3826113: Origin of structural degradation of layered oxide cathode materials

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3808854: Sequential macrophage activation switch controlled by NIR for infected percutaneous tissue repair of Ppy coated sulfonated PEEK

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3826540: Reaction kinetics at electrochemical interface: Insights from first principles

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3820519: Developing substrate-based analogues as inhibitors and assessing their inhibitory effects on the enzyme cysteine ligase (MshC) in Mycobacterium tuberculosis

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3828989: Co-intercalated zirconium phosphate nanoparticles with cisplatin and doxorubicin as a possible novel anticancer therapy treatment

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Makenzie Long

3817605: Supplemental instruction improves retention rates and study skills in freshman and sophomore chemistry courses

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Steven Long

3822085: Thermophobic adjuvants targeting toll-like receptor 9 for varying immune response with temperature

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Pierre-Luc Longchamps Longchamps

3819620: Induction of viable but nonculturable *Campylobacter jejuni* in various stress conditions

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3820680: Investigation of how individuals are represented in college general chemistry textbooks

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Juan Lopez-Ruiz

3826682: Promotional role of Ni-Cu alloy in catalytic performance and carbon properties for CO₂-free H₂ production from thermocatalytic decomposition of methane

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3819928: Toward a “one-click” tool for automated data extraction from the literature

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Yangyi Lu

3812680: Multi-state density functional theory of excited states

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Alec Lucas

3828251: Inverse suspension polymerization of poly{acrylamide-co-[3-(Trimethoxysilyl)propyl methacrylate]} hydrogels for internal curing of cement

Division: PMSE

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Christine Lucky

3811026: Electrocatalytic transformation of C(sp³)-H and C(sp³)-C(sp³) bonds in small organic molecules

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Nathaniel Luis

3812633: TCFH as a mild, green, non-sensitizing coupling reagent

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3818558: Engineering a novel α -glycoligase for chemoenzymatic synthesis of α 1,3/4-fucosylated oligosaccharides

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3807027: Mechanism study of radical homopolymerization of multivinyl monomers: Applicability of Flory-Stockmayer theory

Division: POLY

Indiana Convention Center

Xiaotu Ma

3847925: Direct upcycling of mixed Ni-lean polycrystals to single-crystal Ni-rich cathode materials

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Mariana Maciel

3819626: Quantifying the sensitivity and selectivity of portable tin oxide nanosensors to detect VOC biomarkers in simulated breath samples

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3827898: Oxidant-resistant silver and bismuth nanoparticles for use bioimaging applications

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Indiana Convention Center

Isaac Macwan

3828751: Thermoelectric transduction of carbon nanotubes and poly vinyl alcohol based nanofibrous scaffolds

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Kathleen Maiello

3824993: The improved purification and logical structural derivatization of Landomycin A, an angucycline antibiotic

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Sthitadhi Maiti

3827245: Alpha-MoRF and folding free energy prediction in intrinsically disordered peptides

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3828639: Towards a better understanding of the surface properties of ruthenium(II) molecular oxygen evolution catalysts in artificial photosynthesis

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3828180: Exploring the influence of urban grime accumulation on the physical properties and environmental reactivity of common building materials

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3820760: Dissolved organic matter (DOM) optical properties change over space and time in an intermittent Ozark forest stream

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3816648: Antagonism of the β -adrenergic receptor as a potential anti-stress mechanism of kava and its kavalactones characterized via a cell-based cAMP assay

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3819900: Synthesis of benzofurans via Au(I)-catalyzed cyclization 2-alkynyl phenol acetals

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3821940: Electronic spectroscopy of transition metal oxide clusters based on combined wavefunction/density-functional methods

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Sagarmoy Mandal

3828862: Improving the scaling and performance of hybrid functional and plane wave based ab initio molecular dynamics

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3819841: Polyesters with a spiroacetal unit toward tailored properties and recyclability

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3823192: Recent developments on the reactivity and versatility of oxypyridinium salts as general-purpose electrophiles

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3813356: Design of a collaborative synchronous virtual laboratory course using an in-house developed home kit

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Joshua Marsh

3807499: Making the nano, macro, with sphero-mini

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3828124: Applying near infra red spectroscopy to quantification of cannabinoids

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3825749: Formation and identification of small microplastics and nanoplastics

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3828369: Synthesizing a library of hyperbranched glycopolymers via RAFT polymerization for human norovirus inhibition

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3827847: Preparation, structure, and properties of stimuli-responsive and conductive cellulosic-protein gels

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Sara Mason

3821054: First principles and thermodynamics modeling of chemical processes at mineral-water interfaces

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3819850: Total synthesis of (+)-napyradiomycin A1 via catalytic asymmetric halofunctionalization

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3809136: Antibacterial properties of a novel 1,2,4 oxadiazole

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3822663: Investigating metal nanoparticle interactivity in computational electromagnetic modeling

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3827800: GPU accelerated machine learning force field training and application using allegro

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3812775: Green C-O bond hydrogenolysis of carbamates using D-glucose as alternative and renewable H₂ donor

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3841307: One-pot multienzyme (OPME) sialylation kits for custom ganglioside synthesis

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3815471: Pursuit of self-replicating molecules using sulfur—nitrogen interactions

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Campbell Mccolley

3828218: Eco-corona formation and impact on environmentally relevant micro- and nano-plastics

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3823270: Use of charged monomers to create water soluble polysulfides for heavy metal removal

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Kristen Mcginnis

3820801: Modeling photocatalytic oxidation of isoprene on mineral surfaces using TiO_2 + isoprene cluster reactions

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James Mckone

3827005: Leveraging hydrogen insertion for redox catalysis on metal oxides

Division: CATL

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Caylyn Mcnaul

3849179: Reversible electric field-induced adhesion of charged polysaccharide hydrogels

