



## ACS Fall 2022

Sunday, August 21, 2022 - Thursday, August 25, 2022

### Sunday, August 21, 2022

08:00AM - 11:35AM	- Emerging Areas in Inorganic Chemistry: Room: W178a	Charles Machan Kate Waldie
08:00AM - 08:05AM	- Introductory Remarks Room: W178a	
08:00AM - 11:30AM	- F. Albert Cotton Award in Synthetic Inorganic Chemistry: Symposium in Honor of Douglas Stephan: Room: W180	Gabriel Menard
08:00AM - 08:10AM	- Introductory Remarks Room: W180	
08:00AM - 11:15AM	- George A. Olah Award in Hydrocarbon or Petroleum Chemistry: Symposium in Honor of T Brent Gunnoe: Room: W181a	Maurice Brookhart Karen Goldberg William Jones Joseph Templeton
08:00AM - 08:05AM	- Introductory Remarks Room: W181a	
08:00AM - 11:45AM	- International Crossroads of Organometallic and Group V Chemistry: Room: W178b	Derek Gates John Protasiewicz Rainer Streubel
08:00AM - 08:30AM	3741594 - Taming reactive heavy pnictogen species: Carbones as a molecular platform for the stabilization of stibenium and bismuthenium ions Room: W178b	Robert Gilliard
08:00AM - 11:55AM	- Solid-State Inorganic Chemistry: Room: W186c	Claus Lugmair Nimai Pathak Assistant Professor Viktor V Poltavets , Ph.D. Xianli Wang
08:00AM - 08:20AM	3740493 - Spatiotemporal route to understanding metal halide perovskitoid crystallization Room: W186c	Alex Norquist Joshua Schrier

**Sunday, August 21, 2022**

08:00AM - 10:55AM	- Main Group Chemistry: Room: W181b	Todd Hudnall Michael Rose
08:00AM - 08:20AM	3730821 - Bis(boryl)acetal as key intermediates to use CO <sub>2</sub> as a C <sub>n</sub> source Room: W181b	sarah desmons Dan Zhang Carlos Jarava Barrera Sebastien Bontemps
08:00AM - 12:00PM	- Organometallic Chemistry: Catalysis-Late Transition Metals: Room: W179b	C. Rose Kennedy Nora Radu Alan Goldman
08:00AM - 08:20AM	3738664 - Reductive and oxidative reactivity via ligand-based non-innocence in a redox series of cobalt complexes Room: W179b	Sophie Whitmeyer John Anderson
08:00AM - 12:00PM	- Lanthanide & Actinide Chemistry: Lanthanide and Actinide Chemistry Room: W179a	Suzanne Bart Tori Forbes Assistant Professor of Chemistry Jerome R. Robinson Aaron Tondreau
08:00AM - 08:20AM	3754918 - Withdrawn Room: W179a	
08:05AM - 08:30AM	3743945 - Uranium and neptunium imidophosphorane mono-oxo complexes Room: W178a	Henry La Pierre Julie Niklas Natalie Rice Tiffany Barker Luis Aguirre-Quintana John Bacsá Professor Laurent Maron Ivan Popov
08:05AM - 08:30AM	3738124 - New reactivity for high-valent Fe-X and Mn-X complexes Room: W181a	John Groves
08:10AM - 08:30AM	3750610 - Mechanically interlocked linkers in metal-organic frameworks Room: W180	Stephen Loeb
08:20AM - 08:40AM	3741680 - Enhancing orbital interactions across vacancies in halide perovskites using high pressure Room: W186c	Nathan Wolf Wendy Mao Hemamala Karunadasa
08:20AM - 08:40AM	3725741 - Organophosphorus bifunctional lithium borate salts Room: W181b	PhD Candidate Emalyn Delgado Rosario Michael Rectenwald Postdoc Joshua Gaffen Arnold Rheingold John Protasiewicz

**Sunday, August 21, 2022**

08:20AM - 08:40AM	3741882 - Hydrogen evolution reaction enhancements via cobalt complexation with a softer polypyridyl ligand in neutral water Room: W179b	Dan McCool Ping Wang Bruno Donnadieu Charles Webster Xuan Zhao
08:20AM - 08:40AM	3752831 - Hemilabile phosphorus tethered to f-block elements Room: W179a	Aaron Tondreau Yury Minko Shikha Sharma
08:30AM - 08:55AM	3738359 - New avenues for controlling activity and selectivity in oxygen reduction – reactive-oxygen species of the rare-earth metals Room: W178a	Assistant Professor of Chemistry Jerome R. Robinson Mehmed Ertem Natasha Vargo Graduate Student Matthew J Lueckheide Graduate Student Alexander M Brown Peter Saghy
08:30AM - 08:50AM	3735064 - Allenic phosphonium borate zwitterions via a transient phosphonium allenylidene Room: W180	Lucas Torres Christopher Caputo
08:30AM - 08:55AM	3740850 - Mechanistic investigation of catalyzed methane partial oxidation Room: W181a	William Goddard Charles Musgrave
08:30AM - 09:00AM	3744267 - In single electron transfer steps from 3D cluster to 2D cycles: Redox-chemistry of a Gemadiphosphapyramidane Room: W178b	Hansjorg Grutzmacher
08:40AM - 09:00AM	3753347 - X-ray probes of Yb <sup>3+</sup> dopants in perovskite cesium lead chloride Room: W186c	Kyle Kluherz Sebastian Mergelsberg David Sommer Scott Dunham DeYoreo Jim Professor Daniel R Gamelin
08:40AM - 09:00AM	3739396 - Group 15 porphyrin chemistry Room: W181b	Prashanth Poddutoori
08:40AM - 09:00AM	3743036 - Cobalt-catalyzed hydroalkoxylation and hydrocarboxylation of 2-azadienes through radical polar crossover Room: W179b	Graduate Student Juan Serviano Erik Phipps Patrick Holland
08:40AM - 09:00AM	3717799 - Electrochemical investigation of higher oxidation states of actinides Room: W179a	Nicholas Cicchetti Artem Gelis
08:50AM - 09:10AM	3742294 - Withdrawn Room: W180	

**Sunday, August 21, 2022**

08:55AM - 09:20AM	3741301 - Insights into electrocatalytic oxidation reactions using first-row transition metal complexes Room: W178a	Kate Waldie
08:55AM - 09:20AM	3738727 - Well-defined catalytic materials for the oxygen evolution reaction Room: W181a	Sen Zhang
09:00AM - 09:30AM	3754289 - Mechanistic insight into the ring-opening polymerization of [PCI <sub>2</sub> N] <sub>3</sub> in the presence of HCl and PCI <sub>5</sub> Room: W178b	Yuan Xue Valentin Gogonea Claire Tessier
09:00AM - 09:20AM	3754144 - New family of hybrid thiocyanate-halide compounds Room: W186c	Alexander Milder Tianyu Liu Patrick Woodward
09:00AM - 09:20AM	3741086 - Withdrawn Room: W181b	
09:00AM - 09:20AM	3743333 - Synthesis and reactivity of (Pybox)Os and (Pybox)Ru complexes: Comparison with isoelectronic (Phebox)Ir complexes Room: W179b	Ashish Parihar , PhD Candidate Santanu Malakar Thomas J. Emge Alan Goldman
09:00AM - 09:20AM	3744632 - Reactivity of uranium-nitrogen multiple bonds Room: W179a	Suzanne Bart
09:10AM - 09:30AM	3734018 - Carbon with 6, 5 and possibly 4 electrons around Room: W180	Guy Bertrand
09:20AM - 09:45AM	3751244 - Inorganic and organometallic strategies for bioconjugation Room: W178a	Alexander Spokoyny
09:20AM - 09:35AM	- Intermission Room: W181a	
09:20AM - 09:40AM	3746778 - Thermal- and photo-induced reversible rotation of ferrocene complexes in crystals Room: W186c	Chi-Hsien Wang
09:20AM - 09:35AM	- Intermission Room: W181b	
09:20AM - 09:40AM	3744482 - Mechanistic studies of alkane dehydrogenation by a (phenyl-di-(xylyl)imine)iridium complex Room: W179b	Soumyadipa Das Santanu Malakar Alan Goldman
09:20AM - 09:40AM	3739734 - Revealing bonding nature of uranium complexes: From X-ray absorption to resonant inelastic scattering Room: W179a	Postdoc Lei Xu Joseph Kasper Mark Croce Stosh Kozimor Enrique Batista Ping Yang

**Sunday, August 21, 2022**

09:30AM - 09:50AM	- Intermission Room: W180	
09:30AM - 10:00AM	3737187 - Exploring flatland at bi: Ligand-controlled lewis acid and redox chemistry at planar trivalent bismuth centres Room: W178b	Saurabh Chitnis Toren Hynes Tyler Hannah
09:35AM - 10:00AM	3725940 - Earth abundant non-porphyrinic molecular transition metal catalysts for dioxygen reduction Room: W181a	Charles Machan Shelby Hooe Asa Nichols Emma Cook Mahdi Boroujeni
09:35AM - 09:55AM	3744098 - Synthesis and optical studies of 4-coordinate boraflorenes Room: W181b	Michael Pennington Associate Professor Paul A Rupar
09:40AM - 09:55AM	- Intermission Room: W186c	
09:40AM - 10:00AM	3755253 - Alkane dehydrogenation using molecular oxygen and quinones catalyzed by a 4-pyridinyl pincer iridium dihydride Room: W179b	Tariq Bhatti Nicholas Lease Alan Goldman
09:40AM - 10:00AM	3742787 - Impacts of Li <sup>+</sup> interactions on the vibrational features of Np(V), Np(VI), and Np(VII) solutions and solid materials Room: W179a	Tori Forbes
09:45AM - 09:55AM	- Intermission Room: W178a	
09:50AM - 10:10AM	3736787 - Molybdenum complexes for ammonia oxidation Room: W180	Warren Piers C. Christopher Almquist Nicole Removski Thayalan Rajeshkumar Professor Laurent Maron Benjamin Gelfand
09:55AM - 10:20AM	3753604 - Nanoclusters act as seeds for the growth of anisotropic nanoparticles Room: W178a	Matthew Jones
09:55AM - 10:15AM	3754186 - Solid-state reactivity of metal trifluoroacetates Room: W186c	Hashini Munasinghe Marcos Imer Regina Szlag Leopoldo Suescun Associate Professor of Chemistry Federico A Rabuffetti
09:55AM - 10:15AM	3755628 - Synthesis and magnetism of antimony- vs phosphine-supported cobalt(II) halides Room: W181b	Michael Rose Liam Taylor Brenna Cashman

**Sunday, August 21, 2022**

10:00AM - 10:25AM	3736926 - Withdrawn Room: W181a	
10:00AM - 10:15AM	- Intermission Room: W178b	
10:00AM - 10:20AM	3742016 - Synthetic cycle for heterocycle synthesis by nitrogen insertion mediated by an osmium(VI) nitride Room: W179b	Patrick Kelly Mark Levin
10:00AM - 10:20AM	3752674 - Synthesis and reactivity of an(IV) hexanuclear clusters Room: W179a	Graduate Student Tom McCusker Anamar Blanes-Diaz Karah Knope Nicole Vanagas
10:10AM - 10:30AM	3757776 - Capture and release of metals of energy importance using redox-switchable carboranes Room: W180	Gabriel Menard
10:15AM - 10:45AM	3741334 - Li/Cl phosphinidenoid complexes: Broadening the scope Room: W178b	Rainer Streubel
10:15AM - 10:35AM	3734469 - Doping and defects driven tuneable optical and ferroelectric properties in Eu <sup>3+</sup> and Tb <sup>3+</sup> doped CaTiO <sub>3</sub> Room: W186c	Nimai Pathak Kawsar Ali Abdulelah Alolayan Balaji Mandal Yuanbing Mao
10:15AM - 10:35AM	3749840 - Phospha-Wittig type reaction for the synthesis of imidazoliumyl-substituted phosphalkenes and phosphanides Room: W181b	Philipp Royla Kai Schwedtmann Jannis Fidelius Zeyu Han Derek Gates Antonio Frontera Jan Weigand
10:20AM - 10:45AM	3738746 - Atomically precise nanoclusters with an edge: Molecular insights into single atom catalysts Room: W178a	Assistant Professor Alexandra Velian
10:20AM - 10:40AM	3742843 - Magic of tris-isopropyl-1,4,7-triazacyclononane: The ideal assistant for low-valent and high-valent nickel in catalysis Room: W179b	Leonel Griego Liviú Mirica
10:20AM - 10:40AM	3741670 - Synthesis, structure, and properties of mononuclear Y(II) and Dy(II) complexes Room: W179a	Rashmi Jena Francis Delano IV Florian Benner John McCracken Selvan Demir Aaron Odom
10:25AM - 10:50AM	3756110 - Correlating free energy surfaces for catalyst development Room: W181a	Hunter Pauker Robert Nielsen Robert Nielsen

**Sunday, August 21, 2022**

10:30AM - 10:50AM	3737255 - Metal complexes of a chelating anilido-fluorenyl ligand Room: W180	Jason Masuda
10:35AM - 10:55AM	3742179 - Microwave synthesis of Ln-ReOX as RGB phosphors Room: W186c	Oh Jongwon Seok Yoon
10:35AM - 10:55AM	3750436 - Aza-, diaza- and triazaphospholium salts via 1,3-dipolar cycloaddition reactions Room: W181b	Jannis Fidelius Kai Schwedtmann Moritz Fink Felix Hennersdorf Jan Weigand
10:40AM - 11:00AM	3754447 - Novel water oxidation catalysts bearing sulfonate coordinating groups Room: W179b	Jake Kerkhof Colton Breyer Diane Smith Gregory Elliott Douglas Grotjahn
10:40AM - 11:00AM	3755458 - Employing Dibenzocyclooctatetraene in lanthanide chemistry Room: W179a	Elizabeth Pugliese Ernesto Castellanos Selvan Demir
10:45AM - 11:10AM	3733647 - Modulation of activity in MOF-based catalysts via post-synthesis modification Room: W178a	Pricilla Matseketsa Kanchana Samarakoon Tendai Gadzikwa
10:45AM - 11:15AM	3737929 - Studying the potential of small P-heterocycles as novel monomers Room: W178b	Arturo Espinosa Rainer Streubel
10:50AM - 11:10AM	3743026 - Wearable electronics using a textile-centric design approach Room: W180	Tricia Carmichael Yunyun Wu Sara Mechael
10:50AM - 11:15AM	3734811 - Rapid synthesis of topologically complex molecules with tungsten dearomatization agents Room: W181a	W. Dean Harman
10:55AM - 11:15AM	3741717 - Sc <sub>2</sub> Mo <sub>3</sub> O <sub>12</sub> :Eu <sup>3+</sup> : A red phosphor with superior thermally enhanced emission Room: W186c	Forough Jahanbazi Yuanbing Mao
11:00AM - 11:20AM	3755540 - Deoxygenation of alcohols and polyols by group six metal dioxo complexes Room: W179b	Stefan Kilyanek Cody Canote Kayla Denike Randy Tran Miranda Sanders
11:00AM - 11:20AM	3752012 - Withdrawn Room: W179a	
11:10AM - 11:35AM	3737590 - Dynamic bonding in nanoscale MOFs Room: W178a	Assistant Professor Carl Brozek Checkers Marshall Kevin Fabrizio

