

WRM 2022 Posters List

General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)			
Thursday 10/20/2022 4:00 PM–8:00 PM Carson City 1&2 WRM010C			
ID	Author(s)	Title	Institution(s)
78	Chen, Vicky	Increasing protein expression through mRNA localization to the mitochondria in mammalian cells	University of California San Diego
106	Flynt, Alison	Analysis of cosmetics as trace evidence using SEM/EDS	Embry–Riddle Aeronautical University
107	Reece, Gabriella	Analysis of cosmetics as trace evidence	Embry–Riddle Aeronautical University
95	Canizares–Macias, Maria	Paper–based microdevice to couple Carrez reagents in the simultaneous determination of antioxidant capacity and total polyphenols	Universidad Nacional Autonoma de Mexico
99	Lee, Kaitlyn	Inhibitory potential of phytochemicals as antileukemic agents for drug–resistant T3151 mutant and wildtype BCR–ABL1: A molecular docking analysis	Pomona College
100	Brown, Theodore	Determination of potential Acetylcholinesterase and Apolipoprotein E4 inhibitors through in silico molecular docking	Pomona College
83	Tolley, William	Elucidating responses of silicon–based polymers for chemical detectors	Seacoast Science, Inc.
108	Pingleton, Gabrielle	Chemometric analyses of cosmetics for forensic applications	Embry–Riddle Aeronautical University
96	Pennington, Jess	Choline geranate–based ionic liquid/deep eutectic solvents targeting biofilms of common pathogens found in dental plaque	Northern Arizona University
82	Humphrey, Nicholas	Ethylene sensing on a heated platinum nanowire	University of California Irvine
97	Rego, Daniel	Triiodide polymer surface coating as a novel broad spectrum controlled delivery anti–microbial: A favorable alternative for anti–microbial coatings	Scientific Consultant
98	Hijazi, Mohamad	Designing hollow nanogels for drug delivery applications	Chapman University Schmid College of Science and Technology
94	Calvo, Blake	Predicting steroid free remission and chemical interaction within IBD positive patients using computational methods	Chapman University System; Children's Hospital of Orange County
79	Tolley, William	Chemical selectivity from polymer–based chemical detectors	Seacoast Science, Inc.
101	Eswaran, Aksithi Ananthakrishnan, Aparnaa Lin, Ashley Kathrani, Shikha Zhang, Ivan	The in–silico characterization of epigenetic drugs (for epigenetic targets such as DNA Methyltransferase and Histone deacetylases) on a colorectal cell line (HCT116)	Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program
87	Heydari, Bahar	Utilizing conformational control as a filter to obtain selective kinase inhibitors	San Diego State University
88	Heydari, Beeta	Leveraging dihedral angle control as a strategy to synthesize selective kinase inhibitors	San Diego State University
102	Mudda, Ojasvi Raja, Alfiya Ahlawat, Aayushi Kulkarni, Arya	In vitro characterization of human epigenetic drugs (DNA Methyltransferase inhibitors and related) on HCT–116 Colorectal cancer cells	Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program
103	Zang, Grace Deshpande, Aditi Selvaraj, Sanjana Pragash, Prabhav Namburu, Sowkya Dee, Madison Penttila, Sofia Challagundla, Sreenidhi	The in–silico and in–vitro characterization of epigenetic drugs (BET Protein Inhibitors and related analogs) on a colorectal cell line (HCT116)	Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program
86	Elhabashy, Aya	Novel long–term hypobaric storage technology, RipeLocker®, promotes distinct metabolite profiles in pomegranates: A preliminary NMR evaluation	California State University Fresno
91	Vega, Crystal Brown, Jacob Keshavarz, Amir Alvarez, Marcos Baghdasarian, Glen	Enhancing the antifungal activity of a silver cluster with quinones	Los Angeles City College Los Angeles City College Los Angeles City College Los Angeles City College Los Angeles City College
93	Fairbanks, Landon	Surface interactions of antimicrobial ionic liquids	Utah Tech University
81	Harrington, Anthony	Urban monitoring of antimicrobial resistance during a COVID–19 surge using wastewater surveillance	University of Nevada Las Vegas
80	Padilla, Cassandra	Chemical composition of aerosols from vaping e–liquids containing cannabidiol (CBD) and various flavoring compounds	University of California Davis
84	Piccini, Anastasia	Trace metals from nicotine–containing electronic cigarette aerosols under a variety of e–liquid and device operation conditions	University of California Davis
89	Diaz–Garcia, Sanyah Staten, Ashley Luy, Sheena	Formulation of amphiphilic cannabinoids	Utah Tech University Utah Tech University Utah Tech University
92	Montgomery, Keeton	Role of horticultural oils on the winter chill accumulation in pistachios: An NMR metabolomics investigation	California State University Fresno
90	Reynoso Rivas, Maria Del Carmen	Targeted identification and quantification of amino acids in metabolomics studies using 19F NMR: A proof–of–concept application to citrus varieties.	California State University Fresno
104	Delost, Michael	Development of new anionic annulations and analysis of FDA–approved architectures	Colorado State University; The University of Arizona
105	Stokes, Cameron	A microfluidic device for the quantitation of dissolved oxygen	Southern Utah University
85	Kazemeini, Sarah	An analysis of protein fouling effects on nanoparticle–modified boron–doped diamond electrodes	University of Nevada Las Vegas College of Sciences