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3822137: Toward the synthesis of a library of triazine-based, biodegradable, cationic lipids

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3801820: Microfluidic electrochemical device and its application in high-sensitive SARS-CoV-2 antigen sensing

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3819612: Structure-property-processing relationship of 3D printable self-healing polymer blends

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3827080: Mild activation strategy enables epimerization-free N-to-C solid phase peptide synthesis

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3826687: Exploring the use of cationic palladium in activating highly hindered anhydrides in the acylation of alcohols and carbohydrate-derived polyols

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3820424: Discovery of a first-in-class potent and selective TCPTP degrader

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3841311: Liquid formulation optimization for stability and activity retention of bacterial enzymes

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3815454: Deciphering the charge profile of megadalton sized dsDNA plasmids with charge detection mass spectrometry

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3820347: Mass is better than light: Analyzing meaningful learning from the perceptions of students in hydrate determination using gravimetric analysis and spectrophotometry in the introductory chemistry laboratory

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Alyssa Minnella

3825777: Base metal complexes for CO₂ functionalization

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Ankita Mishra

3838879: Unsaturated lactams via C–H activation using Pd(II)

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3826720: Methods of D-ring synthesis for optimization of the phyllanthusmin class of natural products against ovarian cancer

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Miguel Modestino

3825174: Engineering electrode/electrolyte interfaces for high-performing organic electrosynthesis

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Taryn Moffett

3825751: Pt_xMy/TiO₂ (M = Pd, Cu) nanofiber photocatalysts in p-nitroaniline conversion

Division: INOR

Indiana Convention Center

Mahrokh Moradi

3828759: Synthesis and degradation of aliphatic poly(ester carbonate) copolymers using novel chloroformates

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Nicolas Morato

3847622: Accelerating drug discovery using high-throughput desorption electrospray ionization mass spectrometry

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3824314: Pre-organized aryl-triazole foldamers for selective anion recognition

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Jesse Morin

3825019: Laboratory courses are opportunities to arm students with increased self-efficacy and science identity with the goal of increasing diversity in STEM

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Max Mortensen

3827501: Limiting unselective H₂O formation in the dry-reforming of CH₄ using elevated oxophilicity and limited hydrogenation kinetics of intermetallic compounds composed of non-noble transition metals and p-block elements

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Katie Morton

3822284: Probing the viscosity of levitated mixed organic-inorganic aerosol

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3811062: Biopolymers synthesized from ring opening polymerization of epoxidized vegetable oils with multifunctional renewable acids

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Kara Moulton

3824465: H-bonding Interactions in heme a model compounds dissolved in low dielectric solvents

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3803301: Implementation of analytical quality by design and green chemistry principles to develop an ultra-high performance liquid chromatography method for the determination of fluocinolone acetonide impurities from its drug substance and topical oil formulations

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Zoltan Mucsi

3827221: Triarylpyrylium-scaffold as novel red fluorescent nucleic acid sensor
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Laura Muehlbauer

3814552: Synthetic peptide enantiomeric purity analysis by chiral high-performance liquid chromatography-electrospray ionization mass spectrometry
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Anja Mueller

3815747: Organic chemistry games and higher-level learning in organic chemistry lecture
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Grace Muna

3810211: Stimulating students' learning in principles of chemical instrumentation course through an environmental-based CURE project
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Sarah Murphy

3826254: Characterization of the conductive properties of self-assembling nucleopeptides
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Selvakumar Murugesan

3816558: Development of stable liquid emulsions of spice oleoresin using modified surfactant based emulsifiers
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Shehla Mushtaq

3828886: Aqueous biodegradation of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and its impact on ocean life

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Chip Nataro

3830037: IONiC VIPER: A community racing to improve teaching and learning

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3805654: Terahertz generation improvement through sandwich structures

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Brad Neal

3824898: Assessing General Chemistry 1 outcomes based on prior introductory chemistry course or mid-semester recovery course enrollment

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Rachel Nealon

3825796: Photoacidic properties of 8-amino-2-naphthol in imidazolium and pyrrolidinium salts

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Rodrigo Neumann Barros Ferreira

3810827: CRAFTED: An exploratory database of simulated adsorption isotherms of metal-organic frameworks

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3823003: Polyvinyl ether as practicable direct ink writing (DIW) 3D printable materials

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3827010: Metastable components of solid electrolyte interphase in Li-ion batteries using cryogenic X-ray photoelectron spectroscopy

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Son Nguyen

3824875: Stereoselective glycosylation via dynamic kinetic resolution

Division: CARB

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Tram Nguyen

3824875: Stereoselective glycosylation via dynamic kinetic resolution

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Christopher Nicholas

3804521: Sustainable pathways to acrylic acid: Our progress on the lactic-to-acrylic route

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Adam Nijhawan

3820524: Combining time-resolved x-ray solution scattering and molecular dynamics to elucidate kinetic pathways for small peptides following environmental perturbations

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Kevin Nixon

3828356: Star poly(ionic liquid)s

Division: POLY

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Rosalie Nolen

3811737: Phinder: Semi-automated pharmacophore elucidation

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Johanna Nong

3818310: Binding of lignin sulfonate hydrogel to glass surfaces for application as sensor material

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3824517: f-block correlation consistent composite approach (f-ccCA) for actinide thermochemistry

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3823106: Investigating motivation for leadership involvement in a research lab safety workshop

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3814109: Spin-dyeing man-made cellulosic fibres with pigment dyes and their recyclability

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3819604: Self-assembly of p-benzoquinones with fluoro- and oxoanions via anion- π bonding in solutions and in the solid state

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3827759: Quantification of fluorescent intrabody dynamics for single-molecule in-vivo imaging

