



ACS Spring 2023

Sunday, March 26, 2023 - Thursday, March 30, 2023

Monday, March 27, 2023

08:00AM - 11:35AM	- ACS National Awards Plenary Sessions: Room: Room 206	Andrew Borovik Ana de Bettencourt-Dias Claus Lugmair Nora Radu
08:00AM - 08:05AM	- Introductory Remarks Room: Room 206	
08:05AM - 08:35AM	3815831 - Award Address (ACS Award for Distinguished Service in the Advancement of Inorganic Chemistry sponsored by Strem Chemicals part of Ascensus Specialties). Chirality in siderophores: Bioinorganic origins and consequences Room: Room 206	Alison Butler Professor
08:35AM - 09:05AM	3822161 - Award Address (ACS Award in Organometallic Chemistry sponsored by Dow). Organometallic aerobic oxidation catalysis Room: Room 206	Shannon Stahl
09:05AM - 09:35AM	3815136 - Award Address (Alfred Bader Award in Bioinorganic or Bioorganic Chemistry sponsored by the Alfred R. Bader Fund). EPR studies of the enzymatic synthesis of the organometallic H-cluster of [FeFe] hydrogenase Room: Room 206	R Britt
09:35AM - 10:05AM	3807095 - Award Address (ACS Award in the Chemistry of Materials sponsored by Research Corporation for Science Advancement). Inorganic nanotubes: From WS2 to "misfit" compounds Room: Room 206	Reshef Tenne
10:05AM - 10:35AM	3847617 - Award Address (F. Albert Cotton Award in Synthetic Inorganic Chemistry sponsored by the F. Albert Cotton Endowment Fund). Are metal cations narcissistic in metal-oxo cluster formation? Room: Room 206	May Nyman
10:35AM - 11:05AM	3827626 - Award Address (Harry Gray Award for Creative Work in Inorganic Chemistry by a Young Investigator sponsored by the Gray Award Endowment). Main-group renaissance: From unusual bonding to functional materials Room: Room 206	Robert Gilliard

Monday, March 27, 2023

11:05AM - 11:35AM	3817455 - Award Address (M. Frederick Hawthorne Award in Main Group Inorganic Chemistry sponsored by the M. Frederick Hawthorne Award Endowment). Small molecule generation Room: Room 206	Christopher Cummins
02:00PM - 05:30PM	- Remembering the Legacy of Synthetic Aza Macrocycles: Room: Room 212	Kristin Bowman-James Professor Thomas Meade Rebecca Roesner Wayne Schammel Kenneth Takeuchi
02:00PM - 02:10PM	- Introductory Remarks Room: Room 212	
02:00PM - 05:45PM	- 2023 Harry Gray Award for Creative Work in Inorganic Chemistry by a Young Investigator: Symposium in Honor of Robert J. Gilliard, Jr.: Room: Sagamore Ballroom 3	Roman Dobrovetsky Todd Hudnall
02:00PM - 02:05PM	- Introductory Remarks Room: Sagamore Ballroom 3	
02:00PM - 05:30PM	- 2023 ACS Award in the Chemistry of Materials: Symposium in Honor of Reshef Tenne: Room: Room 209	Maya Bar Sadan Sara Skrabalak Mauricio Terrones
02:00PM - 02:30PM	3822531 - Chemistry of transformative 2D TMC nanoparticles Room: Room 209	Jinwoo Cheon
02:00PM - 05:40PM	- 2023 M. Frederick Hawthorne Award in Main Group Inorganic Chemistry: Symposium in Honor of Christopher Cummins: Room: Room 205	Prof. Paula L. Diaconescu Joshua Figueroa Francois Gabbai
02:00PM - 02:20PM	3808708 - Applying FLPs to Fischer-Tropsch and Haber Bosch chemistry Room: Room 205	Douglas Stephan
02:00PM - 05:20PM	- 2023 F. Albert Cotton Award in Synthetic Inorganic Chemistry: Symposium in Honor of May Nyman: Room: Room 208	Ana Arteaga Carles Bo Clément Falaise
02:00PM - 02:05PM	- Introductory Remarks Room: Room 208	
02:00PM - 04:40PM	- Nanoscience: Synthesis, Characterization and Properties of Nanomaterials and Their Hierarchical Structures: Room: Room 238	Sarah Forney Liane Moreau Brian Trewyn
02:00PM - 02:20PM	3828475 - Vanadium intercalated WS ₂ with tunable electronic properties Room: Room 238	Kuixin Zhu Christina Li