WRM 2022 Posters List

General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)			
Friday 10/21/2022 1:00 PM–5:00 PM Carson City 1&2 WRM010B			
ID	Author(s)	Title	Institution(s)
166	An, Geon-Hyoung	Flexible energy storage devices enabling high energy densities and ultralong-life	Gyeongsang National University; Gyeongsang National University
167	Lee, Jaeyeon	Fiber-based flexible supercapacitors based on the fluorine and nitrogen co-doped mesoporous carbon fiber electrode	Gyeongsang National University
186	Li, Dingsheng	Examination of potential environmental justice issues of community exposure to water pollutants across counties in the United States	University of Nevada Reno
183	Young Tae, Kong	Development of college classes to improve pre-primary teachers' ability to organize arguments on social science issues (1)	Chinju National University of Education
172	Bailey, Marguerite Wald, Elliot	Metal-oxide photovoltaic cells synthesized using materials abundant in the Martian regolith	Carroll College; Montana Space Grant Consortium Carroll College; Montana Space Grant Consortium
165	Xiong, Alina	Phylogenetic and biochemical analysis of a filamentous algae locally thriving in recharging basins and its use as a potential tool for lowering nutrient load in wastewaters	California State University Fresno
173	Hill, Megan	Speciation of radioactive iodine from the accelerator-induced fission of enriched uranium	Gonzaga University; Argonne National Laboratory
174	Yoo, Geun	Crystal water in V2O5 cathode for zinc ion batteries with stable cycling stability	Gyeongsang National University
179	Kim, Seoyeong	Aqueous Zinc ion batteries with improved rate capacity based on chemical doped manganese oxide as cathode	Gyeongsang National University
182	Damjanovic, Nastasija	Free-standing optically transparent carbon electrodes for spectroelectrochemistry	University of Nevada Las Vegas
184	Young Tae, Kong	Comparative study of chemistry content areas on new elementary science textbooks in Korea (1)	Chinju National University of Education
168	Loera, Enedina Shariaty, Darius	Zinc complex of novel charge-transfer ligands: Photophysical trends and applications to solar fuels	University of Southern California University of Southern California
176	Garcia, Adaly	Plasmonic imaging of electrochemical reactions at individual Prussian blue nanoparticles	California State University Los Angeles
180	Marti, Erica	Presence of ranitidine in an urban wash before and after its banned use	University of Nevada Las Vegas
185	Fong, Clara	Importance of clean water in our times	American Chemical Society
169	Pumford, Elizabeth	Sustainable biomass-derived polymers for commercial applications	University of California Los Angeles
189	Letourneau, Emma Pochampally, Suraj Venkat Moon, Jaeyun	Study on the effect of nitrogen doping on a biochar's surface properties and adsorption capacity	University of Nevada Las Vegas University of Nevada Las Vegas University of Nevada Las Vegas
190	Weber, Dustyn	Electrochemical investigation of tetrahedral amorphous carbon electrodes	University of Nevada Las Vegas
187	Tran, Lillian	Second-order kinetic rate coefficients for the aqueous-phase sulfate radical (SO4) oxidation of isoprene-derived and other atmospherically relevant compounds	University of California Davis
177	Cordero, Paula	Detailed comparison of palladium and platinum nanoparticle-modified boron-doped diamond electrode for hydrogen peroxide detection	University of Nevada Las Vegas
175	Monroe, Elizabeth	Comparisons of metal nano-particle modified boron doped diamond electrodes for the electrochemical detection of hydrogen peroxide	University of Nevada Las Vegas College of Sciences
178	George, Jonathan	The nature of technetium in spent fuel reprocessing	University of Nevada Las Vegas College of Sciences
170	Rakos, Jason	Detection of pertechnetate using square wave anodic stripping voltammetry on carbon electrodes	University of Nevada Las Vegas
171	Olney, Renee	Direct dissolution and stabilization of UF6 in ionic liquid and the pathways for recovery of uranium tetrafluoride	University of Nevada Las Vegas
191	Allard, Marco	Plastic based chemical reactor to study pseudo-first order and 2nd order degradation of methyl-green under basic conditions	La Sierra University
188	Jensen, Jacob	Toxic metal sequestration using microfluidics	Southern Utah University
181	Naimpally, Ashok	Life cycle water consumption assesment of electroplating rinse steel-tanks	California State University Long Beach