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3821190: Comparison of the carry over effects on daughter plants of wheat and soybean plants previously exposed to perfluorooctanesulfonic acid (PFOS)

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3821234: Time resolved and non-linear optical spectroscopy of organic molecules for OLED applications

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3825695: Removal of cadmium in contaminated water using inexpensive, natural resources

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3827649: Characterization of stimuli-responsive polymers and dispersions with titanium dioxide for applications in architectural coatings

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3815092: Core-shell morphology of metal nanoparticles encapsulated with silane-coupled porphyrins characterized using scanning probe microscopy

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3819916: New generation of diagonal electron propagator self-energies for the calculation of electron removal energies

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3818003: Functionalization of alkyl boronic esters to access β -amino acid derivatives

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3826829: Click chemistry approach provides GLUT5-targeting glycoconjugates as potential more specific PET imaging probes

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3821923: Synthesis of novel fatty acid synthase (FASN)-specific PET tracers for improved prostate cancer diagnosis

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3825094: Intramolecular oxamidation of 1,3-enynes and 1,3,5-diynes: A stereocontrolled route to usefully functionalized azabicyclic ring systems and beyond

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Alondra Ortiz-Ortiz

3815468: Enabling hydrothermal ZnO nanowire synthesis on non-planar surfaces using surface-directed assembly

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3821416: Data-driven design of high entropy materials for high-rate battery electrodes and solid-state electrolytes

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3825658: Studying interactions between solvated polymer-grafted nanoparticles via coarse-grained molecular dynamics simulations

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Madison Page

3821170: Electrochemiluminescence in droplets towards highly sensitive bacterial detection

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3806911: Development of machine learning-driven web app interface for quantitative estimation of urine pH: Theory to experimental validation

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Arijit Pal

3814877: MoS₂ modified paper sensor towards selective detection of uric acid: Experimental validation of first principle calculations

Division: COLL

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Tathagata Pal

3807504: Interfacial polymerized polyaniline nanostructure coated enzyme based fiber optic biosensor for detection of carbofuran pesticide

Division: COLL

Indiana Convention Center

Vaibhav Pal

3825858: High-throughput microgel biofabrication via air-assisted co-axial jetting for cell encapsulation, 3D bioprinting, and scaffolding applications

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3822284: Probing the viscosity of levitated mixed organic-inorganic aerosol

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3822732: Mesoscale modeling of controlled degradation and erosion phenomena in polymer networks

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3818006: Ab initio x-ray theory shows that photoexcited, hot electron, and thermal effects are distinguishable using illuminated, non-time-resolved synchrotron measurements

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3825647: Moisture-curable urea-siloxane coating for anti-icing applications

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3820944: Hop (*Humulus lupulus*) phytochemical profiles as a function of growth region by HR-LCMS and GCMS analysis

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3828507: Modeling glyme mixtures for sodium-ion electrolytes: Are monomers and oligomers interchangeable?

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Thomas Parton

3822446: Optical activity arising from plasmonic nanoparticles grown in chitin-nanocrystal self-assembly

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3825016: Comparing cannabis phenotypes using 2-dimensional gas chromatography and sensory analysis

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3827894: Teaching activity in the context of kinetics

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3826996: Development of automated flow methods for birch reduction with application to the O-debenzylation of carbohydrates

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3819964: Towards experimental investigation of the electronic structure of germanium-based perovskites

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3822820: Anionic polymerization in a mini-fluidic reactor

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3826517: Reparametrizing a semiempirical tight-binding-based approach for the simulation of platinum clusters on graphene

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Alexandre Perera

3802540: Studies towards the total synthesis of griseoviridin: Approaches towards the preparation of the 9-membered lactone core

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Julia Pescheux-Sergienko

3820642: Using mechanochemistry for simultaneous comminution and hydrophobization of (nano)cellulose

Division: CELL

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Laurence Peterson

3801531: Affordable and effective model for STEM study abroad programs

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Stella Petrova

3826881: Synthesis of α -1,3-glucan esters for amorphous solid dispersion technologies: Impact of morphology on performance

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Pavel Petukhov

3803923: First non-covalent, druglike, and orally bioavailable inhibitors of thioredoxin glutathione reductase with schistosomicidal activity in vivo

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Sophia Pezze

3825533: Decarboxylation kinetics of cannabigerolic acid (CBGA)

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John Pham

3822597: Utilizing autocatalytic reactions to realize multilayer digital circuits

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3818430: Improving the colloidal stability of cellulose nanocrystals in aqueous media by biosurfactants

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Angelina Pierre

3818832: Synthesizing and characterizing a library of rhodamine B amide dimers with varying covalent linkers

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Autumn Pilarski

3821201: Influence of sample conditions on DNA backbone conformation equilibrium using ^{31}P solution NMR

Division: PHYS

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Atahualpa Pinto

3812887: Click chemistry modifiable polyhydroxyalkanoate polymers (AzidoPHAs) for targeted drug delivery applications

Division: POLY

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Jessica Plescia

3820470: Generating in silico libraries from hit compounds and prioritizing the promising analogues with computer-aided drug design techniques

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Liliane Poirot

3817915: Use of real time experimental data assessment in an OER hybrid lab manual

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Cristina Pokhrel

3824875: Stereoselective glycosylation via dynamic kinetic resolution

Division: CARB

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Jeewan Pokhrel

3818732: Cu-SSZ-39: Copper exchanged zeolite for partial methane oxidation

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Anna Pons

3807836: Identification and quantification of carcinogen compounds in carotenoid foods through solid-phase microextraction gas-chromatography mass spectrometry

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Brigham Pope

3817705: Size-selective optical trapping of particles with nanoscale lenses integrated into microfluidic channels

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3832435: Experimental characterization of a chain-terminating pathway in autoignition: Organic acid and carbonyl formation from γ -Ketohydroperoxide decomposition in n-Butane oxidation