Monday, March 27, 2023

02:00PM - 04:40PM	- Nanoscience: Applications of Nanomaterials: Room: Room 236	Brandon Jolly Nimai Pathak Brian Trewyn
02:00PM - 02:20PM	3823630 - Utilizing colloidal quantum wells for laser diodes: Applications of nanomaterials Room: Room 236	Jacob Beavon Mikhail Zamkov
02:00PM - 05:20PM	- Organometallic Chemistry: Applications to Materials and Polymer Science Room: Room 237	Mengjia Liu Nora Radu Christopher Uyeda
02:00PM - 02:20PM	3806099 - Selective Cs ⁺ ionophores via post-assembly modification on the non-covalent isoG-pentaplex Room: Room 237	Mengjia Liu Xiaodong Shi
02:00PM - 05:15PM	- Solid-State Inorganic Chemistry: Materials and Design Room: Room 206	Rebecca Haight Christopher Hendon Viktor V Poltavets , Ph.D. Assistant Professor Xin Zhang
02:00PM - 02:20PM	3834185 - Singlet fission in topologically different chemically identical zirconium metal-organic framework Room: Room 206	Sreehari Surendran Rajasree Pravas Deria
02:05PM - 02:25PM	3815941 - C–C bond forming reactions using boron Lewis acids Room: Sagamore Ballroom 3	Dr Rebecca Melen
02:05PM - 02:25PM	3823348 - Designing dual-functional metal-organic frameworks for photocatalysis Room: Room 208	Kyriakos Stylianou
02:10PM - 02:40PM	3823128 - Expanding the scope of biomimetic N ₂ S ₂ ligands: From building blocks for the synthesis of heterobimetallic HER catalysts to explorations of magnetic coupling Room: Room 212	Marcetta Darensbourg
02:20PM - 02:40PM	3814001 - Tris(ortho-carboranyl)borane Room: Room 205	Caleb Martin
02:20PM - 02:40PM	3825439 - Molten salt synthesis of lanthanide and transition metal doped Y ₂ O ₃ nanocrystals and studies on their morphology dependent luminescence Room: Room 238	Thulitha Abeywickrama Yuanbing Mao
02:20PM - 02:40PM	3803190 - Developing a generalized kinetic model for compartmentalization of organometallic catalysis Room: Room 236	Brandon Jolly
02:20PM - 02:40PM	3802580 - Carrier gas triggered controlled biolistic delivery of DNA and protein therapeutics from metal-organic frameworks Room: Room 237	Yalini Wijesundara Fabian Castro Herbert Orikeda Trashi Ikeda Trashi Jeremiah Gassensmith