**Sunday, August 21, 2022**

11:10AM - 11:30AM	3754085 - Catalytic reactions for phosphinidene transfer to alkenes Room: W180	Michael Geeson Tiansi Xin Martin-Louis Riu Christopher Cummins
11:15AM - 11:45AM	3737792 - Accessing the cyaphide ion: A new building block for chemical synthesis Room: W178b	Jose Goicoechea
11:15AM - 11:35AM	3743237 - Effect of ethyl cellulose on defining the structural and photo electrochemical properties of CuGaO <sub>2</sub> mesoporous nanocrystalline thin films Room: W186c	Humaira Yeasmin Alexandria Combs Bredar Byron Farnum Byron Farnum
11:20AM - 11:40AM	3744484 - Nitrogen cleavage and catalytic reactivity of a unique dinitrogen-bridged d <sup>4</sup> -d <sup>4</sup> diarylamino-based PNP molybdenum complex Room: W179b	Souvik Mandal , PhD Candidate Santanu Malakar Nicholas Lease Thomas J. Emge Faraj Hasanayn Alan Goldman
11:20AM - 11:40AM	3739883 - Density functional theory studies of Ln(II) molecular spin qubits illuminate the electronic origin of their large hyperfine interactions Room: W179a	Jason M. Yu Yannick Franzke Filipp Furche Krishnendu Kundu Jessica White Samuel Moehring Joseph Ziller William Evans Stephen Hill
11:35AM - 11:55AM	3744702 - Manipulable visible/infrared/ultraviolet persistent luminescence in Pr <sup>3+</sup> -activated phosphors: Status and promises Room: W186c	Xianli Wang Yuanbing Mao
11:40AM - 12:00PM	3748210 - Withdrawn Room: W179b	
11:40AM - 12:00PM	3742430 - Withdrawn Room: W179a	
12:00PM - 02:00PM	- Inorganic Catalysts: Inorganic Catalysts Room: Virtual-only	Professor of Chemisrtry Stephen A Koch
12:00PM - 02:00PM	3739923 - Fine-tuning carbon dioxide reduction onset potentials using Hammett parameters in homoleptic cobalt complexes of aryl-substituted quinoline-derived mer-ligands Room: Virtual-only	Daniel Harrison Kaitie Cartwright John Dickenson Jeffry Stober Caleb Brown David Turner
12:00PM - 02:00PM	- Inorganic Spectroscopy: Inorganic Spectroscopy Room: Virtual-only	Codrina Popescu



**Sunday, August 21, 2022**

12:00PM - 02:00PM	3740201 - Luminescent recognition of biothiols based on a cationic NCN Platinum(II) complex in water: Synthesis and spectroscopic studies Room: Virtual-only	Oswaldo Alejandro Viviano Posadas Alejandro Dorazco-González Josue Valdes
12:00PM - 02:00PM	3740222 - Cationic NCN Platinum(II) pincer complex as an efficient luminescent host for Cl <sup>-</sup> and CN <sup>-</sup> ions: Structural and chemosensing studies Room: Virtual-only	Josue Valdes Julio Zamora-Moreno Cristian Pinzón-Vanegas Alejandro Dorazco-González
12:00PM - 02:00PM	- Chemistry of Materials: Materials for Energy & Catalytic Applications: &nbsp; Room: Virtual-only	Claus Lugmair
12:00PM - 02:00PM	3725689 - Halide-driven formation of lead halide perovskites: Insight from ab initio molecular dynamics simulations Room: Virtual-only	Asma A. Alothman Waldemar Kaiser Edoardo Mosconi
12:00PM - 02:00PM	3737014 - Withdrawn Room: Virtual-only	
12:00PM - 02:00PM	3741848 - Engineering the proton substituted sodium vanadate cathode for the ultrafast charging zinc storage Room: Virtual-only	Linlin Zhang Leyuan Shi Caoer Jia
12:00PM - 02:00PM	3743289 - Photocatalytic water splitting by cobalt doped NiTi layered double hydroxide Room: Virtual-only	Sara Samuei Sina Sadigh Akbari Emine Ülker Ferdı Karadas Ferdı Karadas
12:00PM - 02:00PM	- Chemistry of Materials: Synthesis & Properties: Room: Virtual-only	Claus Lugmair
12:00PM - 02:00PM	3729326 - Experimental and computational binding studies of two isomeric nitro-substituted dipodal ureas for anions Room: Virtual-only	Sanchita Kundu Tochukwu Egboluche Julia Saloni Alamgir Hossain
12:00PM - 02:00PM	3729523 - Multifunctional characteristics exhibited by D-A-D structured diethylaminophenol functionalized pyrimidine bishydrazone Room: Virtual-only	Anitha Ottoor MURUGESAPANDIAN BALASUBRAMANIAN
12:00PM - 02:00PM	3729922 - Comparative syntheses of monocyclic and bicyclic 2-trans-6-bis(4-fluorobenzyl)spiro-tetrachlorocyclotetraphosphazenes: Evaluations of spectroscopic and crystallographic properties Room: Virtual-only	Gamze Elmas Aytu? Okumus arzu binici Zeynel Kilic Tuncer Hökelek
12:00PM - 02:00PM	3745321 - Cation distribution in nanostructured ZnFe <sub>2</sub> O <sub>4</sub> spinels: Synthesis, characterization, and structural determination Room: Virtual-only	Ana Murrieta Priscila Sepúlveda-Mireles Flavio Contreras-Torres

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3747140 - Oxygen-assisted anisotropic chemical etching of MoSe <sub>2</sub> for ambipolar-photoresponse transistors Room: Virtual-only	Qing Zhang Dechao Geng Wei Chen Wenping Hu
12:00PM - 02:00PM	3747787 - Racing crystallization mechanism for economical design of single-crystal hollow ZSM-5 with the broken limit of Si/Al ratio Room: Virtual-only	Yi Zhai
12:00PM - 02:00PM	3754063 - AIPE-active Ir(III) complexes with tuneable photophysical properties and application in mitochondria-targeted dual-mode photodynamic therapy Room: Virtual-only	Qing Zhang
12:00PM - 02:00PM	3754389 - Fluorene-decorated Ir(III) complexes: tunable photophysical properties, reverse saturable absorption in solution and aggregated state Room: Virtual-only	Qianqian Pan
12:00PM - 02:00PM	3755190 - Oligophenylene vinylene derivatives: Synthesis and applications in a gold mechanically-controlled break junction Room: Virtual-only	Rashmi Yohani Amarakoon Arachchige Tarek El Assaad Dylan Dyer Ian Winski Oliver Monti Dominic McGrath
12:00PM - 02:00PM	- Chemistry of Materials: Nanomaterials: Room: Virtual-only	Claus Lugmair
12:00PM - 02:00PM	3722665 - Surfactant effects on structural and morphological characteristics of Ag <sub>2</sub> S/Ag heteronanojunctions Room: Virtual-only	Kailin Qiu Shujuan Wang
12:00PM - 02:00PM	3740966 - Softening the rigidity of a nanocluster's inner core by tuning electron donating nature of the surface ligands Room: Virtual-only	Cheng Xu Haixiang Han
12:00PM - 02:00PM	3750162 - Synthesis and characterization of thiolate-protected gold nanoclusters of atomic precision Room: Virtual-only	Shree Patel Xiangsha Du Rongchao Jin
12:00PM - 02:00PM	- Environmental & Energy-Related Inorganic Chemistry: Room: Virtual-only	Kenneth Takeuchi
12:00PM - 02:00PM	3735253 - Withdrawn Room: Virtual-only	
12:00PM - 02:00PM	- Electrochemistry: Electrochemistry Room: Virtual-only	Amy Marschilok
12:00PM - 02:00PM	3738103 - Investigating the photoelectrochemical behavior of naturally extracted anthocyanin-based dyes Room: Virtual-only	Givi Kadagishvili Elene Ivaniashvili

**Sunday, August 21, 2022**

12:00PM - 02:00PM	- George A. Olah Award in Hydrocarbon or Petroleum Chemistry: Symposium in Honor of T Brent Gunnoe: Room: Hall F2	Karen Goldberg William Jones
12:00PM - 02:00PM	3739230 - Comparison of Rh(I) and Pd(II) catalysts for arene alkenylation   Poster Board #2027 Room: Hall F2	Marc Bennett Xiaofan Jia Charles Musgrave William Goddard T Brent Gunnoe
12:00PM - 02:00PM	3739241 - Synthesis and characterization of CoII molecular complexes immobilized onto carbon materials for electrocatalytic water oxidation   Poster Board #2029 Room: Hall F2	Christopher Webber Ana Geer Chang Liu Perrin Godbold Charles Musgrave Shunyan Gu Diane Dickie Staff Scientist Sooyeon Hwang Sayed Elrefaei Hua Zhou Cheng-Jun Sun Ioannis Spanos Sen Zhang William Goddard T Brent Gunnoe
12:00PM - 02:00PM	3742610 - Synthesis, characterization, and reactivity of organometallic cobalt(III) complexes that possess bidentate chiral amine ligands   Poster Board #2031 Room: Hall F2	John Lee Luccas Do Carmo Isaac Flood Bailey Newell Colin McMillen Trevor Paratore
12:00PM - 02:00PM	3742618 - Arene alkenylation using Rh(I) and Ir(I) catalysts   Poster Board #2033 Room: Hall F2	Hannah Ketcham Weihaio Zhu T Brent Gunnoe
12:00PM - 02:00PM	3744255 - Variable isotope effect and multistep pathway for protonolysis of Pt-Me bond   Poster Board #2035 Room: Hall F2	Irving Rettig Nicole Xu Elizabeth Knight Phan Truong Mir Bowering
12:00PM - 02:00PM	- The Chemistry & Biology of Iron Sulfur Clusters: Room: Hall F2	Christine Morrison Daniel Suess
12:00PM - 02:00PM	3732943 - Characterization of the radical S-Adenosylmethionine (SAM) enzymes HydG and NifB by EPR and Mössbauer spectroscopies   Poster Board #2037 Room: Hall F2	David Villarreal

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3740571 - Structural and biochemical characterization of Staphylococcus aureus cysteine desulfurase complex SufSU   Poster Board #2045 Room: Hall F2	Jesse Hudspeth Amy Boncella Emily Sabo Jeffrey Boyd Christine Morrison
12:00PM - 02:00PM	3743066 - One-pot installation of Fe4S4 cubanes into covalent organic frameworks   Poster Board #2047 Room: Hall F2	Robert Santore Joshua Koubek Christine Morrison
12:00PM - 02:00PM	3743324 - Activity analysis of bacterial cysteine desulfurases and their shuttling proteins with selenocysteine as the substrate   Poster Board #2049 Room: Hall F2	Emily Sabo Jesse Hudspeth Amy Boncella Veronica Stark Jeffrey Boyd Christine Morrison
12:00PM - 02:00PM	3753111 - EPR and ENDOR characterization of the Fe-CH3 bond in a model complex for radical SAM organometallic intermediates ? and ?M   Poster Board #2051 Room: Hall F2	Madeline Ho Richard Jodts Youngsuk Kim Daniel Suess Brian Hoffman
12:00PM - 02:00PM	- Medicinal Inorganic Chemistry: Walking the walk from innovation to clinical translation: Room: Hall F2	Assistant Professor Eszter Boros Eric Gale
12:00PM - 02:00PM	3738665 - Unraveling the physicochemical properties of iron nanoparticle drug, ferric derisomaltose, an important drug for treating iron deficiency anemia   Poster Board #2053 Room: Hall F2	Matthew Hursey Sarah Michel
12:00PM - 02:00PM	3740775 - Solid-phase based approaches to the selective capture and release of radiometals   Poster Board #2063 Room: Hall F2	Dariusz Smilowicz Shawn Eisenberg Assistant Professor Eszter Boros
12:00PM - 02:00PM	3747960 - Formation of nickel(II)porphyrin and its interaction with DNA in aqueous medium   Poster Board #2065 Room: Hall F2	Md Quayum Salma Serniabad Mohammad Shamim Khan Rokayea Islam Valentina Rapozzi Masaaki Tabata Professor Ahsan Habib
12:00PM - 02:00PM	3754176 - Development of novel theranostic agents for Alzheimer's disease   Poster Board #2055 Room: Hall F2	Karna Terpstra Zhengxin Yu Livi Mirica
12:00PM - 02:00PM	3754194 - Solid-phase approach to the separation of titanium(IV) and scandium(III) towards applications in nuclear medicine   Poster Board #2061 Room: Hall F2	Angus Koller Assistant Professor Eszter Boros