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Joanna Powell

3823196: Quantification of nitrate in pomegranate extract using ion-pair reverse-phase HPLC

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Joseph Powell

3826880: Activated cleaning chemistries via megasonic energy for low-stress post-chemical mechanical planarization of SiC

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3817126: Effect of trans vaccenic acid on glucose homeostasis in a mouse model of diet-induced obesity and insulin resistance

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Vincent Prayugo

3825374: Thiacloprid detoxification capabilities of virus infection-recovered honey bees

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Raven Puckett

3826249: NMR analysis of T1 and T2 relaxation times of aqueous solutions of GABA and glutamate

Division: CHED

Indiana Convention Center

Bryce Pugh

3815550: Development of cleavable antibiotic-adjuvant hybrid compounds for increased accumulation in gram-negative bacteria

Division: CHED

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Yue Qi

3823018: Harvesting new possibilities in the woods --- simulations of cellulose and lignin

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Xueping Qin

3824244: Activity and selectivity modulation of CO₂ electroreductions at Au-water interfaces via tuning local cation concentrations

Division: CATL

Indiana Convention Center

Shiran Qiu

3825041: Refinement alternative for rice paddy modelling of agrochemicals in Southern Europe

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3824832: Self-trapped excitons mediated energy transfer to Sm³⁺ in Cs₂AgIn(1-x)Sm_xCl₆:Bi double perovskite nanocrystals

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3827408: Strategies to improve career mentoring of chemistry undergraduates

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3816961: pH-dependent studies on the structure and dynamics of the monomeric catalytic domain of human carbonic anhydrase IX

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3820345: Developing amphiphobic nanolignin coatings for paper packaging

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3816137: Photocleavable carbodiimide-fueled transiently crosslinked polymer hydrogels using raft polymerization

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3818204: Structural and dynamical properties of hydrated xylans using molecular dynamics simulations

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3819412: Retention mechanisms of rare earth elements on kaolinite as a function of water chemistry

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3813934: Cytotoxic cannabinoid analogs for prevention of cancer

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3804004: Student learning in HyFlex General Chemistry Courses

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3828292: Design and implementation of an interactive video game into an undergraduate General, Organic, and Biochemistry (GOB) Course

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3822040: Sustainable, biodegradability, and water-resistant packaging materials by metal-cation-induced wettability transition of hydrophilic lignocellulose

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3826499: Institutional transformation through curriculum and faculty development to serve the modern chemistry student: Action research as a professional development strategy

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3823934: Determination of surface functional groups on polydopamine particles and its influence on antioxidant properties

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3827734: Exploring the origin of magnetic relaxation in transition metal-based single-molecule magnets

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3823594: Effect of nanocrystal size and surface chemistry on indium phosphide quantum dot vibrational structure

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3824334: 3D printing viadirect ink writing (DIW) of self-healing elastomers

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3824885: Controlled release of small molecules from surface modified polypyrrole films

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3807509: Bioactive natural products as building blocks for a drug delivery platform based on self-assembled nanoparticles

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3827767: Evolution of volatile flavor compounds produced during the fermentation of beer with genetically different yeast

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3827358: New platform for the production of ordered mesoporous materials

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3826425: Electrospray ionization tandem mass spectrometry with collision induced dissociation: Probing uranyl-bridging ligands

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3819201: 3D confinement in water: H₂O exhibits long-range (> 50 nm) structural confinement while D₂O does not

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3817506: "Air-gap" paper microfluidic devices for acid-base titrations in the educational laboratory

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3829029: The importance of independence in upper-division chemistry laboratory courses

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3828878: Using reflective journaling to drive professional development for novice STEM TAs

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3825293: Facet-dependent behavior of the two-electron oxygen reduction reaction on a layered palladium diselenide catalyst for the electrosynthesis of hydrogen peroxide

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3820531: Photocatalytic nonoxidative coupling of methane: Insights from first principles calculations and kinetic Monte Carlo simulations

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3822706: Redox-active species in variable states of charge in electrolytes: A molecular dynamics investigation

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3825135: Inertial separation of microscale particles on microfluidic devices

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3854057: Photochemical properties of aqueous brown carbon derived from dicarbonyls and ammonium

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3826254: Characterization of the conductive properties of self-assembling nucleopeptides

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3801472: Synthesis of a ligand mimicking an active site of a metalloenzyme

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3822033: Development of a microfluidic droplet based bacterial pathogen detection platform with a loop-mediated isothermal amplification method

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3825779: Photoinduced alkylation of unactivated arenes via halogen atom transfer

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3819661: In silico and tunneling microscopy investigations of surface impact on halogen...halogen intermolecular forces

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3819227: Lanthanide-based double perovskite nanocrystals with emissions covering the UV to NIR spectral range

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3827944: Simulating the quantum chemical dynamics and vibrational spectra of hydrogen-bonded systems on ion-trap quantum devices

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3823652: Dispersity effects in RAFT polymer networks with variation of CTAs

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3827429: How does a quantum machine learning model train itself? Navigating the learning landscape through the lens of the imaginary component of information scrambling measures

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3826444: Carbamazepine, nitrate, phosphate, and sulfate concentrations in effluent water from nine wastewater treatment plants in Savannah, Georgia

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3825072: Low dimensional medium-entropy catalysts for high-rate Li-CO₂ batteries

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3828217: Combined experimental and computational assessment of the corrosion inhibition efficiency of organic compounds by predictive QSAR modeling