Monday, March 27, 2023

02:20PM - 02:40PM	3825567 - Hydrogenic defects in conductive metal-organic frameworks Room: Room 206	Christopher Hendon
02:25PM - 02:45PM	3816076 - Alkyltelluroate: An effective Te-atom transfer reagent to form a triad of group 5 metals bis(telluridos) Room: Sagamore Ballroom 3	Daniel Mindiola
02:25PM - 02:45PM	3824338 - Fundamental chemistry of technetium-99 incorporated into polyoxometalates: Connecting metal oxide coordination sites with Tc oxidation state and speciation Room: Room 208	Lynn Francesconi
02:30PM - 03:00PM	3818964 - Recent progresses on film growth of transition metal dichalcogenides and heterostructures Room: Room 209	Young Lee
02:40PM - 03:10PM	3822127 - Journey in macrocycles from transition metals to polyanions Room: Room 212	Kristin Bowman-James Professor
02:40PM - 03:00PM	3814285 - Frustrated Lewis pair chelation and its application in main group materials chemistry Room: Room 205	Eric Rivard Brandon Frenette Alvaro Omana Michael Ferguson
02:40PM - 03:00PM	3827822 - Investigating the effect of crystal phase and bimetallic ratio modulation in FeCo and FeNi nanocarbides for applications in catalysis and magnetism Room: Room 238	Isabella Bertini Geoffrey Strouse
02:40PM - 03:00PM	3826353 - Confinement of photoactive ruthenium and rhenium metal complexes inside boron nitride nanotubes Room: Room 236	Cecilia Martinez Jimenez Graduate Student Riaz Mowzoon-Mogharrabi Thomas Ryu Matteo Pasquali Angel Marti-Arbona
02:40PM - 03:00PM	3820682 - Visualizing electrostatic interactions in oxalate-based organometallic complexes for next-generation multimodal calcium sensors Room: Room 237	Tochukwu Ofoegbuna Darek Dziekonski Rachel Kelly Juan Mauricio Mora Pale Hrebesh Molly Subhash Shyamala Pillai
02:40PM - 03:00PM	3826993 - Withdrawn Room: Room 206	
02:45PM - 03:05PM	3816921 - Probing the structure, bonding, and optoelectronic properties of main group formazanate heterocycles Room: Sagamore Ballroom 3	Joe Gilroy
02:45PM - 03:05PM	3822435 - Polyoxometalates as electrocatalysts for small molecular activation Room: Room 208	Ronny Neumann

Monday, March 27, 2023

03:00PM - 03:30PM	3822647 - Where everyone matters: Interfaces in 2D functional catalytic nanostructures Room: Room 209	Maya Bar Sadan
03:00PM - 03:20PM	3819077 - Expanding the scope of group 13 catalysis with ligand-based PCET Room: Room 205	Louise Berben
03:00PM - 03:20PM	- Intermission Room: Room 238	
03:00PM - 03:20PM	- Intermission Room: Room 236	
03:00PM - 03:20PM	3819657 - Metal olefin carbonyl complexes as organometallic precursors for focused electron beam-induced deposition Room: Room 237	Atul Chaudhary Jo-Chi Yu Xin Kang Prof. Lisa McElwee-White Crow Professor and Chair
03:00PM - 03:20PM	3825426 - Novel manganese-halide 1-D and 2-D frameworks and their emission properties Room: Room 206	Michael Ozide RayVen Gonzales Raúl Castañeda
03:00PM - 07:00PM	- Coordination Chemistry: Electronic Structure, Magnetism, and Spectroscopy: Room: Virtual Session	Marissa Clapson Michael Stollenz Associate Professor Anna Svetlanova-Larsen
03:00PM - 03:20PM	3822428 - Structural functionalities of hinge-like deprotonated bis-lawsone on ruthenium and osmium platforms Room: Virtual Session	Ms. yogita arya , Ph.D Scholar Goutam Lahiri
03:05PM - 03:25PM	3819744 - Boron-functionalized π -conjugated materials for optoelectronic and biomedical applications Room: Sagamore Ballroom 3	Dr. Frieder Jaekle Professor
03:05PM - 03:25PM	3818665 - Non-aqueous synthesis of uranyl peroxide cage clusters and cluster response to intense ionizing radiation Room: Room 208	Peter Burns
03:10PM - 03:40PM	3818842 - One (ethylene cross-bridged) ring to rule them all: Exceptional complex stability under harsh aqueous conditions applied to a range of chemical applications Room: Room 212	Prof. Timothy J. Hubin , PhD Prof. of Chemistry
03:20PM - 03:40PM	3820931 - Recent advances in the main group chemistry of N-heterocyclic carbenes and dithiolene radicals Room: Room 205	Gregory Robinson
03:20PM - 03:40PM	3827895 - Withdrawn Room: Room 238	