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3755233 - Unstable metal complexes: Potential applications of metal-based anticancer drugs for intratumoral injections   Poster Board #2067 Room: Hall F2	Aviva Levina Debbie Crans Peter Lay
12:00PM - 02:00PM	- Emerging Areas in Inorganic Chemistry: Room: Hall F2	Charles Machan Kate Waldie
12:00PM - 02:00PM	3732616 - Electrocatalytic reduction of dioxygen to water by a bioinspired non-heme iron complex   Poster Board #2128 Room: Hall F2	Emma Cook Diane Dickie Charles Machan
12:00PM - 02:00PM	3732619 - Mediated inner-sphere electron transfer induces homogeneous reduction of CO <sub>2</sub> via through-space electronic conjugation   Poster Board #2126 Room: Hall F2	Graduate Student Amelia G Reid Juan Moreno Shelby Hooe Kira Baugh Isobel Thomas Diane Dickie Charles Machan
12:00PM - 02:00PM	3738169 - Investigating thermodynamic hydricity via experimental and computational methods   Poster Board #2152 Room: Hall F2	Sriram Katipamula Andrew W. Cook Kate Waldie
12:00PM - 02:00PM	3740202 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3740748 - Redox-active ligand centered reactivity between electron-rich cobalt complexes and electrophiles   Poster Board #2130 Room: Hall F2	Minzhu Zou Kate Waldie
12:00PM - 02:00PM	3741663 - Kinetics of H <sub>2</sub> and CO <sub>2</sub> addition to a Ru hydrogenation catalyst that converts CO <sub>2</sub> to formate   Poster Board #2132 Room: Hall F2	Gary Perea Cheryl Mathis Caroline Saouma
12:00PM - 02:00PM	3741760 - Thermodynamic considerations for carbamate reduction at a Ru catalyst   Poster Board #2134 Room: Hall F2	Andrew Larkin Cheryl Mathis Caroline Saouma
12:00PM - 02:00PM	3743332 - Amine rich iron electrocatalysts in H <sub>2</sub> production   Poster Board #2144 Room: Hall F2	Bhumika Goel Demyan Prokopchuk
12:00PM - 02:00PM	3744191 - Mononitrosyl iron complex (MNIC) formation from the reduction of nitrite to nitrosyl on redox-active, proton-responsive, hemilabile ligand scaffolds   Poster Board #2146 Room: Hall F2	Allison Teigen John Gilbertson Tim Kowalczyk
12:00PM - 02:00PM	3745291 - Withdrawn Room: Hall F2	

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3750947 - Synthesis of 4-(1H-pyrrol-2-yl)pyridine and its application in sulfite sensing   Poster Board #2150 Room: Hall F2	Mallory Thomas Lynn Schmitt Alistair Lees
12:00PM - 02:00PM	3752307 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3754937 - Ruthenium polypyridyl complexes as visible light-cleavable crosslinkers for soft biomaterial modulation   Poster Board #2154 Room: Hall F2	Teresa Rapp Cole DeForest
12:00PM - 02:00PM	- Bioinorganic Chemistry: Proteins & Enzymes & Model Systems: Room: Hall F2	Professor of Chemistry Stephen A Koch
12:00PM - 02:00PM	3737671 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3738183 - QM-cluster modeling of bioremediation and bioconversion studies of lignin with cytochrome P450 Enzyme GcoA   Poster Board #2151 Room: Hall F2	Tejaskumar Suhagia Postdoctoral Associate Reza Hemmati Qianyi Cheng Nathan Deyonker
12:00PM - 02:00PM	3738694 - Catalytic influences of the secondary coordination sphere in an iron halogenase   Poster Board #2153 Room: Hall F2	Ryan Wilson Elizabeth Smithwick Ambika Bhagi-Damodaran
12:00PM - 02:00PM	3738793 - Electrochemical driven hydrocarbon oxidation by a cytochrome P450 BM3 (Bacillus megaterium)/anthraquinone conjugate   Poster Board #2162 Room: Hall F2	Clara Dearden Deirdre Ellis Andrew Udit Michael Hill
12:00PM - 02:00PM	3738923 - Thermodynamic characterization of aqueous hairpin peptides coordinating to Cu(II) and Zn(II)   Poster Board #2127 Room: Hall F2	Fenton Lawler Eric Doorn Kachel Bedow Professor Douglas A Vander Griend
12:00PM - 02:00PM	3739262 - Titanium-binding siderophore from Rhodococcus ruber   Poster Board #2164 Room: Hall F2	Lori Cobani Annastassia Gallo Ann Valentine
12:00PM - 02:00PM	3739361 - Exploring secondary coordination sphere effects in flavodiiron nitric oxide reductase model complexes   Poster Board #2166 Room: Hall F2	Abigail Bracken Hai Dong Yu Zong Michael Lengel Nicolai Lehnert

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3739818 - The three-spin intermediate at the O–O cleavage and proton pumping junction in heme–Cu oxidases   Poster Board #2155 Room: Hall F2	Anex Jose Andrew Schaefer Antonio Roveda Jr. Wesley Transue Sylvia Choi Ziqiao Ding Robert Gennis Edward Solomon
12:00PM - 02:00PM	3740019 - Investigating the condition-independent thermodynamics for zinc binding to histatin 5   Poster Board #2160 Room: Hall F2	Sean Gao Joanna Campbell Terrence Oas Katherine J Franz
12:00PM - 02:00PM	3741379 - Design, engineering, and characterization of switchable artificial metalloproteins (swArMs)   Poster Board #2131 Room: Hall F2	Saman Fatima Lisa Olshansky
12:00PM - 02:00PM	3741733 - TriCyt: A de novo designed metalloprotein scaffold for pursuing complex metal-based functions   Poster Board #2137 Room: Hall F2	Albert Kakkis Derek Gagnon Julian Esselborn Faik Tezcan
12:00PM - 02:00PM	3741809 - Understanding and modeling manganese binding at the host-pathogen interface using coordination chemistry   Poster Board #2149 Room: Hall F2	Assistant Professor Sid Creutz Ryan Gaynor Baylee McIntyre Ge Mu
12:00PM - 02:00PM	3743117 - Nucleophilic attack at the bound NO of cationic group 8 nitrosyl porphyrins   Poster Board #2167 Room: Hall F2	Tsitsi Kapfunde Erwin Abucayon George Richter-Addo
12:00PM - 02:00PM	3743399 - Elucidating the structure of a reactive Ni(IV)(O)(TAML) species with spectroscopy and density functional theory calculations   Poster Board #2135 Room: Hall F2	Virginia Larson Deepika Karmalkar Jason Shearer Wonwoo Nam Nicolai Lehnert
12:00PM - 02:00PM	3743682 - Synthesis and characterization of non-heme iron hyponitrite complexes   Poster Board #2129 Room: Hall F2	Michael Lengel Hai Dong Debangsu Sil Carsten Krebs Nicolai Lehnert
12:00PM - 02:00PM	3743917 - Probing the impact of pyran cyclization on molybdopterin analogues   Poster Board #2163 Room: Hall F2	Graduate Student Kyle J. Colston Mikayla Metzger Partha Basu
12:00PM - 02:00PM	3744030 - Encapsulating large biomolecules in hierarchically-ordered porous materials   Poster Board #2161 Room: Hall F2	XIAOLIANG WANG

Sunday, August 21, 2022

12:00PM - 02:00PM	3749038 - Catalytic disproportionation of hydrogen peroxide by manganese complexes of 12-membered pyridinophane macrocycles   Poster Board #2147 Room: Hall F2	David Freire Katherine Smith Kristof Pota Magy Mekhail Sugam Kharel Kayla Green
12:00PM - 02:00PM	3750129 - Copper-containing enzyme mimics with a polymeric secondary coordination sphere   Poster Board #2165 Room: Hall F2	Brenda Lu Sayori Trejo Lily Gordon Abigail Ramirez Lily Truong Assistant Professor Madalyn Radlauer
12:00PM - 02:00PM	3750580 - Interactions of hydroxylamine species with iron porphyrins   Poster Board #2226 Room: Hall F2	Jennifer Londono
12:00PM - 02:00PM	3750667 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3751778 - YfeX- a new platform for carbene transferase development with high intrinsic reactivity   Poster Board #2228 Room: Hall F2	Hannah Palomino Nicolai Lehnert Victor Sosa Alfaro Christo Christov Sodiq Waheed Martin Weissenborn
12:00PM - 02:00PM	3754913 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3754961 - Computational study of the synergy between the catalytic and structural Zn(II) ions and the protein environment in Matrix metalloproteinase-1   Poster Board #2232 Room: Hall F2	Ann Varghese Shobhit Chaturvedi Bella DiCastrì Emerald Mehler Ciara LaRouche Brendan Kaski Gregg Fields Tatyana Karabancheva-Christova
12:00PM - 02:00PM	3754980 - Large scale conformational dynamics of Matrix metalloproteinase-1?triple-helical peptide complex   Poster Board #2230 Room: Hall F2	Sodiq Waheed Gregg Fields Tatyana Karabancheva-Christova
12:00PM - 02:00PM	3755405 - Copper (II) complexes for Lewis acid-promoted, protein-dependent hybrid catalysis   Poster Board #2234 Room: Hall F2	Alison Duckworth Sarah McClain Mitu Sharma Sean Stokes Joseph Emerson



**Sunday, August 21, 2022**

12:00PM - 02:00PM	3755410 - Effect of intramolecular hydrogen bonding on the properties and redox reactivity of the Mn(III)-hydroxo complexes   Poster Board #2236 Room: Hall F2	Priya Singh Adedamola Abraham Opalade Professor Timothy Jackson
12:00PM - 02:00PM	3756046 - Mixed ligand Ni <sup>2+</sup> thiolate complexes as models for metal-protein interactions   Poster Board #2244 Room: Hall F2	Douglas Corwin Michelle Millar Professor of Chemistry Stephen A Koch
12:00PM - 02:00PM	- Bioinorganic Chemistry: DNA, RNA & Inorganic Drugs: Room: Hall F2	Professor of Chemistry Stephen A Koch
12:00PM - 02:00PM	3738051 - Pro-oxidant strategies in disulfide-masked iron prochelators   Poster Board #2248 Room: Hall F2	Jacob Fussell Elisa Tomat
12:00PM - 02:00PM	3741491 - Advancing a database of metallodrugs and metallodrug candidates   Poster Board #2246 Room: Hall F2	Professor Jose L Medina-Franco Edgar López-López Angelo Frei Mark A. T. Blaskovich
12:00PM - 02:00PM	3743510 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3743804 - Evaluation of the antiproliferation activity of hybrid thiosemicarbazone-alkylthiocarbamate copper complexes   Poster Board #2250 Room: Hall F2	Robert Buchanan Graduate Student Kritika Bajaj Sarah Andres Noela Botaka Dillon Hofsommer Aiden Greene Oleksandr Hietsoi Mark Mashuta Paula Bates Craig Grapperhaus
12:00PM - 02:00PM	3746217 - Synthesis, DNA base-binding properties and anti-tumour capabilities of tetraaza macrocyclic ligand   Poster Board #2254 Room: Hall F2	Emmanuel Ohaekenyem Ikenna Onyido
12:00PM - 02:00PM	3746833 - Analysis of radical scavenging ability in modified small pyridine-containing ligands for therapeutic treatment of neurodegenerative diseases   Poster Board #2260 Room: Hall F2	Christina Mantsorov Kristof Pota Kayla Green
12:00PM - 02:00PM	3751113 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3752798 - Exploring copper trafficking effects of plant-derived biomolecules   Poster Board #2262 Room: Hall F2	Vanessa Lee Marie Heffern

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3755039 - Caged imidazopyrazinone for selective bioluminescence detection of labile extracellular copper(II)   Poster Board #2264 Room: Hall F2	Justin OSullivan Valentina Medici Marie Heffern
12:00PM - 02:00PM	- Chemistry of Materials: Materials for Energy & Catalytic Applications: Room: Hall F2	Claus Lugmair
12:00PM - 02:00PM	3728070 - Doping of ferrocene with anthraquinone derivatives to improve their behavior as semiconductors films for optoelectronic devices   Poster Board #2227 Room: Hall F2	Maria Barcenas Hernandez María Elena Sánchez Vergara
12:00PM - 02:00PM	3732258 - Catalytic reduction of VOCs via Mesoporous titania coated honeycomb structure   Poster Board #2237 Room: Hall F2	gillhwan kim hyunho Lee DHANASHRI DESAI Seongcheol Shin Cholong Kim
12:00PM - 02:00PM	3735745 - CdS quantum dot aerogels with Ni <sub>2</sub> P nanoparticles for photocatalytic water reduction   Poster Board #2233 Room: Hall F2	Vinicius Alevato Neves PhD Candidate Daniel Streater Da Li Chris Acquah Kody Whisnant Jason Blanchet Jier Huang Stephanie Brock
12:00PM - 02:00PM	3738617 - Synthesis of discrete nanoparticles of Ni <sub>2</sub> -xMnxP: Elucidating the role of the secondary metal in dictating the performance of ternary manganese phosphides for water oxidation electrocatalysis   Poster Board #2231 Room: Hall F2	Fatemeh Aghabozorgi Stephanie Brock
12:00PM - 02:00PM	3739173 - Magnesium hydroxide templated porous carbon nanosheets for supercapacitors   Poster Board #2229 Room: Hall F2	YAFEN TIAN Xiangyu Zhu Muhammad Abbas Daniel Tague John Ferraris Kenneth Balkus
12:00PM - 02:00PM	3739409 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3739956 - Adsorption and photocatalysis with fluorinated phthalocyanines   Poster Board #2235 Room: Hall F2	Usha Kalra Abdul Azeez Mohammad Marzabadi Alexander Fadeev Sergiu Gorun James Hanson
12:00PM - 02:00PM	3741649 - Synthesis and characterization of dimensionally controlled catalytically relevant multinary molybdenum chalcogenides for CO <sub>2</sub> conversion   Poster Board #2255 Room: Hall F2	Rose Smiley Graduate student Jessica C Ortiz Jesús Velázquez

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3742867 - Novel copper iodide based organic-inorganic hybrids as LED emissive layer materials   Poster Board #2245 Room: Hall F2	KUN ZHU Jing Li
12:00PM - 02:00PM	3745220 - Application of metal-organic frameworks on dye-sensitized solar cells   Poster Board #2251 Room: Hall F2	Jory Haddad Daniel Kissel
12:00PM - 02:00PM	3745401 - Synthesis and analysis of titanium based metal organic frameworks for photocatalysis   Poster Board #2263 Room: Hall F2	John Kurowski
12:00PM - 02:00PM	3750045 - Graphitized sugarcane biomass for application in supercapacitors   Poster Board #2247 Room: Hall F2	Bruna Bregadiolli Agnes Simões Lauro Kubota Waldir Bizzo Talita Mazon
12:00PM - 02:00PM	3752933 - Solvent effects on multicomponent nanoparticles synthesized by pulsed laser ablation   Poster Board #2249 Room: Hall F2	Octavio Lopez Jibo Zhang Bryan Hunter
12:00PM - 02:00PM	3753966 - Tuning of porphyrin redox properties using alkyl chains   Poster Board #2253 Room: Hall F2	Stefan Charon
12:00PM - 02:00PM	3755513 - Towards better understanding of the surface properties of ruthenium molecular oxygen evolution catalysts   Poster Board #2261 Room: Hall F2	Yosra Badiei Emily Delgado Christina Maldonado
12:00PM - 02:00PM	- Chemistry of Materials: Metal Organic Frameworks: Room: Hall F2	Rebecca Siegelman
12:00PM - 02:00PM	3736144 - MIL-101/reduced graphene oxide nanocomposite for enhanced ammonia adsorption under high pressure   Poster Board #2330 Room: Hall F2	Cheongwon Bae Suhyeon Park Mingyu Gu Yeram Kim Juyeong Kim
12:00PM - 02:00PM	3736963 - Development of MOF-encapsulated hybrid nanostructures for molecular sensing   Poster Board #2346 Room: Hall F2	suhyeon park Moonsub Shim Juyeong Kim
12:00PM - 02:00PM	3738484 - Metal-organic frameworks with single-component white-light-emission and blue emission   Poster Board #2269 Room: Hall F2	Abdul Peedikakkal
12:00PM - 02:00PM	3739534 - Enhancing catalytic activity and mitigating poisoning of active sites within metal-organic frameworks in organophosphate hydrolysis through post-synthesis modification   Poster Board #2332 Room: Hall F2	Sergio Garibay Trenton Tovar Ivan Iordanov Gregory Peterson Jared DeCoste Sergio Garibay