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3827408: Strategies to improve career mentoring of chemistry undergraduates
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3828922: In silico enzyme structure analysis predicts optimal immobilization via hydrophobicity matching
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3820741: Drawing their ideal learning space: Chemistry faculty knowledge about the relationship between physical space and pedagogy
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3819333: Aryl carbonyl and aryl phosphine oxide groups as antennas for lanthanide luminescence
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3823404: Investigation of renewed shelf-life of commercial photopolymer resin
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3823680: Direct ink writing (DIW) of polyurethane concrete sealant
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3815679: Growth and size control of carbon nanotubes: A theoretical approach
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3823177: Deducing an adsorption affinity relationship between organic dyes and charged and neutral organic O/W nanoemulsions

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3820591: Development of a short peptide to prevent non-thrombogenic clot formation on hydrophobic surfaces

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3821938: Solid-phase isotope harvesting: Harvesting radioisotopes from heavy-ion beam irradiated tungsten beam-blocker

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3827659: Analyzing degradation of self-assembled monolayer upon atomic layer deposition with nanoscale infrared spectroscopy

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3811743: Supramolecular assembly promotes the non-enzymatic generation of proto-nucleic acid oligomers

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3820016: Influence of network architecture on self-healing and processability of elastomers bearing hindered urea bonds

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3820780: Evaluation of a SnO₂-based ⁴⁴Ti/⁴⁴Sc generator for medical applications

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3822923: Betty Wood: Scientist and educator at Bell Labs and beyond

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3819147: Challenges and opportunities in scaling electrochemical CO₂ conversion from lab to commercial scale: Catalyst design, cell design and process integration

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3818775: Characterization of total antioxidant capacity in spent coffee ground extracts by roast and brewing method via UV-Vis spectrometry

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3817544: Self-replication using dynamic-covalent chemistry and chalcogen bonding

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3821180: Mapping of the thermal decomposition of PFOA

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3824717: Leveraging ligand exchange reactions in electrocatalyst design

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3820805: Understanding the mechanism of corona formation on gold nanoparticles in serum and simpler mixtures of serum proteins

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3825907: Sequential thermal and solvent immersion annealing for self-assembly of block copolymer films: Hiking the free energy landscape

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3818123: Ultrasensitive detection of neurodegenerative disease biomarkers using nonlinear laser wave-mixing spectroscopy coupled with capillary electrophoresis and microfluidics

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3817984: Characterizing thermodynamics and capturing dynamics of ternary complexes involved in targeted protein degradation

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3826920: Metadynamics-based approach for the sampling of intramolecular degrees of freedom in alchemical binding free energy calculations

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3828011: Preparation and characterization of 3-D printed hydrogel systems doped with photochemically prepared antimicrobial nanoparticles

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3821033: Nanoscale measurements of charge transfer at cocatalyst-semiconductor interfaces on particle photocatalysts

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3816507: Using the fluorescence fingerprints of olive oils to teach excitation-emission matrix

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3812948: Metal chalcogenide-based electrocatalysts for hydrogen peroxide electrosynthesis and the electro-Fenton process

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3821922: Synthesizing a library of sialic acid-functionalized polypeptides to investigate polyvalent interactions for influenza inhibition

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3825835: Multinuclear copper active sites for dry NO oxidation over Cu-SSZ-13

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3828784: β -Arylation of allylamines

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3822984: Assessing self-interaction correction from active fermi-Löwdin orbitals in FLOSIC

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3818484: Probing the mechanism and structure-activity relationships in the CuOx catalysed reduction of 4-nitrophenol

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3822696: β -Carboline based one and two-photon active photoremovable protecting group: Sequential release of different carboxylic acids

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3825693: Surface selectivity: The importance of the electrode interface in steering electrolyte stability

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3819521: Mobility of ions on humid mineral surfaces: New insights from non-equilibrium molecular dynamics

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3817957: Tri-cure hybrid organo-silicon coatings for structural and monument preservation

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3828938: Site-selective C-H functionalization by photoinduced pyridine N-oxide based HAT catalyst

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3821290: Anionic lipid regulation of receptor tyrosine kinase dimerization in live cells: A PIE-FCCS study

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3826018: Plasticizing capabilities of glycerol: Acetic acid and choline chloride: Urea in potato thermoplastic starch film

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3822224: Spectral analysis of MOFs for decontamination of chemical warfare agents

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3830615: Impact of net-zero carbon fuels on the reactivity of emissions control catalysts for green-house gas reduction

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3824642: Reactivity and mechanism of high-valent chromium-oxo porphyrins in sulfoxidation reactions

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3822101: Gas phase catalyst-free esterification of fatty acids

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3801539: Non-isocyanate polyurethane bio-foam with inherent heat and fire resistance

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3825287: Aptamer modification for microRNA 17~92 cluster detection

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3818870: Designing an interactive musical periodic table: Sonification of visible element emission spectra

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3824897: Tailoring surface behavior of hollow glass microspheres with poly(ethylene glycol methacrylate) polymer brushes

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3816032: Durable radiative cooling coating via nanoparticles evaporation-driven assembly against environmental aging

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3826809: Developing more stable, robust, and efficient organic semiconducting materials

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3826247: Fluorescent yellow method for collecting fingerprints on porous materials

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3818292: Measurements and modeling of radical chemistry below the canopy of a northern Michigan forest

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3822607: Organolithium chemistry using dichloromethane as solvent

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3816607: Why did Linus Pauling publish only one paper on the theory of strong electrolytes?

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3812969: Revealing the decomposition mechanisms of lithium hexafluorophosphate in battery electrolytes and interphases by first-principles simulations

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3822132: Sustainable, iron-catalyzed alcohol oxidations with a biomass-derived terminal oxidant

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3826018: Plasticizing capabilities of glycerol: Acetic acid and choline chloride: Urea in potato thermoplastic starch film

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3823026: Quantitative identification of nonpolar perfluoroalkyl substances by mass spectrometry without chromatographic separation

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3828006: Organic chemistry ranking web application designed for undergraduate organic chemistry courses

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3816684: Does low pH influence the conformation of the SARS-CoV-2 spike glycoprotein?