Monday, March 27, 2023

03:20PM - 03:40PM	3805722 - Super-resolution, deep-penetration, and non-destructive photoacoustic imaging with gold nanoparticle (AuNP) based wavefront shaping Room: Room 236	Jiuk Byun Tamal Roy Julia Holland Shahrose Khan Zaid Haddadin Nicholas Boechler Lisa Poulidakos
03:20PM - 03:40PM	3822725 - Pd catalyzed carbonylative polymerizations of 10-undecen-1-ol: synthetic route to polyketoesters with tunable compositions Room: Room 237	Shao-Yu Lo Research Assistant Carlton Folster Robin Harkins Ian Tonks
03:20PM - 03:40PM	3827175 - Design of functionalized metal-organic frameworks for selective extraction and recovery of lithium Room: Room 206	Joshua Samuel Mona Mohamed Sameh Elsaidi
03:20PM - 03:40PM	3828045 - Tuning the catalyst microenvironment for CO ₂ electroreduction Room: Virtual Session	Laura Rotundo Shahbaz Ahmad Dr. Mehmed Zahid Ertem Chemist Gerald Manbeck
03:25PM - 03:45PM	3818316 - Activation of small molecules: Can boron act as a transition metal? Room: Sagamore Ballroom 3	Holger Braunschweig
03:25PM - 03:45PM	3822465 - Surface structure of polyoxovanadate clusters influences charge transfer reactions Room: Room 208	Chari Peter Mamta Dagar Ellen Matson
03:30PM - 04:00PM	- Intermission Room: Room 209	
03:40PM - 04:00PM	- Intermission Room: Room 212	
03:40PM - 04:00PM	- Intermission Room: Room 205	
03:40PM - 04:00PM	3827597 - Selectively synthesizing quantum dot heterostructures using click chemistry for photoinduced charge transfer studies Room: Room 238	Sarah Forney David Watson
03:40PM - 04:00PM	3827476 - Electronic properties of nanoscale graphene-molecular junctions and networks Room: Room 236	Anusha Venkataraman Eberechukwu Victoria Amadi Chris Papadopoulos
03:40PM - 04:00PM	3817286 - One-dimensional metal-carbene chains with homo-/heterogeneous binding modes Room: Room 237	Boyu Qie Ziyi Wang Michael Crommie Felix Fischer

Monday, March 27, 2023

03:40PM - 03:55PM	- Intermission Room: Room 206	
03:40PM - 04:00PM	3824148 - Synthesis and characterization of ethylenediamine derivatized ligands and their platinum complexes Room: Virtual Session	Lashan Edirisinghe Inoka Perera Theshini Perera
03:45PM - 04:05PM	- Intermission Room: Sagamore Ballroom 3	
03:45PM - 03:55PM	- Intermission Room: Room 208	
03:55PM - 04:15PM	3822797 - From critical materials hydrometallurgy to fundamental actinide chemistry: Unconventional utilizations of polyoxometalates Room: Room 208	Gauthier Deblonde
03:55PM - 04:15PM	3822854 - Manipulating triplet excitons in MOFs for effective energy conversion Room: Room 206	Pravas Deria Sreehari Surendran Rajasree Venkatesh Gude Xinlin Li
04:00PM - 04:30PM	3820685 - NMR-guided directed evolution of myoglobin Room: Room 212	Ivan Korendovych
04:00PM - 04:30PM	3828365 - 2D carbides, nitrides, oxycarbides, and carbonitrides (MXenes) expand the nanomaterials world Room: Room 209	Yury Gogotsi
04:00PM - 04:20PM	3802891 - Polyhedral boron cluster reagents Room: Room 205	Alexander Spokoyny
04:00PM - 04:20PM	3823713 - UO ₂ on the nanoscale: Synthesis and advanced x-ray characterization of uranium oxide nanoparticles and their colloidal assemblies Room: Room 238	Liane Moreau Natalie Yaw Shinhyo Bang
04:00PM - 04:20PM	3826248 - Stable microporosity in water via hydrophobic zeolite nanoparticles Room: Room 236	Daniel Erdosy Malia Wenny Joy Cho Chris DelRe Miranda Walter Felipe Jiménez-Ángeles Baofu Qiao Ricardo Sanchez Yifeng Peng Brian Polizzotti Monica Olvera de la Cruz Jarad Mason
04:00PM - 04:20PM	3826823 - Withdrawn Room: Room 237	