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3740470 - 2,3-Diaryl-5-methylquinoxaline complexes with silver (I) salts   Poster Board #2360 Room: Hall F2	Guy Crundwell Kristen Ellis Alexandra McMahon Rachel Christiana Milyssa Raboin
12:00PM - 02:00PM	3741307 - Metal-organic framework(MOF) based multilevel non-volatile optoelectronic flexible memory   Poster Board #2267 Room: Hall F2	Mujahid Mustaqeem Yang-Fang Chen Pi-Tai Chou
12:00PM - 02:00PM	3741550 - Mechanistic study of direct extraction of fluorine from 2-fluorobenzoic acid by holmium Ion   Poster Board #2350 Room: Hall F2	Hamid Reza Firouzi Kenneth Balkus
12:00PM - 02:00PM	3741553 - Difluorination of per- and polyfluoroalkyl substances (PFAS) by rare-earth ions and construction of fluoro-bridged metal-organic frameworks   Poster Board #2370 Room: Hall F2	Simin Sheybani Kenneth Balkus
12:00PM - 02:00PM	3741905 - Rapid synthesis of a MOF and its use in PFAS adsorption: An undergraduate laboratory experience   Poster Board #2327 Room: Hall F2	Trevor Rottiger Tyler VanOursouw Joseph Mondloch Joseph Mondloch
12:00PM - 02:00PM	3742064 - Design and characterization of zwitterionic cerium(III)-based MOFs   Poster Board #2348 Room: Hall F2	Kirti Sharma Distinguished Professor of Chemistry Mario Wriedt
12:00PM - 02:00PM	3742078 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3742175 - Surface functionalized hafnium metal-organic frameworks for the STING pathway activation to promote antitumor immunity   Poster Board #2362 Room: Hall F2	Eunseo Choi Madeleine Landry Joshua Walker Nathan Pennock Megan Neufeld Conroy Sun
12:00PM - 02:00PM	3742401 - Open metal site effects of metal-organic frameworks for high-pressure ammonia sorption   Poster Board #2328 Room: Hall F2	Mingyu Gu Cheongwon Bae Juyeong Kim
12:00PM - 02:00PM	3743252 - Separation of hydrocarbons in porous materials   Poster Board #2336 Room: Hall F2	Karam Idrees Omar Farha
12:00PM - 02:00PM	3743363 - Exchange of coordinated carboxylates with azolates as a route to obtain a microporous zinc-azolate framework   Poster Board #2354 Room: Hall F2	Kira Fahy Mohammad Mian Megan Wasson Florescia Son Timur Islamoglu Omar Farha

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3743442 - Several new lanthanide containing metal organic frameworks exhibiting fluoro-bridged triclusters and their structural and luminescence properties   Poster Board #2271 Room: Hall F2	Marie Mortensen Muhammad Abbas Gregory McCandless Kenneth Balkus
12:00PM - 02:00PM	3744161 - Effects of intervalence charge transfer interaction between p-stacked mixed valent tetrathiafulvalene ligands on the electrical conductivity of 3D metal-organic frameworks   Poster Board #2265 Room: Hall F2	Shiyu Zhang Dillip Panda Ashok Yadav , Postdoctoral Fellow Wei Zhou Sourav Saha
12:00PM - 02:00PM	3744619 - Andrographolide encapsulation in metal-organic frameworks (MOFs) as a drug delivery system for cancer applications   Poster Board #2364 Room: Hall F2	Wendy Pantoja Romero Yolanda Aysa Brad Weiner Gerardo Morell Joaquin Coronas
12:00PM - 02:00PM	3747016 - Synthesis and anion exchange studies of MOF [Ag(2,4'-bipyridine)]NO <sub>3</sub> for the trapping of perrhenate, a pertechnetate surrogate   Poster Board #2326 Room: Hall F2	Beatriz Ehlke Cambell Conour Tyler Vandiver Scott Oliver
12:00PM - 02:00PM	3748274 - Separation of aromatic hydrocarbons in porous materials   Poster Board #2344 Room: Hall F2	Karam Idrees Zhao Li Haomiao Xie Kent Kirlikovali Masoud Kazem-Rostami Xingjie Wang Xijun Wang Mandy Tai Timur Islamoglu James Stoddart Randall Snurr Omar Farha Karam Idrees
12:00PM - 02:00PM	3749991 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3749998 - Controlling pore size by electron-withdrawing effects in a 2D layered MOF   Poster Board #2352 Room: Hall F2	Baowen Li Juan Vizuet Gregory McCandless Kenneth Balkus
12:00PM - 02:00PM	3752981 - Metal-organic framework-based biosensor for detection of SARS-CoV-2   Poster Board #2366 Room: Hall F2	John Hadynski Monu Joy Distinguished Professor of Chemistry Mario Wriedt
12:00PM - 02:00PM	3753748 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	- Chemistry of Materials: Synthesis & Properties: Room: Hall F2	Claus Lugmair

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3717733 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3730011 - First synthesis of Sn(II)-perovskite nanocrystals, SnHfO <sub>3</sub> , by topotactic ion-exchange   Poster Board #2353 Room: Hall F2	Eric Gabilondo Ryan Newell Jacob Jones Paul Maggard
12:00PM - 02:00PM	3733785 - Low thermal conductivity of Sr <sub>2</sub> Fe <sub>2</sub> O <sub>6</sub> -.   Poster Board #2329 Room: Hall F2	Ram Hona
12:00PM - 02:00PM	3734222 - Structure-property relationships in new hybrid organic-inorganic copper and silver halides   Poster Board #2331 Room: Hall F2	Dilruba Afrose Popy Bayram Saparov
12:00PM - 02:00PM	3734806 - Using a proton-selective redox reservoir for flexible pairing of non-aqueous and aqueous electrochemical reactions   Poster Board #2355 Room: Hall F2	Katelyn Michael Zhiming Su Rui Wang Shannon Stahl Song Jin
12:00PM - 02:00PM	3735873 - Spontaneous seed formation during electrodeposition drives epitaxial growth of metastable bismuth selenide microcrystals   Poster Board #2361 Room: Hall F2	Jiang Luo Guodong Ren Brandon Campbell Dongyan Zhang Tengfei Cao Rohan Mishra Bryce Sadtler
12:00PM - 02:00PM	3737619 - Zinc borate hydrolysis   Poster Board #2371 Room: Hall F2	David Schubert
12:00PM - 02:00PM	3738438 - Nitrogen-doped carbons fabricated from glucose and their CO <sub>2</sub> adsorption capacity   Poster Board #2333 Room: Hall F2	Heesun Park Kyu Hyung Lee Hee Jung Yang Sunjoo Kim Han Sol Kim Sora Bang Byeongno Lee Nam Hur
12:00PM - 02:00PM	3738629 - Bi <sup>3+</sup> -activated broadband NIR phosphor   Poster Board #2349 Room: Hall F2	hexi zhang Yuanbing Mao
12:00PM - 02:00PM	3740134 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3740177 - Family of 1D ternary group 11 halides featuring up to unity photoluminescence quantum yield   Poster Board #2365 Room: Hall F2	Graduate Research Assistant Tielyr Creason Timothy McWhorter Isaiah Gilley Maohua Du Bayram Saparov

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3741797 - Comparison and characterization of eight in situ chemical methods to synthesize silver and copper treated cotton textiles   Poster Board #2367 Room: Hall F2	PhD Candidate David Patch Natalia O'Connor Iris Koch Jennifer Scott Kela Weber
12:00PM - 02:00PM	3742635 - Synthesis of optically enhanced polymer nanocomposites: Integration of inorganic-ligand-exchanged ZnS nanocrystals into amorphous polymer Matrix   Poster Board #2335 Room: Hall F2	Chi Sup Ahn Kookheon Char Huy Ju Mun
12:00PM - 02:00PM	3743360 - Transition metal induced blue and lanthanide generated green upconversion from SrMoO <sub>4</sub>   Poster Board #2347 Room: Hall F2	Thulitha Abeywickrama Yuanbing Mao
12:00PM - 02:00PM	3743395 - Computational study of cobalt oxynitride electrocatalyst for ammonia production   Poster Board #2369 Room: Hall F2	Mojgan Gharaee Thomas Cundari
12:00PM - 02:00PM	3743566 - Radio- and photo-luminescence of Pr <sup>3+</sup> doped LaAlO <sub>3</sub> for imaging application   Poster Board #2345 Room: Hall F2	Abdulelah Alolayan Nimai Pathak Yuanbing Mao
12:00PM - 02:00PM	3748444 - Charge transport in open framework chalcogenides   Poster Board #2428 Room: Hall F2	Jacob McKenzie PhD Candidate Khoa Nhut Le Assistant Professor Carl Brozek
12:00PM - 02:00PM	3749196 - New family of semiconducting ThCr <sub>2</sub> Si <sub>2</sub> -type layered materials with ultralow thermal conductivities   Poster Board #2337 Room: Hall F2	ARKA SARKAR Gayatri Viswanathan Philip Yox Jian Wang Kirill Kovnir
12:00PM - 02:00PM	3750771 - Effect of bromine as heavy atom in photophysical properties of trans-(N-heterocyclic carbene)Pt(II) acetylide complex   Poster Board #2373 Room: Hall F2	Md Amran Al Taz Khan Welch Distinguished Professor Kirk Schanze
12:00PM - 02:00PM	3751004 - Synthesis and multimethodological characterization of Dy <sup>3+</sup> and Tm <sup>3+</sup> doped synthetic hydroxyapatites   Poster Board #2426 Room: Hall F2	Asmaa EL KHOURI
12:00PM - 02:00PM	3754694 - Synthesis of cobalt telluride   Poster Board #2430 Room: Hall F2	Adriana Grams Brian Bellott
12:00PM - 02:00PM	3755205 - Air-stable and non-blue emissive low dimensional organic metal halide single crystals for application in optoelectronic devices   Poster Board #2432 Room: Hall F2	Dhritiman Banerjee Dilruba Afrose Popy Bayram Saparov
12:00PM - 02:00PM	- Chemistry of Materials: Nanomaterials: Room: Hall F2	Claus Lugmair

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3735512 - Analyzing illicit drugs using copper nanoparticles   Poster Board #2434 Room: Hall F2	Lillie Purcell Harley Davidson John Determan
12:00PM - 02:00PM	3735842 - Fluorescent cored silica nanoparticles for the detection of illicit drugs   Poster Board #2436 Room: Hall F2	Logan Barnard Mary Pearson Regina Scarpaci Ashley Webb Kaylee Hammer Harley Davidson John Determan
12:00PM - 02:00PM	3736521 - Understanding Au-SnO <sub>2</sub> interface on the atomic level using in-situ TEM heating   Poster Board #2454 Room: Hall F2	Ayanthi Thisera
12:00PM - 02:00PM	3737726 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3737780 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3737894 - Raman nano theranostic: An ultras-small-in-nano platform for targeted cancer treatment   Poster Board #2444 Room: Hall F2	Ryan Mellor Andreas Schätzlein Ijeoma Uchegbu
12:00PM - 02:00PM	3737967 - Siderophore promoted adhesion and dissolution of TiO <sub>2</sub> nanoparticles   Poster Board #2452 Room: Hall F2	Md Imdadul Haque Elizabeth Cerkez Daniel Strongin Ann Valentine
12:00PM - 02:00PM	3738400 - Superatom-in-superatom [RhH@Ag <sub>24</sub> (SPhMe <sub>2</sub> ) <sub>18</sub> ] <sub>2</sub> -nanocluster   Poster Board #2446 Room: Hall F2	Hanseok Yi Dongil Lee
12:00PM - 02:00PM	3739222 - Encapsulation of ZnO and Ho:ZnO nanoparticles in hollow wrinkled mesoporous silica   Poster Board #2448 Room: Hall F2	A. K. M. Nur Alam Siddiki Kenneth Balkus
12:00PM - 02:00PM	3740191 - Bi <sub>2</sub> O <sub>3</sub> nanoparticles exhibit potent broad-spectrum antimicrobial activity and the ability to overcome Ag-, ciprofloxacin- and meropenem-resistance in <i>P. aeruginosa</i>   Poster Board #2472 Room: Hall F2	Bishnu Pant
12:00PM - 02:00PM	3741623 - Role of kinetics in determining phases of nanocrystals   Poster Board #2460 Room: Hall F2	Jolene Keller Soren Sandeno Kaia Martin Mark Hendricks
12:00PM - 02:00PM	3742698 - IrO <sub>2</sub> -Ta <sub>2</sub> O <sub>5</sub> composite electrospun nanofibers for electrocatalytic oxygen evolution reaction   Poster Board #2468 Room: Hall F2	Jiwon Kim Kyung Min Kim Myung Hwa Kim