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3816671: Accelerating chemistry research through the integration of data science with high-throughput experimentation

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3802880: Can one Pt atom stabilize a cage-like structure composed of 17 Sn atoms?

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3816962: Pilot-scale hydrothermal liquefaction of wet biowaste

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3824990: Hollow porous bimetallic platinum-rhodium shell based nanocomposite for combined tumor therapy

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3827544: Time-revolved study on carboxylic-acid functionalized organic electrochemical transistor

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3823291: Crystallization pathways and interfacial drivers for the formation of hierarchical architectures

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3813524: Equilibria and mechanical properties in copper(II) crosslinked bipyridine terminated poly(dimethylsiloxane)

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3826585: Peering into batteries: Insights gained through in-situ and operando methods

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3827681: Study of zeolite deactivation mechanisms due to biomass conversion to biofuel

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3818689: Encouraging engagement via formative assessments in a GOB chemistry course

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3826673: Selective reduction of O₂ with H₂ via Hydroxyquinone mediators in H₂O₂ synthesis

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3827504: Determination and comparison of xanthophyll carotenoid content in age related macular degeneration vitamins versus vegetables through UV-visible spectrometry and high performance liquid chromatography

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3824672: Diverse total syntheses of 5-HT receptor agonists: Ergot, clavine, and unnatural alkaloids

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3820366: Understanding anion-insertion-assisted Ferro- and Ferri-Hydroxides conversion at low alkalinity using operando tools

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Tesfay Tesfatsion

3813965: THCv and HHC in vitro studies and their impact on cancer

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3802931: Highly regio- and diastereoselective tethered aza-Wacker cyclizations of alkenyl phosphoramidates

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3823594: Effect of nanocrystal size and surface chemistry on indium phosphide quantum dot vibrational structure

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3826602: Developing a glucose monitoring laboratory exercise for an experimental chemistry course for nursing majors

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3820748: Induced-charge electrophoretic microsensors: Label-free, particle motion-based biosensing

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3826756: Competitive adsorption between monoclonal antibodies and non-ionic surfactants at the air-water interface

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3817723: Optimizing simulations protocols for relative free energy calculations

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3817495: Tuning viscoelasticity of multi-stimuli responsive polyelectrolytes and composites

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3826516: Confinement-sensitive cholesteric liquid crystals in electrospun nanofibers

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3812647: Synthesis, characterization, and computational studies of fluorinated pyridazines for biological applications

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3823331: Copolymerization kinetics of vinylbenzyl trioctyl phosphonium chloride and n-butyl acrylate

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3826387: Fractionation of mushroom stems to various bioactive molecules and processing chitin to hydrogel for wound healing application

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3817719: The high potential of renewable materials in sustainable energy storage devices

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3818046: Characterization of patterned chemically-fueled hydrogels

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3804876: Unique online video e-book with homework

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3812864: PEDOT nanoparticles: A tool to enhance 3D charge percolation within conductive biomaterials

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3825432: Time resolved emission studies of amino acid partitioning into model biological membranes

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3818690: Exploring the chemical and physical effects of polymer substituents on gas separation performance

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3821345: I believe you can

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3823919: Microfluidic assembly of fused membrane coated drug nanoparticles

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3822133: Deacetylated sialic acids modulate multi-drug resistance in colon and lung cancers via breast cancer resistance protein (BCRP/ABCG2)

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3825048: Chiral-specific spectroscopy of ordered assemblies

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3825543: Heterogeneous multinuclear nickel catalyst supported by a crosslinked alpha-Diimine ligand network

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3817512: Something smells pHishy: A method for testing adaptability of pH sensing organ in *P. japonicus*

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3810396: Quasi Markov state models explains the role of bacterial RNA polymerase loading gate and trigger loop dynamics in antibiotics inhibition

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3815078: Design, synthesis, and evaluation of potential dual-target inhibitors of Mycobacterium tuberculosis InhA and HadA and their antitubercular activities

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3828158: Self-supported dirhodium(II) heterogeneous catalyst: An efficient nitrene transfer

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3819461: Concentrating, recovering, and quantification of lithium from simulated seawater using three-dimensional MnO₂-silicon oxide nanoporous particles

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3806727: Visible light-mediated, highly stereoselective epimerization of morpholines and piperazines to the more stable isomers

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3827104: Square wave voltammetry with aptamer-modified platinum microelectrodes and methylene blue as redox probe for the determination of neuropeptide Y

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3828989: Co-intercalated zirconium phosphate nanoparticles with cisplatin and doxorubicin as a possible novel anticancer therapy treatment

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3812842: Electrochemical synthesis of single shape defined Au nanoparticles

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3822046: Synthesis and characterization of poly(cyclic trimethylolpropane formal acrylate) (PCTFA): A common material in VPP 3D printing

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3818517: Transcriptomic analysis of loratadine as an antibiotic adjuvant against MRSA

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3821644: Wavelength-dependent photochemistry of styrene azide

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3808129: Synthesis of heteroatom-rich aromatic donors and charge transfer complexes for superconductivity

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3827734: Exploring the origin of magnetic relaxation in transition metal-based single-molecule magnets

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3823875: Investigation of hemicellulose and cellulose interactions for all-polysaccharide based hydrogels

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3822010: Fluorescent nematicidal chalcones

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3820562: Enhanced deoxyfluorination and sulfur fluoride exchange (SuFEx) chemistry via sulfone iminium fluorides

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3822240: Regio- and enantio-selective synthesis of 1,4-diols from 1,4-dienes via a unique chiral chloroborane

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3809583: Environmental injustice across Houston neighborhood

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3826756: Competitive adsorption between monoclonal antibodies and non-ionic surfactants at the air-water interface