Monday, March 27, 2023

04:00PM - 04:20PM	3825878 - Trinuclear and mononuclear Cd(II) complexes with the biphenyl-derived sulfonamide ligands: Synthesis, spectral, and structural analysis Room: Virtual Session	Dinithi Kaluthanthiri Frank Fronczek Laksiri Weerasinghe Inoka Perera Theshini Perera
04:05PM - 04:25PM	3827048 - Computational forays into the main group renaissance of inorganic chemistry Room: Sagamore Ballroom 3	Charles Webster Nathan Frey Kelsie Wentz Akachukwu Obi Robert Gilliard
04:15PM - 04:35PM	3819111 - Metallo-DNA assemblies with programmable shapes using metal-modified Watson-Crick base pairs Room: Room 208	Miguel Angel Galindo Dr
04:15PM - 04:35PM	3827243 - Fabrication of transparent, fire-retardant, and electrically conductive wood Room: Room 206	Bharat Baruah Ridham Raval
04:20PM - 04:40PM	3823246 - Photochemically- and thermally-induced transformations toward boron-doped heterocycles Room: Room 205	Bi Tra Robert Gilliard
04:20PM - 04:40PM	3812768 - Polyol synthesis of Pd icosahedral nanocrystals: Insights into the growth mechanism and size control Room: Room 238	Siyu Zhou Chenxiao Wang Younan Xia
04:20PM - 04:40PM	3825139 - Visible and NIR emitting multifunctional long persistent nanophosphors Room: Room 236	Nimai Pathak Yuchen Zhang Mark Shinyoung Lee Yuanbing Mao
04:20PM - 04:40PM	3821327 - Enantioselective ketone reduction with silanes catalyzed by DNA- copper(II) N- heterocyclic carbene-based hybrid catalysts via copper hydride formation Room: Room 237	Mitu Sharma Amanda Perkins Alison Duckworth Emily Rouse Sean Stokes Joseph Emerson
04:20PM - 04:40PM	3828952 - Hexadentate bis(amidines) as selective molecular locks for tailored group 11 metal complexes Room: Virtual Session	Michael Stollenz Associate Professor Janet Arras Omar Ugarte Trejo Connor O'Dea Nattamai Bhuvanesh Colin McMillen
04:25PM - 04:45PM	3816140 - Characteristic structure and reactivity of Al-anions and their derivatives Room: Sagamore Ballroom 3	Makoto Yamashita
04:30PM - 05:00PM	3828732 - Facile ozonation of light alkanes to oxygenates with high C economy in tunable condensed phase at ambient temperature Room: Room 212	Hongda Zhu Timothy Jackson Professor Bala Subramaniam