**Sunday, August 21, 2022**

12:00PM - 02:00PM	3742763 - ZnV <sub>2</sub> O <sub>6</sub> nanowires driven by a simple acid-base reaction with the thermal annealing process for highly efficient NO <sub>2</sub> gas sensing material   Poster Board #2462 Room: Hall F2	Kyungmin Kim Jiwon Kim Hyeonho Cho Myung Hwa Kim Hakki Yu
12:00PM - 02:00PM	3743492 - Size-dependent phase transitions in plasmonic post-transition metal nanoparticles   Poster Board #2464 Room: Hall F2	Noah Mason Melissa King Michael Ross
12:00PM - 02:00PM	3750691 - Bimetallic superatom bi-icosahedron Au <sub>25</sub> clusters: An optical and electrochemical study   Poster Board #2470 Room: Hall F2	Samantha Topka Nathaniel Stevens Nicole Hondrogiannis Mary Devadas
12:00PM - 02:00PM	3753215 - Polymer assisted synthesis of boron nitride for oil spill treatment   Poster Board #2427 Room: Hall F2	Jayda Yancey Bishnu Bastakoti
12:00PM - 02:00PM	3753670 - Enhanced surface functionalization on superparamagnetic iron oxide – gold nanoparticles toward drug carriers with higher loading capacity and bioavailability   Poster Board #2429 Room: Hall F2	Tian-Hao Yan Ya Wang Robert A. Welch Foundation Chair in Chemistry Hongcai Joe Zhou
12:00PM - 02:00PM	3754521 - Ultra-small perovskite nanoclusters and their role in perovskite quantum dot   Poster Board #2431 Room: Hall F2	Matt Atteberry Yitong Dong
12:00PM - 02:00PM	3754661 - Using multidomain peptides to probe regiospecific binding to graphene and h-BN   Poster Board #2437 Room: Hall F2	Nermina Brljak Ruitao Jin Robert Sangrigoli Tiffany Walsh Marc Knecht
12:00PM - 02:00PM	3755551 - Enhanced nanobubble formation: Gold nanoparticle conjugation to QB virus-like-particles   Poster Board #2435 Room: Hall F2	Perouza Parsamian
12:00PM - 02:00PM	3755553 - Bifunctional near-infrared light responsive gold nanorods for phototherapy of gram-negative Escherichia coli   Poster Board #2433 Room: Hall F2	Mohammad Azhar Mehfooz Joel Ybe Jeffrey Zaleski
12:00PM - 02:00PM	- Coordination Chemistry: Synthesis & Characterization: Room: Hall F2	Anna Larsen
12:00PM - 02:00PM	3717398 - Coordination driven self-assembly of Ir (III) coordination cages using $\pi$ -conjugated polydentate isocyanides   Poster Board #2445 Room: Hall F2	Morris Olumba Postdoctoral Researcher Hanah Na Alan Friedman Tom Teets

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3734958 - Si-H and C-H bond activation with a well-defined cobalt(I) hydride complexes   Poster Board #2447 Room: Hall F2	Jayawardhena Pathirannehelage Jayawardhena Jeanette Krause Hairong Guan
12:00PM - 02:00PM	3734997 - Tunable intramolecular charge transfer in methoxylated tetraarylporphyrins bearing hypervalent group 15 ions   Poster Board #2453 Room: Hall F2	Noah Holzer Jatan Sharma Vladimir Nesterov Paul Karr Francis D'Souza Prashanth Poddutoori
12:00PM - 02:00PM	3736196 - Exploiting cyclopentadienyl functionalization to tune properties of zirconium-based metal-organic polyhedra   Poster Board #2449 Room: Hall F2	Meghan Sullivan Gregory Sokolow Timothy Cook
12:00PM - 02:00PM	3737977 - Hybrid calixarene-NHC/MIC ligands as versatile platforms for multimetallic species   Poster Board #2451 Room: Hall F2	Daniel Mendoza-Espinosa Francisco Ruiz-Mendoza Alejandro Alvarez-Hernandez
12:00PM - 02:00PM	3738915 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3739693 - Further investigation of the synthesis and properties of iron-imide clusters   Poster Board #2467 Room: Hall F2	Justin Shmordok Jeremiah Duncan Matthew Traub Sonny Lee
12:00PM - 02:00PM	3741114 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3741316 - Synthesis and structure of mono-, di- and trinuclear fluorotriarylbi-muthonium cations   Poster Board #2463 Room: Hall F2	Jennifer Kuziola Marc Magre Nils Nöthling Josep Cornella
12:00PM - 02:00PM	3741963 - Effects of meso-aryl substitution on the tripyrrindione framework: Modification of coordination and redox properties   Poster Board #2461 Room: Hall F2	Iva Habensus Elisa Tomat
12:00PM - 02:00PM	3742031 - Dioxygen reactivity of copper(I)/manganese(II)-porphyrin assemblies   Poster Board #2552 Room: Hall F2	Runzi Li Firoz Shah Tuglak Khan Assistant Professor Shabnam Hematian
12:00PM - 02:00PM	3743462 - Unusual binding modes for ethylenediamine with ni(II) in aqueous solutions   Poster Board #2465 Room: Hall F2	Dafna Heule madison Hoogstra Plinio Rosales Lopez Ryan Storteboom Professor Douglas A Vander Griend

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3743667 - Will a supramolecular square assemble with copper(II) cations and amine ligands?   Poster Board #2469 Room: Hall F2	Kachel Bedow Eric Doorn Krista Zogg Dafna Heule madison Hoogstra Katherine Selvaggio Professor Douglas A Vander Griend
12:00PM - 02:00PM	3748512 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3751892 - Synthesis, characterization, and antitumor activity of palladium(II) complexes with 4,7-dichloro-1,10-phenanthroline   Poster Board #2471 Room: Hall F2	Aiden Garrett Betsy Leverett Hadi Arman Rafael Adrian
12:00PM - 02:00PM	3751963 - Mixed ligand copper(II) complexes of 1,10-phenanthroline: Synthesis, characterization, and cytotoxicity   Poster Board #2473 Room: Hall F2	Joseph Sulaica Betsy Leverett Hadi Arman Rafael Adrian
12:00PM - 02:00PM	3752495 - Distal and proximal isomers of the novel [Ru(dpop')(3,6-dppn)(Cl)](PF6) (dpop' = 2,3-a:3',2'-j dipyrido(phenazine); 3,6-dppn = 3,6-dipyrido(pyridazine)) complexes were prepared, separated, identified and characterized   Poster Board #2475 Room: Hall F2	Professor Ronald R. Ruminski , Ph.D. Sarah Aragon
12:00PM - 02:00PM	3752525 - Synthesis and structural characterization of novel dinuclear copper(II) complexes of 1,10-phenanthroline and 4,7-dichloro-1,10-phenanthroline   Poster Board #2526 Room: Hall F2	Amanda Le Betsy Leverett Hadi Arman Rafael Adrian
12:00PM - 02:00PM	3752730 - Preparation and characterization of cobalt(II), nickel(II), and copper(I) ONO pincer complexes   Poster Board #2550 Room: Hall F2	Professor of Chemistry & Biochemistry John Miecznikowski , Ph.D. Olivier Nicaise Deidra Gerlach Eric Reinheimer Natalia Bertolotti Michael Corbett Abigail Araujo Emma Mircovich Connor Padover
12:00PM - 02:00PM	3752789 - Synthesis, characterization, and antitumor activity of dinuclear copper(II) complexes with 2,2'-bipyrimidine as bridging ligand   Poster Board #2528 Room: Hall F2	Marcela Gutierrez Betsy Leverett Hadi Arman Rafael Adrian
12:00PM - 02:00PM	3753133 - Exploring bis(iminoxolene) iridium azides as precursors to terminal iridium nitrides   Poster Board #2530 Room: Hall F2	Natalie Warlen Seth Brown

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3753457 - Synthesis and characterization of tri-dentate quinoline-based OCN ligands and their complexes   Poster Board #2548 Room: Hall F2	nima noei
12:00PM - 02:00PM	3753483 - Effect of the ligand conformation on the properties of complexes of Mn(II) and Zn(II) with asymmetric diimines   Poster Board #2532 Room: Hall F2	Madison Barch Deepa Jha Ann Marie Johnston Isabella Pellegrom Maxwell Rhames Daniela Arias-Rotondo
12:00PM - 02:00PM	3754111 - Palladium(II) complexes of 4,4'-dimethoxy-2,2'-bipyridine: Synthesis, characterization and cytotoxicity studies   Poster Board #2534 Room: Hall F2	Michael Sanderlin Betsy Leverett Hadi Arman Rafael Adrian
12:00PM - 02:00PM	3754149 - Structural features and antitumor activity of Pd(II) complexes containing 4,4'-dimethyl-2,2'-dipyridyl   Poster Board #2536 Room: Hall F2	Mariana Araujo Rincon Betsy Leverett Hadi Arman Rafael Adrian
12:00PM - 02:00PM	3754821 - How overall charge affects dinitrogen binding in iron C,N,C-pincer compounds   Poster Board #2544 Room: Hall F2	Bailey Hanson Adriana Lugosan Wei-Tsung Lee
12:00PM - 02:00PM	3754917 - Tuning the reactivity of nickel metallodithiolate complexes through secondary sphere pendant bases   Poster Board #2554 Room: Hall F2	Kyle Burns Trung Le Marcetta Darensbourg
12:00PM - 02:00PM	3755016 - Bimetallic complexes in the interconversion of N <sub>2</sub> and NH <sub>3</sub>   Poster Board #2546 Room: Hall F2	Josalynne Beringer Uran Iwata Timothy Warren
12:00PM - 02:00PM	- Coordination Chemistry: Characterization & Applications: Room: Hall F2	Anna Larsen
12:00PM - 02:00PM	3735774 - Fluorescent recognition and visual detection of fructosyl-amino acids based on a Zn(II)-terpyridine complex with alizarin red S in water   Poster Board #2560 Room: Hall F2	María Salomón Alejandro Dorazco
12:00PM - 02:00PM	3740692 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3741762 - Axially ambivalent cobalt: Structures of 4-, 5-, and 6-coordinate complexes of a Co(II) phosphine core   Poster Board #2564 Room: Hall F2	Jack Thomas-Colwell Griffin Eden Daniel Kurtz Arvin Sookezian Michael Hill Bryan Hunter

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3741932 - Metal-organic phase-change materials for thermal energy storage   Poster Board #2531 Room: Hall F2	ryan mcgillcuddy Surendra Thapa Malia Wenny Miguel Carlos Gonzalez Jarad Mason
12:00PM - 02:00PM	3742008 - Catalase activity of Fe(III) pyridinophane complexes   Poster Board #2533 Room: Hall F2	Magy Mekhail David Freire Kayla Green
12:00PM - 02:00PM	3743430 - Iridium and rhodium pincer complexes anchored by group 13 elements   Poster Board #2566 Room: Hall F2	Vinh Nguyen Oleg Ozerov
12:00PM - 02:00PM	3746478 - Combining cation and anion binding in imine based dynamic combinatorial libraries   Poster Board #2568 Room: Hall F2	Mehmed Ozkan Jeffrey McNeill Thomas Mallouk
12:00PM - 02:00PM	3747340 - Insight into the reactivity and mechanism of metal-ligand cooperative O-H bond activation by aluminum and gallium tripodal tris(nitroxide) complexes   Poster Board #2529 Room: Hall F2	Joseph Scott Christopher Graves
12:00PM - 02:00PM	3754223 - Development of solution processible silicon pincer complexes for electronic device applications   Poster Board #2572 Room: Hall F2	Adesola Adeyemi Thomas Schmedake
12:00PM - 02:00PM	3754357 - Development and characterization of a new generation of hydrosilation catalysts for silicon polymers   Poster Board #2570 Room: Hall F2	Patrick Landry Peter Bonitatibus K Lakshmi
12:00PM - 02:00PM	3755182 - Examining the effect of secondary sphere hydrogen bonds on the reactivity of a high valent O <sub>2</sub> derived iron compound   Poster Board #2574 Room: Hall F2	Andrew LaDuca Nathaniel Szymczak
12:00PM - 02:00PM	3755275 - Appended bifurcated second sphere groups for nitrogenous substrate capture and activation   Poster Board #2527 Room: Hall F2	Daniel Beagan John Kiernicki Emily Norwine Matthias Zeller Nathaniel Szymczak
12:00PM - 02:00PM	- Electrochemistry: Room: Hall F2	Amy Marschilok
12:00PM - 02:00PM	3729869 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3737689 - PEGylated tin-porphyrin complex for electrocatalytic proton reduction: Mechanistic insights into main-group element catalysis   Poster Board #2535 Room: Hall F2	Ashwin Chaturvedi Gavin McCarver Soumya Sinha Undergraduate Researcher Elijah G Hix Konstantinos Vogiatzis Jianbing Jiang

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3742707 - Homogeneous electrocatalytic CO <sub>2</sub> reduction using a porphyrin complex with flexible triazole units in the second coordination sphere   Poster Board #2537 Room: Hall F2	Nilakshi Devi Ashwin Chaturvedi Caroline Williams Jianbing Jiang
12:00PM - 02:00PM	3743105 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3744830 - Chemical bonding in redox active oxyfluorides   Poster Board #2634 Room: Hall F2	Emma Schick Graduate Student INDRANI ROY Jordi Cabana
12:00PM - 02:00PM	3747070 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3757833 - Systematic study of the stability of immobilized inorganic redox-probes on carbon electrodes   Poster Board #2547 Room: Hall F2	Stefan Kilyanek Joseph Abshier Lily Hallett Mackenzie Lea Bilal Momand Sarah Spence
12:00PM - 02:00PM	- Environmental & Energy-Related Inorganic Chemistry: Room: Hall F2	Kenneth Takeuchi
12:00PM - 02:00PM	3743070 - Computational and experimental studies of CO <sub>2</sub> binding to oxoanions   Poster Board #2549 Room: Hall F2	Kailee Buttice Sydney Towell Adam Johnson Kyle Grice
12:00PM - 02:00PM	3743540 - Polyoxometalate applications for fuel cell hydrogen catalysis   Poster Board #2551 Room: Hall F2	Lesley Tolentino Donna McGregor Rachel Greenberg
12:00PM - 02:00PM	3744218 - Reduction of recalcitrant nitrate and nitrite via mononitrosyl and dinitrosyl iron complexes   Poster Board #2555 Room: Hall F2	John Gilbertson Tim Kowalczyk Hanalei Lewine April Trausch Kaitlyn Lindblom
12:00PM - 02:00PM	3745969 - Investigation of copper complexes for dye sensitized solar cells   Poster Board #2563 Room: Hall F2	Samhita Kaushik Thomas Hamann
12:00PM - 02:00PM	3746798 - Silica nanoparticles assisted Ba <sub>2</sub> SiO <sub>4</sub> : Eu <sup>2+</sup> - A bluish green-emitting phosphor for white LED Application   Poster Board #2561 Room: Hall F2	Sakthivel Gandhi
12:00PM - 02:00PM	3751744 - Diastereomers in polynuclear heterometallic diketonate complexes   Poster Board #2565 Room: Hall F2	Zheng Wei Evgeny Dikarev Yuxuan Zhang