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3820508: Testing crystal structure predictions with low-frequency vibrational spectroscopy

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3815966: "Chinese paintings" on gel surface through a wetting-enabled-transfer (WET) strategy

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3814498: PET-RAFT increases uniformity in polymer networks

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3812118: Coupling alkenes and amines via a dication pool strategy

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3812736: Recovering carbon losses and improving carbon utilization efficiencies in CO₂ electrolysis

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3825822: Translating undergraduate research to teaching

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Qunsong Wang

3807968: Biodegradable polymeric occluder for closure of atrial septal defect with interventional treatment of cardiovascular disease

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Song Wang

3819825: Undergraduate biochemistry students' conceptions of G protein function: A qualitative study

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Xianjun Wang

3822591: Rheological properties of glycopolymer-based physical gels for potential transcuticular drug delivery

Division: PMSE

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3820928: Structural diversity in dimension-controlled assemblies of tetrahedral gold nanocrystals

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3816704: Designed disulfide staple leads to the first-ever structure of a key intermediate in coronavirus cell entry

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3805724: Magnetic liposomal phase convertible nanodroplets as bimodal contrast agent for ultrasound and magnetic resonance imaging

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3817609: Feasibility of $\text{Bi}_4\text{MO}_8\text{Cl}$ – $\text{Bi}_2\text{LnO}_4\text{Cl}$ (M=Ta, Nb, V; Ln=Y, La, Gd) intergrowth formation

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3828926: Chemical epistemology: Understanding why people think the way they think as the first step towards a sustainable future

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3819677: Characterization of tensile deformation in steel with non-linear optics

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3821759: Using crystals of photodynamic α -azido-acetophenone derivatives to lift weight in correlation to their intermolecular forces

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3808074: Synthesis, biological evaluation, and molecular modeling of novel imidazobenzodiazepines to identify lead compounds for the oral treatment of asthma

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3805052: Direct air capture of CO_2 via mineral looping: How to overcome passivating layers

Division: GEOC

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3828439: Biological analysis of new PROTACs for downregulation of sphingosine kinase 1

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3826704: f-ccCA: A correlation consistent composite approach for the lanthanide species

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3822132: Sustainable, iron-catalyzed alcohol oxidations with a biomass-derived terminal oxidant

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William Wetzel

3823639: Spiral reviews in undergraduate general chemistry courses

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Robert Wexler

3823489: Extended Born-Haber cycle for explaining oxygen-chlorine chemisorption scaling on transition metals

Division: CATL

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3825421: H₃⁺ formation from CH₃X, where X= halogens and pseudohalogens

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3805108: Using the language of safety preparation

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3818941: Student experiences in the UIC STEM Initiative CoLab Program

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Luke Wilczek

3825019: Laboratory courses are opportunities to arm students with increased self-efficacy and science identity with the goal of increasing diversity in STEM

Division: CHED

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Gwenith Wiley

3828702: Metal-organic coordination polymers constructed from complexes of 3d metal ions and photosensitizer ruthenium(II)-polypyridyl building blocks

Division: INOR

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Kalyn Wiley

3818528: Enantioselective synthesis of quaternary carbon phenanthridinones using the Birch-Heck sequence

Division: CHED

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Brandi Williams

3825557: Optimizing a wastewater surveillance system to monitor and semi-quantify SARS-CoV-2 RNA

Division: CHAS

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Ashleigh Wilson

3822895: Effect on SPPs when incorporating an electrochromic polymer with metamaterials

Division: PMSE

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Kaleb Winfield

3812940: Stereoselective synthesis of 6"-orthogonal α -galactosylceramides for vaccine development

Division: CARB

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Jane Wissinger

3830897: Creating a departmental culture of sustainable and green chemistry practices

Division: CHED

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Esther Woo

3819274: Representation in STEM: Re(Imagining) the definition of a scientist

Division: CHED

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Mark Woollam

3820311: Canine-inspired detection of prostate cancer by chemometric analysis of volatile organic compounds in urine headspace

Division: ANYL

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Rachel Worden

3818996: Synthesis and characterization of saccharide containing Janus glyco-dendrimersomes for utilization in hydrophobic dye delivery

Division: POLY

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Cameron Wright

3821237: Ultrafast studies of single gold nanostructures

Division: PHYS

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Jingjie Wu

3827853: Navigating the selectivity toward a single C2 product in CO2 electroreduction

Division: CATL

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Joe Wu

3807944: Role of hydration and conformational reorganization in binding

Division: COMP

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Xia Wu

3809216: Molecular origins of the emissive closed forms of rhodamines: Towards the development of dual-emission rhodamine derivatives

Division: COMP

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Yuhao Wu

3828255: Marine aerosols and urban aerosols are different in surface properties -- using second harmonic scattering to observe the organic surfactant partition at the aerosol surface

Division: COLL

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Ling-Ping Xiao

3822539: Catalytic hydrogenolysis of lignin into monomeric phenols over a copper-based catalyst

Division: ENFL

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Jiaqi Xu

3805438: Antigen-bearing outer membrane vesicles as tumour vaccines produced in situ by ingested genetically engineered bacteria

Division: COLL

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Kunyu Xu

3816523: Study on interface performance and hydrophilic-lipophilic regulation of amphiphilic Silicon-based Janus nanoparticles

Division: COLL

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Tao Xu

3812067: Electrocatalytic carbon dioxide conversion to multicarbon organic liquids at high single product Faradaic efficiency and low over potential

Division: CATL

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Tingying Xu

3819544: Effects of Zn on biomineralization of manganese oxides by a novel Mn-oxidizing fungus (*Curvularia lunata* TC-1)

Division: GEOC

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Wenyang Xu

3824155: Interfacial engineering of nanocellulose substrates by solid-state polymer adsorption