Monday, March 27, 2023

04:30PM - 05:00PM	3823962 - Enhanced atomic ordering leads to ultra-high thermoelectric performance Room: Room 209	Kanishka Biswas
04:35PM - 04:55PM	3826831 - From lanthanum tantalates to clusters to peroxides: Intersections with and inspiration from May Nyman Room: Room 208	Tori Forbes
04:35PM - 04:55PM	3818638 - In the search for magnetic skyrmions: An experimental and computational approach towards the synthesis and characterization of Mn _{1-x} Fe _x P Room: Room 206	Xin Zhang Austin Ferrenti Tanya Berry Brandon Bukowski Tyrel McQueen
04:40PM - 05:00PM	3823651 - Main group metal hydride and methyl compounds supported by the tris[(1-isopropylbenzimidazol-2-yl)dimethylsilyl]methyl ligand Room: Room 205	Michael Rauch Matthew Hammond David Vaccaro Gerard Parkin
04:40PM - 05:00PM	3812142 - Enantioselective cobalt-catalyzed ring-opening of unstrained heterocyclic alkenes Room: Room 237	Vibha Kanale Courtney Courtney Christopher Uyeda
04:40PM - 05:00PM	3812604 - Syntheses of tetraaminobis(4-fluorobenzyl)spiro(N,N)cyclotriphosphazenes: Evaluations of chemical, spectral and crystallographic properties Room: Virtual Session	Elmas Gamze Aytu? Okumus Dr. Arzu Binici Zeynel Kilic Tuncer Hökelek
04:45PM - 05:05PM	3824780 - Transformations of reactive boron heterocycles and new beginnings in polymeric materials Room: Sagamore Ballroom 3	Kelsie Wentz Andrew Molino Diane Dickie David Wilson Robert Gilliard Rebekka Klausen
04:55PM - 05:15PM	3828261 - Quantifying chemical complexity of inorganic crystals, structures, and molecules with assembly theory Room: Room 208	L Cronin
04:55PM - 05:15PM	3823531 - Origins of strain-induced ferromagnetism in LaCoO ₃ epitaxial thin films Room: Room 206	Rebecca Haight Daniel Russell Patrick Woodward Fengyuan Yang Jinwoo Hwang
05:00PM - 05:30PM	3826616 - Touching the third rail of chemical education: A STACT project progress report, burns and all Room: Room 212	Kenneth Goldsby Scott Ames
05:00PM - 05:30PM	3818675 - Finding new materials at the physics/chemistry interface Room: Room 209	Robert Cava

Monday, March 27, 2023

05:00PM - 05:20PM	3816691 - Unusual routes to benzoxadiphospholes via PP coupling reactions Room: Room 205	John Protasiewicz
05:00PM - 05:20PM	3823450 - Dinuclear cobalt catalyzed dimerization of alkyl azides Room: Room 237	Kyle Brook Sumeet Sahoo Alexandra Fresh Christopher Uyeda
05:00PM - 05:20PM	3815760 - Small molecule activation at Ni(0): Stabilization effects achieved by a boron-based secondary coordination sphere Room: Virtual Session	Marissa Clapson Harvey Sharma Joseph Zurakowski Marcus Drover
05:05PM - 05:25PM	3815540 - Chalcogen-bonded organic frameworks: Chalcogen-dependent assembly and stability Room: Sagamore Ballroom 3	C. Michael McGuirk
05:15PM - 05:20PM	- Concluding Remarks Room: Room 208	
05:20PM - 05:40PM	3819655 - Complexing and transporting anions with main group compounds Room: Room 205	Francois Gabbai
05:20PM - 05:40PM	3826036 - In-situ time-dependent ATR-FTIR spectroscopy in controlled gas flow: Mechanistic and kinetic study of reaction of nanoporous coordination polymer metal-organic framework with hazardous organo-sulfur compound Room: Virtual Session	Dr. Alexander Samokhvalov Associate Professor Shaheed Ullah
05:25PM - 05:45PM	3815360 - Accessing boron-heteroatom doped polycyclic aromatic hydrocarbons Room: Sagamore Ballroom 3	Caleb Martin
05:40PM - 06:00PM	3826136 - Highly selective fluorescence "turn-On" pyrrole based chemosensor for detection of Pb ²⁺ in aqueous environment Room: Virtual Session	Sharmin Akther Rupa Md Patwary William Emmanuel Ghann Jamal Uddin
06:00PM - 06:20PM	3822639 - First-principles calculations as a noninvasive probe of vermilion and cinnabar surfaces in art conservation science Room: Virtual Session	Aria Tauraso amalthea trobare Lilly Kidd Jessica Heimann SCIART Postdoctoral Fellow Zeev Rosenzweig Joseph Bennett
06:20PM - 06:40PM	3822517 - Eu ³⁺ and ligand-doped metal-organic frameworks for white-light emission Room: Virtual Session	Ms Athanasia Psalti PhD Student Anastasia Pournara Manolis Manos Antonios Hatzidimitriou Theodore Lazarides

Monday, March 27, 2023

06:40PM - 07:00PM

3819076 - Morphology-controlled ionothermal synthesis of iron
oxide via deep eutectic solvent
Room: Virtual Session

Dina Gaber
Maguy Abi Jaoude
Giovanni Palmisano