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3752734 - Development of first-row transition metal catalysts for decarboxylation of aliphatic organic acids   Poster Board #2553 Room: Hall F2	Daniela Vargas Trujillo LeGrande Slaughter
12:00PM - 02:00PM	3755045 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	- Inorganic Catalysts: Room: Hall F2	Professor of Chemisrtry Stephen A Koch
12:00PM - 02:00PM	3733765 - Density functional study exploring group 13 complexes for methane activation and conversion   Poster Board #2567 Room: Hall F2	Drishti Gupta Thomas Cundari
12:00PM - 02:00PM	3737908 - Polyoxometalate-stabilized platinum nanoparticles for photochemical dehydrogenation of alkanes at room temperature   Poster Board #2569 Room: Hall F2	Ting Cheng
12:00PM - 02:00PM	3740139 - Synthesis of Pt/SrTiO <sub>3</sub> upcycling catalysts with controlled support shape, particle size, and catalyst dispersion   Poster Board #2571 Room: Hall F2	Ian Peczak Robert Kennedy Ryan Hackler Massimiliano Delferro Kenneth Poeppelmeier
12:00PM - 02:00PM	3740442 - Degradation of rhodamine b by a composite heterogeneous catalyst FeC <sub>2</sub> O <sub>4</sub> /MnC <sub>2</sub> O <sub>4</sub>   Poster Board #2573 Room: Hall F2	Liumi Deng shaohua chen
12:00PM - 02:00PM	3743699 - Can nickel phosphide clathrates be viable catalysts?   Poster Board #2575 Room: Hall F2	Marquix Adamson Lin Wei Philip Yox Javier Vela
12:00PM - 02:00PM	3750773 - Investigating the scope of tandem metal-ligand catalysis with TBDPhos complexes   Poster Board #2644 Room: Hall F2	Mai Yer Yang Manisha Skaria Scott Daly
12:00PM - 02:00PM	3751957 - Comparing copper catalysts in the synthesis of 1,2,3-triazoles via click chemistry   Poster Board #2646 Room: Hall F2	Emma Green Jocelyn Lanorio
12:00PM - 02:00PM	3752520 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3755107 - Catalytic ammonia oxidation using nickel complexes   Poster Board #2648 Room: Hall F2	David Stephens Robert Szilagyi Michael Mock
12:00PM - 02:00PM	3755523 - Synthesis of novel copper(II) NHC complexes of pyridine-functionalized benzimidazolylide ligands and their catalysis in cross-coupling reactions   Poster Board #2650 Room: Hall F2	Bhupendra Adhikari Mitu Sharma Selvam Raju Sean Stokes Joseph Emerson

**Sunday, August 21, 2022**

12:00PM - 02:00PM	- Lanthanide & Actinide Chemistry: Room: Hall F2	Assistant Professor of Chemistry Jerome R. Robinson
12:00PM - 02:00PM	3731339 - Nonaqueous synthesis of uranyl peroxide cage clusters   Poster Board #2652 Room: Hall F2	Cale Gaster Arianna Latuda Daniel Felton Peter Burns
12:00PM - 02:00PM	3731720 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3737771 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3742936 - Synthesis of amino-based bifunctional probes for biological and biomedical applications   Poster Board #2664 Room: Hall F2	Jesba Bas Lawrence Miller Duncan Wardrop
12:00PM - 02:00PM	3743440 - Synthesis of nanoscale UO <sub>2</sub> through thermally induced reduction of uranyl-based materials.   Poster Board #2654 Room: Hall F2	Justin Daniels Peter Burns
12:00PM - 02:00PM	3744110 - Investigation of HOPO grafted ionic liquids for lanthanides separation   Poster Board #2668 Room: Hall F2	Huimin Luo
12:00PM - 02:00PM	3746499 - Interaction of oxygen with uranium(IV)-containing molten chlorides: A kinetics study   Poster Board #2660 Room: Hall F2	Vladimir Volkovich Dmitry Maltsev Alexander Ryzhov Alexander Ivanov Andrey Shchetinskiy
12:00PM - 02:00PM	3753690 - Co-precipitation of strontium, barium, and gadolinium phosphates from alkali chloride based melts   Poster Board #2662 Room: Hall F2	Alexander Ivanov Dmitry Maltsev Vladimir Volkovich Elena Pavlova Andrei Malyshev
12:00PM - 02:00PM	3754995 - CO <sub>2</sub> -facilitated extraction and separation of Ce from unconventional resources   Poster Board #2666 Room: Hall F2	Hunter Vibbert Whai Shin Amanda Ooi Ah-Hyung Park
12:00PM - 02:00PM	- Inorganic Spectroscopy: Room: Hall F2	Codrina Popescu
12:00PM - 02:00PM	3738189 - Synthesis and characterization of homoleptic cyclometalated iron complexes   Poster Board #2670 Room: Hall F2	Aleksa Radovic Nikki Wolford Stephanie Carpenter Steven Diaz David McCamant Michael Neidig



**Sunday, August 21, 2022**

12:00PM - 02:00PM	3738275 - Spectroscopic quantification of O2 isotopologues by EPR: A method of investigating water oxidation catalyst mechanisms   Poster Board #2672 Room: Hall F2	Trisha Nguyen Rick Saylor Bryan Hunter R Britt
12:00PM - 02:00PM	- Nanoscience: Room: Hall F2	Brian Trewyn
12:00PM - 02:00PM	3731289 - Template-free synthesis of two-dimensional metal oxide nanosheets   Poster Board #2674 Room: Hall F2	Yuchen Zhang Yuanbing Mao
12:00PM - 02:00PM	- Solid-State Inorganic Chemistry: Room: Hall F2	Claus Lugmair Assistant Professor Viktor V Poltavets , Ph.D.
12:00PM - 02:00PM	3731393 - Flux-based synthesis of poly(triazine imide) and modifications with molecular dopants for band gap tunability and photocatalytic CO2 reduction   Poster Board #2671 Room: Hall F2	Scott McGuigan Magnus Pauly Eric Gabilondo Fengyi Zhao Bo Shang Hailiang Wang Tim Lian Paul Maggard
12:00PM - 02:00PM	3739530 - Many body localisation in CeMnAsO1-xFx?   Poster Board #2661 Room: Hall F2	Abbie Mclaughlin Gaynor Lawrence Struan Simpson Eve Wildman
12:00PM - 02:00PM	3740568 - Designing low-dimensional magnetic systems with Cu(II)-V(IV) coupling   Poster Board #2663 Room: Hall F2	Yiran Wang Masayuki Fukuda Sergey Nikolaev Romain Gautier Atsushi Miyake Masashi Tokunaga Masaki Azuma Kenneth Poeppelmeier
12:00PM - 02:00PM	3742226 - Characterisation of memristive property in mesoporous titania with various device alignment   Poster Board #2665 Room: Hall F2	DHANASHRI DESAI gillhwan kim Cholong Kim Seongcheol Shin hyunho Lee
12:00PM - 02:00PM	3742305 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3742960 - Water vapor controlled hydro-sauna synthesis of phase-pure LnScO3   Poster Board #2669 Room: Hall F2	Emily Greenstein Fenghua Ding Laurence Marks Kenneth Poeppelmeier
12:00PM - 02:00PM	3745115 - Withdrawn Room: Hall F2	

**Sunday, August 21, 2022**

12:00PM - 02:00PM	- Main Group Chemistry: Room: Hall F2	Todd Hudnall
12:00PM - 02:00PM	3738715 - Phosphazene superbases interactions with phosphonitrilic chloride trimer   Poster Board #2675 Room: Hall F2	Nicholas Johnson Yuan Xue Claire Tessier
12:00PM - 02:00PM	3739908 - Effect of spiroconjugation on the stability of spirocyclic group 13, 14, and 15-centered redox mediators   Poster Board #2673 Room: Hall F2	Mitchell Anstey Alexa Greenwood Jonathan Nicoleau Keith Dean Kathryn Coladonato Nathan Rudman Nicole Torquato Neil Tomson Michael Gau Patrick Carroll David Blauch
12:00PM - 02:00PM	- Organometallic Chemistry: Catalysis - Early Transition Metals: Room: Hall F2	Nora Radu
12:00PM - 02:00PM	3727127 - Electrocatalytic metal hydride generation using coupled proton-electron transfer mediators   Poster Board #2677 Room: Hall F2	Fabio Masero Subal Dey Victor Mougel
12:00PM - 02:00PM	3755418 - Catalytic reactions and electrochemical studies of a Mo-dioxo system supported by bulky pincer ligands   Poster Board #2760 Room: Hall F2	Randy Tran Miranda Sanders Stefan Kilyanek
12:00PM - 02:00PM	3757407 - Catalytic dehydration of secondary alcohols by tungsten dioxo complexes   Poster Board #2762 Room: Hall F2	Kayla DeNike Jessica Stephens Stefan Kilyanek
12:00PM - 02:00PM	- Organometallic Chemistry: Catalysis-Late Transition Metals: Room: Hall F2	Nora Radu
12:00PM - 02:00PM	3739583 - Epoxide hydrogenation catalyzed by PNN and PNP-pincer complexes of ruthenium   Poster Board #2764 Room: Hall F2	Fallyn Kirilin Olivia Borden Marianna Head Anthony Chianese
12:00PM - 02:00PM	3739591 - Mechanism of ruthenium-catalyzed epoxide hydrogenation   Poster Board #2766 Room: Hall F2	Marianna Head Benjamin Joseph Jason Keith Anthony Chianese
12:00PM - 02:00PM	3752838 - Withdrawn Room: Hall F2	
12:00PM - 02:00PM	3753024 - Withdrawn Room: Hall F2	

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3753658 - Low valent cobalt(I) CNC pincer complexes as catalysts for light driven carbon dioxide reduction   Poster Board #2772 Room: Hall F2	Wenzhi Yao Chance Boudreaux Dinesh Nugegoda Nghia Le Nathan Frey Qing Li Fengrui Qu Matthias Zeller Charles Webster Jared Delcamp Elizabeth Papish
12:00PM - 02:00PM	3754535 - Exploring E-H bond activation   Poster Board #2774 Room: Hall F2	Nicholas Maldonado Alison Fout
12:00PM - 02:00PM	- Organometallic Chemistry: Applications to Materials & Polymer Science: Room: Hall F2	Nora Radu
12:00PM - 02:00PM	3721481 - Choline chloride as an active cocatalyst in the perfectly alternating copolymerization of epoxides and cyclic anhydrides with rare earth metal catalyst   Poster Board #2776 Room: Hall F2	Collette Gordon Zachary Wood Mikiyas Assefa Yvonne Manjarrez Megan Fieser
12:00PM - 02:00PM	3754199 - Theoretical insight into the effect of fluorine-functionalized metal-organic framework supported palladium single-site catalyst in the ethylene dimerization reaction   Poster Board #2761 Room: Hall F2	Daniela Ortega
12:00PM - 02:00PM	- Organometallic Chemistry: Applications to Organic Transformations: Room: Hall F2	Nora Radu
12:00PM - 02:00PM	3740807 - Measuring the C(sp <sup>3</sup> )-H bond strength of an agostic interaction   Poster Board #2763 Room: Hall F2	Lirong Lin Demyan Prokopchuk
12:00PM - 02:00PM	- Organometallic Chemistry: New Ligand Platforms: Room: Hall F2	Nora Radu
12:00PM - 02:00PM	3734804 - Alkali metal Induced multi-electron reduction of COT-based carbon frameworks   Poster Board #2765 Room: Hall F2	Yikun Zhu Zheng Zhou Zheng Wei Professor Marina Petrukhina
12:00PM - 02:00PM	3734841 - Structural and spectroscopic insights into a doubly-reduced oligomeric poly(para-Phenylene) fragment   Poster Board #2769 Room: Hall F2	Matthew J Pennachio Zheng Wei Zheng Zhou Professor Marina Petrukhina

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3734843 - Oxidation and complexation of nanographene fragments: The pursuit of pancake bonded compounds   Poster Board #2767 Room: Hall F2	Megan McCormack Zheng Zhou Zheng Wei Professor Marina Petrukhina
12:00PM - 02:00PM	3741579 - Characterization of substituted N2P2 first row transition metal complexes   Poster Board #2771 Room: Hall F2	Claire Egesdal Tracey Nelson Maddie Logelin Michelle Soltis Daron Janzen Assistant Professor of Chemistry Elodie E Marlier
12:00PM - 02:00PM	3743063 - Optimization of a mixed-donor ligand for metallation and characterization   Poster Board #2773 Room: Hall F2	Riley Kazukiewicz Abigail Halverson Daron Janzen Assistant Professor of Chemistry Elodie E Marlier
12:00PM - 02:00PM	3743075 - Synthesis and characterization of three first-row transition metal complexes supported by a methoxy-substituted N2P2 ligand   Poster Board #2775 Room: Hall F2	Logan Flom Burke Meader Emily Nolan Daron Janzen Assistant Professor of Chemistry Elodie E Marlier
12:00PM - 02:00PM	3746625 - Synthesis, complexation and redox profile of the first biazulenic $\pi$ -linker featuring mercapto termini   Poster Board #2777 Room: Hall F2	Shaun Kelsey Jason Applegate Patrick Connelly Professor Mikhail Barybin
12:00PM - 02:00PM	- Organometallic Chemistry: Synthesis & Characterization - Early Transition Metals: Room: Hall F2	Nora Radu
12:00PM - 02:00PM	3737576 - Early transition metal multiple bonds and their reactivity with unsaturated substrates   Poster Board #2860 Room: Hall F2	John Russell Graduate Student Mehrafshan Jafari Daniel Mindiola
12:00PM - 02:00PM	3737914 - Chemistry of iminopyridine and bis(imino)pyridine ligands based low-valent bimetallic/ monometallic molybdenum complexes   Poster Board #2862 Room: Hall F2	Asanka Dissanayake Stanislav Groysman
12:00PM - 02:00PM	3741469 - Isolation and characterization of a neutral and terminal niobium nitride   Poster Board #2864 Room: Hall F2	Shuruthi Senthil Seongyeon Kwon Michael Gau Patrick Carroll Mu-Hyun Baik Daniel Mindiola
12:00PM - 02:00PM	- Organometallic Chemistry: Synthesis & Characterization-Late Transition Metals: Room: Hall F2	Nora Radu