Division: CELL

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Xiaotian Xu

3819032: Quantifying the impact of organic films on cloud condensation nuclei activity using a particle-resolved model

Division: ENVR

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Yang Xu

3824161: Quantitative and qualitative analysis of aviation fuel by comprehensive two-dimensional gas chromatography with mass spectrometry

Division: ENFL

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Ibrahim Yaagoob Mohamed

3824498: Homo- and co-cyclopolymers containing symmetrical motifs of (diallylammonio)diacetate

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Mahesh Yadab

3828075: Efficient synthesis of the unnatural amino acid N-Boc-Adda amino

Division: ORGN

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Kunran Yang

3820546: High-throughput screening of phase transition CO₂ sorbents: first-principles calculations and experimental validations

Division: ENFL

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Kunwei Yang

3826621: Vibronic coherence of canthaxanthin in the orange carotenoid protein in the photoactivated red state

Division: PHYS

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Ming Yang

3812545: Proper spacing between supported metals to leverage the catalytically active supports: A case study of atomically dispersed Pt on α -MoC for RWGS reaction

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Wenxi Yang

3828106: Changes in selected odorants in basil during growth and development

Division: AGFD

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Fei Yao

3803866: Two-dimensional post-graphene materials for clean energy applications
Division: ENFL
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Gang Yao

3813331: Best practices for DNA-encoded library screening
Division: MEDI
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Faith Yarberry

3817605: Supplemental instruction improves retention rates and study skills in freshman and sophomore chemistry courses
Division: CHED
Indiana Convention Center

Faith Yarberry

3817717: Exciting rural Arkansas with chemistry
Division: CHED
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Hongzhou Ye

3812760: Quantum chemistry “gold standard” for quantitative surface chemistry
Division: COMP
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Jianchao Ye

3857027: Laser sintering of solid-state electrolytes
Division: ENFL
Indiana Convention Center

Yuhang Ye

3820915: Ultrastretchable ionogel with extreme environmental resilience through controlled hydration interactions
Division: CELL
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Tai-Sheng Yeh

3822508: Application of open source visual programming software for introducing chemometrics

Division: CHED

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Grace Yocum

3826040: Water solubility structure activity relationship of chalcones for aqueous applications

Division: ORGN

Indiana Convention Center

Pulan Yu

3817425: Integrated AlphaFold based protein modeling and virtual high throughput screening (vHTS) approach for hit generation and target discovery

Division: AGRO

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Shen-Wei Yu

3827133: Determining the reaction mechanism of oxygen evolution reaction on electrocatalysts using in situ differential electrochemical mass spectrometry

Division: CATL

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Simuck Yuk

3817213: Mechanistic insights into hydride formation on graphene-supported metal nanostructures

Division: CATL

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Leah Zahn

3819869: Metal ion-counterion effects on Lewis acid-mediated sulfur-fluoride exchange

Division: ORGN

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Salvatore Zarrella

3828219: Low-frequency Raman spectroscopy of phase transitions in benzocaine polymorphs

Division: PHYS

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Xuyao Zeng

3820545: Quantitative N-glycoproteomic study of diabetic mouse keratinocyte cells and exosomes reveals site-specific changes

Division: ANYL

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Yan Zeng

3822000: AI-driven autonomous laboratory for inorganic solid-state synthesis

Division: CATL

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Maha Zewail-Foote

3823275: Crisscrossing learning experiences in an undergraduate research-based laboratory course to promote inclusion and belonging

Division: CHED

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Ning Zhan

3817287: Preparation, characterization, and performance of algal-control hydrogel

Division: GEOC

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Dong Zhang

3804726: De novo design of allochroic zwitterions

Division: PMSE

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Jialiang Zhang

3816974: In-situ solid-state NMR spectroscopy of lignin model polymer disassembly

Division: ENFL

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Jingxuan Zhang

3823048: Cellulose nanofiber-based sustainable barrier layer for novel food packaging

Division: CELL

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Long Zhang

3815766: Electric molecular motor

Division: ORGN

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Mairui Zhang

3819720: Lignin-derived polyurethane foam for eco-friendly insulation material applications

Division: CELL

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Ruya Zhang

3816491: Electrochemical biomass upgrading for hybrid water electrolysis via cobalt based catalyst

Division: ENFL

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Shuyuan Zhang

3821225: Novel design of catholyte for redox flow batteries

Division: ENFL

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Zisheng Zhang

3812693: Unriddling the cationic and pH effect in alkaline hydrogen evolution reaction on Pt

Division: CATL

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Ruiyang Zhao

3813453: pH-responsive nanoparticle library with precise pH tunability by copolymerization with non-ionizable monomers

Division: COLL

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Zhu Zhao

3828620: Decellularized plant biomaterials for vascularized tissue engineering and drug delivery

Division: CELL

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Jonathan Zheng

3816093: Calculating pKas and ionic rate constants in diverse solvents using COSMO-RS

Division: COMP

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Yue Zheng

3811090: Synthesis and characterization of long-chain (C20 ~ C48) fatty acid amides (FAAMs) from soybean oil and alkyl amines for phase change material applications

Division: PMSE

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Chengshuang Zhou

3825988: Engineering C-C coupling at catalyst interfaces

Division: CATL

Indiana Convention Center

Miao Zhou

3816519: Hybrid 0D/2D edamame shaped ZnIn₂S₄ photoanode modified by Co-Pi and Pt for charge management towards efficient photoelectrochemical water splitting

Division: ENFL

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Jiaying Zhu

3825890: Superelastic, ultralight, and multifunctional aerogels assembled by hemp microfibers

Division: CELL

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Yueqiang Zhu

3816210: Magnetically actuated active deep tumor penetration of deformable nanocarriers for enhanced cancer therapy

Division: COLL

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