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3740020 - Synthesis of substituted benzonitrile compounds of ruthenium and reactions with oxygen atom transfer reagents   Poster Board #2866 Room: Hall F2	Grace Hammers Cole Hammond Yutong Zou Tia Hockenhull Christopher Turlington
12:00PM - 02:00PM	3742539 - Evidence of aggregate induced emission in platinum(II) bis-chelate compounds   Poster Board #2868 Room: Hall F2	Craig Anderson matthew greenberg Christopher LaFratta Belle Coffey lily clough daphne bartkus ian mcclellan Joseph Tanski
12:00PM - 02:00PM	3753354 - Characterization and reactivity of low valent nickel and copper organoazide species with a borane Lewis acid in the secondary sphere   Poster Board #2876 Room: Hall F2	Sang Gyu Seo Trey Henderson Jiaxiang Chu Nathaniel Szymczak
12:00PM - 02:00PM	3753548 - Synthesis of bidentate N-heterocyclic carbene nickel and cobalt complexes with xylyl linkers   Poster Board #2870 Room: Hall F2	Ethan Chavarin Mei Matsumoto Jacob Brannon S. Chantal Stieber
12:00PM - 02:00PM	3754075 - Copper catalyzed sp <sup>3</sup> C-H functionalization for C-C bond formation   Poster Board #2874 Room: Hall F2	Ting-An Chen Otome Okoromoba Timothy Warren
12:00PM - 02:00PM	3754173 - Synthesis and redox chemistry of aminoindenylmanganese complexes   Poster Board #2872 Room: Hall F2	David Tresp Roger Lalancette Demyan Prokopchuk
12:00PM - 02:00PM	- International Crossroads of Organometallic and Group V Chemistry: Room: Hall F2	Derek Gates John Protasiewicz Rainer Streubel
12:00PM - 02:00PM	3728231 - Transition metal-like reactivity of ligand-to-phosphinidene complex adducts   Poster Board #2861 Room: Hall F2	David Biskup Arturo Espinosa Rainer Streubel
12:00PM - 02:00PM	3738481 - Why bent, unstable P-linked 1,3-thiazole-2-thione-based bis(NHCs)?   Poster Board #2863 Room: Hall F2	Tim Kalisch Rainer Streubel
12:00PM - 02:00PM	3742093 - Diblock copolymers from the sequential living anionic copolymerization a phosphalkene with styrene   Poster Board #2865 Room: Hall F2	Tian Zhang Derek Gates
12:00PM - 02:00PM	3743522 - Phosphanoxy iron complexes – but who is non-innocent?   Poster Board #2867 Room: Hall F2	Philipp Brehm Rainer Streubel

**Sunday, August 21, 2022**

12:00PM - 02:00PM	- Bioinorganic Chemistry: Proteins & Enzymes & Model Systems: Room: Virtual-only	Professor of Chemistrtry Stephen A Koch
12:00PM - 02:00PM	3754191 - Withdrawn Room: Virtual-only	
12:00PM - 02:00PM	3754213 - Modeling neutral, electron-deficient iron carbonyl carbide clusters through density functional theory Room: Virtual-only	Karen Ngo Caitlyn Cobb Robert Dick Michael Rose
12:00PM - 02:00PM	3754939 - Second coordination sphere and long-range interactions as tools for modulating HAT in a histone demethylase Room: Virtual-only	Shobhit Chaturvedi Jon Wildey Cait Warner Christopher J. Schofield Tatyana Karabancheva-Christova Christo Christov
12:00PM - 02:00PM	3755555 - Design and synthesis of tau-derived peptides to modulate microtubule function Room: Virtual-only	Hao Ma
12:00PM - 02:00PM	- Bioinorganic Chemistry: DNA, RNA & Inorganic Drugs: Room: Virtual-only	Professor of Chemistrtry Stephen A Koch
12:00PM - 02:00PM	3738804 - Photoactive metallodrugs for applications in cancer therapy Room: Virtual-only	Alisher Talgatov Research Scientis Elamparuthi Ramasamy , Ph.D. Abbas Vali Graduate Student Houston Cole Wesley McDonald Ge Shi Gurleen Kaur Colin Cameron Professor Sherri McFarland
12:00PM - 02:00PM	3752253 - DNA/protein binding, molecular docking and ADME studies of fluorene-2-carboxaldehyde thiosemicarbazones and its copper complexes Room: Virtual-only	VISHNUNARAYANAN NAMBOOTHIRI V P Anandaram Sreekanth
12:00PM - 02:00PM	3752568 - Novel DNA and serum albumin binding iridium(III) polypyridyl complex: [(2,2'-bipyridyl)2Ir(2,2':4,4'':4',4'''-quaterpyridine)]3+ Room: Virtual-only	Stephen Aderinto Jim Thomas
12:00PM - 02:00PM	- Chemistry of Materials: Metal Organic Frameworks: Room: Virtual-only	Rebecca Siegelman
12:00PM - 02:00PM	3727510 - Regiochemistry of the singlet oxygen ene reaction in metal-organic frameworks Room: Virtual-only	Jin Hyeok Yoon Matthias Selke Associate Professor Yangyang Liu

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3727698 - Carbon dioxide capture chemistry of amino acid functionalized metal-organic frameworks in humid flue gas Room: Virtual-only	Hao Lyu Oscar Chen Nikita Hanikel Mohammad Hossain Robinson Flaig Xiaokun Pei Ameer Amin Mark Doherty Rebekah Impastato T. Glover David Moore Omar Yaghi
12:00PM - 02:00PM	3733175 - Controlling dynamics in extended molecular frameworks Room: Virtual-only	Liang Feng James Stoddart
12:00PM - 02:00PM	3735050 - Anticancer metal-organic frameworks composed of copper, cobalt, and zinc: Their biocompatibility and mechanism Room: Virtual-only	Do Nam Lee Ihn Han Seung Ah Choi
12:00PM - 02:00PM	3738207 - Kinetic analysis of nonisothermal decomposition of bimetallic MOF before and after ? -irradiation Room: Virtual-only	Khadraa Alqahtani Asma A. Alotman
12:00PM - 02:00PM	3743547 - In-situ time-dependent ATR-FTIR characterization of porphyrin aluminum metal-organic framework and studies of its hygroscopic behavior Room: Virtual-only	Georgia Annicette Banga Bothy Assistant Professor Alexander Samokhvalov
12:00PM - 02:00PM	3747808 - Electrochemical fabrication of long-range ordered macro-microporous metal-organic framework films Room: Virtual-only	Sijia Qin
12:00PM - 02:00PM	- Coordination Chemistry: Synthesis & Characterization: Room: Virtual-only	Anna Larsen
12:00PM - 02:00PM	3743393 - Naphthyl-based dipodal ureas for anion binding Room: Virtual-only	Tochukwu Egboluche Corey Johnson Sanchita Kundu Alamgir Hossain
12:00PM - 02:00PM	3753960 - BODIPY-metal complexes conjugates and related thiosemicarbazone-based synthetic scaffolds for multimodal imaging in living prostate cancer cells Room: Virtual-only	Sofia I. Pascu , FRSC Megan Green Kexin Song Alexander Simmons Haobo Ge Ruediger M. Exner
12:00PM - 02:00PM	3754428 - Photofabricating the mechanical properties of vanadium(V)-polysaccharide coordination hydrogels for controlled delivery Room: Virtual-only	Kalani Edirisinghe Jason Keleher Associate Professor Alexis D. Ostrowski

**Sunday, August 21, 2022**

12:00PM - 02:00PM	3754657 - Aza-dipyrromethene group 13 chelates: Structural, photophysical, and computational properties Room: Virtual-only	Jordan Kelly Aiden Lane Ny Luong Martin Neal Daniel Chase Thomas Montgomery
12:00PM - 02:00PM	- Coordination Chemistry: Characterization & Applications: Room: Virtual-only	Anna Larsen
12:00PM - 02:00PM	3720153 - Synthesis, characterization, computational studies and In vitro antiproliferative assays of dithiocarbazate based compounds Room: Virtual-only	Kakoli Malakar
12:00PM - 02:00PM	3730848 - Withdrawn Room: Virtual-only	
12:00PM - 02:00PM	3735801 - Localized surface plasmon resonance and sensing properties of SnO <sub>2</sub> infrared transparent conducting films Room: Virtual-only	Liangge Xu
12:00PM - 02:00PM	3736670 - New approach to bioconjugation by combining strain-promoted azide-alkyne cycloaddition (SPAAC) with inorganic click (iClick) Room: Virtual-only	Yu-Hsuan Shen Alec Esper Scientist Ion Ghiviriga Khalil Abboud Welch Distinguished Professor Kirk Schanze Christian Ehm Adam Veige
12:00PM - 02:00PM	3744277 - Metal-to-semiconductor transition and photo-thermal electrical properties in coordination polymers of Ni-tetrathiafulvalene tetrathiolate(TTFt) Room: Virtual-only	Jiaze Xie
12:00PM - 02:00PM	3745878 - Withdrawn Room: Virtual-only	
12:00PM - 02:00PM	- Solid-State Inorganic Chemistry: Room: Virtual-only	Claus Lugmair Assistant Professor Viktor V Poltavets , Ph.D.
12:00PM - 02:00PM	3734398 - Withdrawn Room: Virtual-only	



**Sunday, August 21, 2022**

12:00PM - 02:00PM	3745385 - Exploring hydrothermal synthesis of ultralow thermal conductive heteroanionic materials Room: Virtual-only	Chi Zhang Jiangang He Rebecca McClain Hongyao Xie Songting Cai Lauren Walters Jiahong Shen James Rondinelli Mercouri Kanatzidis Chris Wolverton Vinayak Dravid Kenneth Poeppelmeier
12:00PM - 02:00PM	- Organometallic Chemistry: Catalysis-Late Transition Metals: Room: Virtual-only	Nora Radu
12:00PM - 02:00PM	3738720 - Reactivity of the five-coordinate iron complexes toward oxygen and carbon monoxide Room: Virtual-only	Vahdat Jahed Michael Jensen
12:00PM - 02:00PM	- Organometallic Chemistry: Applications to Materials & Polymer Science: Room: Virtual-only	Nora Radu
12:00PM - 02:00PM	3733410 - Synthesis and electrochemical characteristics of 1,1-dialkyl-2,5-bis(trimethylsilylethynyl)-3,4-diphenyl-siloles Room: Virtual-only	Hyeong Rok Si Se Yeon Park Ji Hoon Lee Young Tae Park
12:00PM - 02:00PM	3740241 - Poly (silyl ether)-based polymeric nanoparticles as potential nanocarriers for drug delivery applications Room: Virtual-only	Vladimir Zotov Guodong Du Zachary Bailey
12:00PM - 02:00PM	- Organometallic Chemistry: Synthesis & Characterization-Late Transition Metals: Room: Virtual-only	Nora Radu
12:00PM - 02:00PM	3734356 - Withdrawn Room: Virtual-only	
12:00PM - 02:00PM	3736847 - Influence of sterics and electronics on metal-ligand proton tautomerism Room: Virtual-only	Anant Jain Karen Goldberg
02:00PM - 05:40PM	- Organometallic Chemistry: Synthesis & Characterization-Late Transition Metals: Room: W179a	Assistant Professor of Chemistry Elodie E Marlier Nora Radu
02:00PM - 02:20PM	3738996 - Coinage metal complexes of ethylene, carbonyl, and isocyanide supported by fluorinated poly(pyridyl)borates Room: W179a	Mukundam Vanga Anurag Noonikara Poyil Alvaro Muñoz-Castro Professor Rasika Dias

**Sunday, August 21, 2022**

02:00PM - 05:20PM	- Organometallic Chemistry: Synthesis & Characterization - Early Transition Metals: Room: W181a	Selvan Demir Nora Radu
02:00PM - 02:20PM	3755232 - Versatility of organometallic lanthanide compounds: From single-molecule magnets to reactivity studies Room: W181a	Florian Benner Peng Zhang Selvan Demir
02:00PM - 05:45PM	- International Crossroads of Organometallic and Group V Chemistry: Room: W178b	Derek Gates John Protasiewicz Rainer Streubel
02:00PM - 02:30PM	3737517 - From carbon-copies to photo-copies: Luminescent 1,3-benzoxaphospholes and 1,3-benzazaphospholes Room: W178b	John Protasiewicz
02:00PM - 06:00PM	- Inorganic Nanoscience Award: Symposium in Honor of Amy Prieto: Room: W181b	Raffaella Buonsanti Elena Shevchenko
02:00PM - 02:05PM	- Introductory Remarks Room: W181b	
02:00PM - 04:55PM	- Main Group Chemistry: Room: W178a	Todd Hudnall Professor Michael Pluth
02:00PM - 02:20PM	3743453 - Low temperature chemical vapor deposition of SiNx in deep features Room: W178a	Vincent Flores Gregory Girolami
02:00PM - 05:40PM	- Environmental & Energy-Related Inorganic Chemistry: Room: W180	Kyle Grice Nathaniel Szymczak Kenneth Takeuchi
02:00PM - 02:20PM	3747460 - Ligand redesign to improve ethanol upgrading using ruthenium catalysts Room: W180	Nathaniel Szymczak Alex Davies Zhong-Yuan Li Alyssa Cabelof Benjamin Farris Corey Stephenson
02:00PM - 05:45PM	- Inorganic Young Investigator Awards: Room: W186c	Andrew Borovik
02:00PM - 02:25PM	3736769 - Shifting towards wide-gamut human-centric displays using K3AlP3O9N:Eu2+ Room: W186c	Shruti Hariyani Mahdi Amachraa Xinxin Xing Shyue Ping Ong Jiming Bao Associate Professor Jakoah Brgoch
02:00PM - 06:00PM	- Chemistry of Materials - Materials for Energy & Catalytic Applications: Room: W179b	Nicholas Jaegers Claus Lugmair Bo Shen

**Sunday, August 21, 2022**

02:00PM - 02:20PM	3735218 - Withdrawn Room: W179b	
02:05PM - 02:25PM	3743019 - Understanding the surface effects of ternary oxide photoelectrodes on photoelectrochemical water splitting Room: W181b	Kyoung-Shin Choi
02:20PM - 02:40PM	3741536 - Hexadentate bis(amidines) as selective molecular locks for embedding coinage metal fragments through hydrogen bonding and dispersion forces Room: W179a	Postdoctoral Researcher Janet Arras Omar Ugarte Trejo Connor O'Dea Nattamai Bhuvanesh Colin McMillen Associate Professor Michael Stollenz
02:20PM - 02:40PM	3726317 - Vanadium alkylidynes and their subsequent reactivity with isonitriles Room: W181a	John Russell Graduate Student Mehrafshan Jafari Daniel Mindiola
02:20PM - 02:40PM	3755288 - New approaches to stabilize and activate reactive sulfur species Room: W178a	Professor Michael Pluth
02:20PM - 02:40PM	3754565 - Computational investigation of metalloporphyrins for ammonia oxidation Room: W180	Melissa Barona Samantha I. Johnson Margareth Mbea R Morris Bullock Simone Raugei
02:20PM - 02:40PM	3738911 - Crystal structure engineering in multimetallic high-index facet nanocatalysts Room: W179b	Bo Shen Liliang Huang Chris Wolverton Professor Chad A. Mirkin
02:25PM - 02:45PM	3741479 - Interfacial redox reactions for energy storage in inorganic solids Room: W181b	Professor Daniel R Gamelin Jose Araujo Atch Gopalan
02:25PM - 02:50PM	3737463 - Noncentrosymmetric tetrel pnictides, a class of its own Room: W186c	Shannon Lee Kirill Kovnir
02:30PM - 03:00PM	3746812 - Blueprint for a modern sustainable phosphorus chemistry Room: W178b	Jan Weigand
02:40PM - 03:00PM	3743494 - Cationic and neutral coinage metal complexes of alkenes and alkynes Room: W179a	Brandon Watson Anurag Noonikara Poyil Adway Zacharias Jaya Mehara Jana Roithova Professor Rasika Dias

**Sunday, August 21, 2022**

02:40PM - 03:00PM	3738392 - Metal-ligand cooperativity to assemble a neutral and terminal niobium phosphide Room: W181a	Shuruthi Senthil Dominik Fehn Seongyeon Kwon Michael Gau Patrick Carroll Karsten Meyer Mu-Hyun Baik Daniel Mindiola
02:40PM - 03:00PM	3736725 - Beyond lithium: Developing the chemistry of heavy alkali metal amides Room: W178a	Professor of Inorganic Chemistry Robert E. Mulvey Gerd Ballmann Thomas Gentner
02:40PM - 03:00PM	3754724 - Electrocatalytic ammonia oxidation using molecular copper catalysts Room: W180	Md Estak Ahmed Pokhraj Ghosh Mahdi Raghbi Boroujeni Christine Greene Timothy Warren
02:40PM - 03:00PM	3741219 - Withdrawn Room: W179b	
02:45PM - 03:05PM	3739089 - New frontiers in measuring and modulating charge transfer at quantum dot interfaces Room: W181b	Micaela Homer Florence Dou Brandi Cossairt
02:50PM - 03:15PM	3745738 - C-H activation and hydrogen/deuterium (H/D) exchange in alkanes: Mechanistic insight on heterogeneous catalysts Room: W186c	Aaron Sattler Michele Paccagnini
03:00PM - 03:20PM	3739927 - Insights into the binding modes of N <sub>2</sub> P <sub>2</sub> ligands with late first-row transition metals Room: W179a	Assistant Professor of Chemistry Elodie E. Marlier Claire Egesdal Logan Flom Abigail Halverson Riley Kazukiewicz Maddie Logelin Burke Meader Tracey Nelson Michelle Soltis Daron Janzen
03:00PM - 03:20PM	3741742 - Design and characterization of zwitterionic Al-DUT-5 Room: W181a	Graduate Researcher Michael Sehn Bastian Achenbach Norbert Stock
03:00PM - 03:30PM	3734744 - Frustrated Lewis pairs: New directions with group V reagents Room: W178b	Douglas Stephan

**Sunday, August 21, 2022**

03:00PM - 03:20PM	3737170 - Alkali metal dihydropyridines: Hydride surrogates for synthesis and catalysis Room: W178a	Research Associate Sumanta Banerjee Peter Macdonald Alan Kennedy Alexander Teijlingen Tell Tuttle Stuart Robertson Professor of Inorganic Chemistry Robert E. Mulvey
03:00PM - 03:20PM	3750058 - Solution speciation of metals – from molecular structure to liquid-liquid extraction Room: W180	Srikanth Nayak Alexander Gremillion Richard Wilson
03:00PM - 03:20PM	3743199 - Heterometallic CeIV/ VV oxo clusters with adjustable catalytic reactivities Room: W179b	Xingjie Wang May Nyman Omar Farha
03:05PM - 03:15PM	- Intermission Room: W181b	
03:15PM - 03:35PM	3741829 - Withdrawn Room: W181b	
03:15PM - 03:40PM	3737574 - Synthetic models for metalloenzyme active sites: Correlating proton and electron transfers in diiron complexes Room: W186c	Justin Lee Andrew Borovik
03:20PM - 03:40PM	3730831 - Synthesis and reactivity of novel low valent iron for reductive functionalization of carbon dioxide Room: W179a	Tristan Adamson Katherine Uttley Steven Kelley Wesley Bernskoetter
03:20PM - 03:40PM	3743857 - Formation of metathesis-relevant tungstacyclobutane complexes and propylene from tungstacyclopentane complexes and ethylene Room: W181a	Maxime Boudjelel Jessica Rodriguez Matthew Conley Richard Schrock
03:20PM - 03:35PM	- Intermission Room: W178a	
03:20PM - 03:40PM	3722831 - Nickel mediated sustainable chemical oxidation with a harmful oxidant Room: W180	Anusree Mukherjee
03:20PM - 03:40PM	3739337 - Mechanistic assessments of alkene dimerization on cationic Ni species grafted within mesoporous solids Room: W179b	Nicholas Jaegers Shuai Wang Iker Agirrezabal-Telleria Enrique Iglesia
03:30PM - 04:00PM	3744712 - Structure and reactivity in nontrigonal tricoordinate phosphorus compounds Room: W178b	Alexander Radosevich

**Sunday, August 21, 2022**

03:35PM - 03:55PM	3740024 - Anion-mediated redox approaches for alcohol oxidation reactions on nanoparticle catalysts Room: W181b	Bart Bartlett
03:35PM - 03:55PM	3740030 - Functionalization of tris(pyridyl)borate scorpionate complexes at the bridgehead: Electrophilic and nucleophilic substitutions Room: W178a	James McQuade Joydeb Goura Daisuke Shimoyama John Sheridan Professor Frieder Jaekle
03:40PM - 04:00PM	3738513 - Synthesis and magnetic properties of low-coordinate Fe(II) and Fe(I) amide complexes Room: W179a	Katharina Münster Dirk Baabe Jan Raeder Marc Walter Katharina Munster
03:40PM - 04:00PM	3739225 - Metal dependent properties of a series of isoelectronic multiply metal-ligand bonded photochemical super-reductants Room: W181a	Research Assistant Ayush Gupta Alex Filatov Michael Hopkins
03:40PM - 04:00PM	3743170 - Photodriven conformational gating- applications towards solar fuel technology Room: W180	Annika Holm Lisa Olshansky Paul Griffin Bronte Charette
03:40PM - 04:05PM	3737727 - Inverse molecular scaling relationships: Achieving high activity at low overpotentials for the electrochemical CO <sub>2</sub> reduction by molecular catalysts Room: W186c	Postdoc Weixuan Nie Charles McCrory
03:40PM - 04:00PM	3746360 - Water adsorption in zeolites-an experimental and a molecular simulation study Room: W179b	Hassan Alasiri Faizur Rahman
03:55PM - 04:15PM	3737736 - Catalytic reductions with colloidal semiconductor and intermetallic nanocrystals Room: W181b	Javier Vela
03:55PM - 04:15PM	3742100 - Polypyridyl carboranes for redox-switchable cobalt capture and release Room: W178a	Shannon Heinrich Gabriel Menard
04:00PM - 04:20PM	3741877 - Heterometallic Cu <sub>2</sub> Fe and Zn <sub>2</sub> Fe <sub>2</sub> complexes and Cu/Fe bifunctional small molecules activation reactivity Room: W179a	Yutthana Lakliang Neal Mankad
04:00PM - 04:20PM	3753274 - Electronic structure study and characterization of pyrazinediimine Ni(II) complexes Room: W181a	Daniela Arana Assistant Professor Sid Creutz
04:00PM - 04:15PM	- Intermission Room: W178b	

**Sunday, August 21, 2022**

04:00PM - 04:20PM	3755576 - Homogeneous electrocatalytic CO <sub>2</sub> reduction: Moving away from diimine ligands at group 6 and 7 Room: W180	Kyle Grice
04:00PM - 04:20PM	3748174 - Multifunctional catalysts based on nanoscale palladium supported on mesoporous silica by a molecular approach Room: W179b	Muhammad Zaheer Noor ul Huda
04:05PM - 04:30PM	3737872 - Controlling proton-coupled electron transfer processes underpinning fuel forming catalysis through synthetic modifications Room: W186c	Jaruwan Amtawong
04:15PM - 04:45PM	3739808 - Secrets to tailoring phosphorus molecules Room: W178b	Eamonn Conrad
04:15PM - 04:25PM	- Intermission Room: W181b	
04:15PM - 04:35PM	3754053 - Reactive indium compounds via redox-active ligands Room: W178a	Professor Glen Briand Tanner George Jason Masuda Michael Mosher Gregory Sandala Padmapriya Srinivasan Alexander Stockli
04:20PM - 04:40PM	3740937 - Synthesis and characterization of a new class of redox-active pincer complexes Room: W179a	Jaylan Billups Sidney Creutz
04:20PM - 04:40PM	3744689 - Generation of well-defined strong Lewis acid sites on SiO <sub>2</sub> Room: W181a	Kavya Samudrala Matthew Conley
04:20PM - 04:40PM	3749927 - Sustainable recycling of lithium-ion batteries Room: W180	Jedrzej Piatek
04:20PM - 04:40PM	3748516 - Formation of Al pair sites in CHA-type zeolite frameworks via transcription from Al-rich amorphous aluminosilicate Room: W179b	Yoshiyasu Imanishi Ting Xiao Mizuho Yabushita Ryota Osuga Toshiki Nishitoba Sachiko Maki Kiyoshi Kanie Wenbin Cao Toshiyuki Yokoi Atsushi Muramatsu
04:25PM - 04:45PM	3734870 - Nanocrystal conversion pathways to compositionally complex nanostructures Room: W181b	Sara Skrabalak
04:30PM - 04:55PM	3742051 - Rare-earth metal-organic frameworks: From dimers to fluoro-bridged clusters Room: W186c	Juan Vizuet Kenneth Balkus

**Sunday, August 21, 2022**

04:35PM - 04:55PM	3744358 - B-N Lewis pair functionalized polycyclic aromatic hydrocarbons Room: W178a	Jingyao Zuo
04:40PM - 05:00PM	3754831 - Synthesis, characterization, and kinetic studies of [2Fe-2E] (E = S, Se) model complexes Room: W179a	Erwin Weerawardhana Matthias Zeller Wei-Tsung Lee
04:40PM - 05:00PM	3739948 - Development of molecular catalysts with earth-abundant metals for hydrogenation and hydrofunctionalization Room: W181a	Guoqi Zhang
04:40PM - 05:00PM	3749969 - Withdrawn Room: W180	
04:40PM - 05:00PM	3747347 - Utilizing transition metal incorporated poly(triazine)imide frameworks for ethanol upgrading to n-butanol Room: W179b	Sabrina Cypher Magnus Pauly Carrie Donley Paul Maggard Karen Goldberg
04:45PM - 05:15PM	3736131 - From 1,4-diphosphabarrelenes to bent rigid bis(NHCs) – novel opportunities Room: W178b	Tatjana Terschüren Rainer Streubel
04:45PM - 05:05PM	3739256 - Adventures in perovskite nanocrystal surface chemistry, both old and new Room: W181b	Richard L. Brutchey
04:55PM - 05:20PM	3739814 - Coordination chemistry of Fe–S clusters dictated by remote steric effects Room: W186c	Alexandra Brown Daniel Suess
05:00PM - 05:20PM	3743614 - Reactivity of (CCC) iron complexes Room: W179a	Daniel Najera Alison Fout
05:00PM - 05:20PM	3742410 - In operando structural and mechanistic investigations of an electrode-grafted iron porphyrin based catalyst for the electrochemical reduction of H <sup>+</sup> and CO <sub>2</sub> through Raman spectroelectrochemistry Room: W181a	Anthony R. Ramuglia Khoa H. Ly Vishal Budhija Matthias Schwalbe Inez Weidinger
05:00PM - 05:20PM	3750231 - Bioinspired active site triads: Harnessing hemilability, charge responsivity, and ligand based redox activity for nitrogen oxyanion reduction Room: W180	Audrey Cheung Walker Marks John Gilbertson
05:00PM - 05:20PM	3739524 - Oxide ion and proton conductivity in hexagonal perovskite derivatives and palmierites Room: W179b	Abbie McLaughlin
05:05PM - 05:25PM	3740788 - Microwave-assisted solution synthesized crystalline germanium nanoparticles Room: W181b	Susan Kauzlarich



**Sunday, August 21, 2022**

05:15PM - 05:45PM	3741074 - Chiral P-based pi-conjugated systems for optoelectronics Room: W178b	Muriel Hissler
05:20PM - 05:40PM	3735288 - New pincer ligands containing bulky aryl groups for the support of unique ruthenium complexes and catalysts Room: W179a	Damien Culver James Boncella
05:20PM - 05:40PM	3753510 - Electric field induced organometallic reactivity in scanning tunneling microscope break junction measurements Room: W180	Nicholas Orchanian Sophia Guizzo Michael Steigerwald Colin Nuckolls Latha Venkataraman
05:20PM - 05:45PM	3753246 - Alkane oxidation via a photoactivated copper complex Room: W186c	Daniel Nascimento
05:20PM - 05:40PM	3739823 - Withdrawn Room: W179b	
05:25PM - 05:30PM	- Intermission Room: W181b	
05:30PM - 06:00PM	3740954 - Understanding the role of selenium speciation in the synthesis of copper selenophosphate nanocrystals Room: W181b	Professor Amy Prieto
05:40PM - 06:00PM	3741575 - Pressure as a probe of structural and transport properties of $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2n+4}?$ Room: W179b	Alexander Mark Muhetaer Aihaiti Ravhi Kumar Yue Meng Liangzi Deng Ching-Wu Chu Changyong Park Dmitry Popov Juan Carlos Campuzano Russell Hemley