WRM 2022 Posters List

General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)			
Friday 10/21/2022 5:00 PM–9:00 PM Carson City 1&2 WRM010A			
ID	Author(s)	Title	Institution(s)
267	Johnson, Kate	Validation agreement for percent product yield	University of California Davis
243	Abbey, Eric	Crystalline PPN organoborohydrides: Ditching the metal allows other non-covalent solid-state interactions to shine	Eastern Washington University
247	Martinez, Ashley	Soft nanomaterial carriers: Eliminating burst release of their cargo	Northern Arizona University; Northern Arizona University
268	Shah, Ishaan	Tuning the geometry and electronic structure of core-shell plasmonic nanoparticles	Chapman University System
276	Locke, Cameron	Photochromic polymers based on the photo-activation of 2,2'-bipyridine-sulfur oxide donor-acceptor complex	University of Nevada Reno
245	Bains, Amreen	Redox-active ligand catalyzed borrowing-hydrogen reactions via hydrogen atom transfer	Colorado State University
270	Cifligu, Petrika	Wide band gap amorphous semiconductor synthesis from powdered oxalate salts via white X-ray irradiation with high-pressure assistance	University of Nevada Las Vegas
244	Cox, Seonghyeok	Bis(3-alkoxyphenyl) viologen bistosylate salts: Synthesis, thermotropic liquid-crystalline, and light-emitting properties	University of Nevada Las Vegas
248	Nguyen, Kenneth	High-boiling point solvents for molecular-scale conductance measurements	University of Southern California
250	Liu, Xin	Photocatalytic strategies for the activation of organic fluorides and fluoropolymers	Colorado State University
275	King, David	Bis(4-alkoxyphenyl) viologen bis(nonafate) salts: Synthesis, thermotropic liquid-crystalline, and light-emitting properties	University of Nevada Las Vegas
251	Taylor, Trevor	Exploring new physics with Molecular Ions	University of Nevada Las Vegas
260	King, David	Synthesis and luminescent properties of n-alkyl-o-styrylpyridinium salts with different counterions	University of Nevada Las Vegas
262	Campbell, William	Synthesis and fluorescent properties of n-alkyl-p-styrylpyridinium salts with different counterions	University of Nevada Las Vegas
263	ash, Jeff	Selective deprotection of phosphorus (V) compounds to form monosubstituted organophosphorous acids	University of Nevada Las Vegas
252	Cox, Seonghyeok	Poly(pyridinium salt)s containing 4,4'-(9-fluorenylidene)dianiline with various organic counterions exhibiting high solubilities in organic solvents and light-emitting properties	University of Nevada Las Vegas
269	Organiscak, Marisa M Organiscak	Synthesis and late-stage functionalization of illudalic acid and its analogs	West Virginia University
271	Williams, Brandon	Extraction equilibria and kinetics in Mo(VI) liquid-liquid extraction from nitric acid	University of Nevada Las Vegas
255	Tejada, Urian	Supercontinuum white light generation in water for a high repetition rate transient absorption system	University of Southern California
259	Fernando, Payagala Udawattage Ashvin Sandhu, Samar Cobb, Jared	A versatile green MOF (MIP-202): Nanoscale synthesis and post-functionalization towards efficient chemical warfare agent surrogate hydrolysis and on-site electrochemical detection via novel potentiometric and voltametric sensing strategies	Bennett Aerospace Inc; US Army Engineer Research and Development Center University of California San Diego US Army Engineer Research and Development Center
272	Stoddard, Kylee	Fabrication and applications of PDMS frits	Southern Utah University
265	Rauh, Hannah	Nickel-mediated intermolecular four-fold arylation of an alkyne	California Polytechnic State University
258	Klein, Audrey Tang, Thomas	Competition kinetics of cyclopropanation of substituted arylindenes and aryl-3,4-dihydronaphthalenes	California Polytechnic State University California Polytechnic State University
266	Werner, Nathan	9-Borobicyclo[3.3.1]nonane-catalyzed hydroboration of terminal aromatic alkynes with pinacolborane	Southern Utah University
253	Berrios, Meekaela	Electrophilic ring opening of substituted 1-arylbicyclo[3.1.0]hexanes	California Polytechnic State University
273	McMullen, Cameron	Ylidenenorbornadienedicarboxylates as tunable amphiphilic molecules for micellar cargo delivery	California Polytechnic State University
264	L'Heureux, Scott	Understanding the role of hydrogen-bonding in the fragmentation kinetics of Ylidenenorbornadiene adducts	California Polytechnic State University
261	Nguyen, Ashley	Light and catalyst-promoted inherent and regioselective perfluoroalkylation of arenes and heteroarenes	San Diego State University College of Sciences
278	Shi, Changxia	Hybrid monomer design towards intrinsically circular and high-performance polymers	Colorado State University
257	Jang, Harry	Fluorination of uranium oxide microspheres via bifluorides	University of Nevada Las Vegas
254	Flory, Emily	Reversible synthesis of pyridinium ionic liquids	Utah Tech University
249	Flaum, Vivian	Cloud Point Extraction for the determination of lead with a Bismuth-Film Glassy Carbon Electrode by Anodic Stripping Voltammetry	University of Nevada Las Vegas
274	Stenlund, Tanner	Copper nanoparticle formation via sonication	Southern Utah University
256	Tran, Viet	Building a ruthenium analogue of a well studied iron system	University of California San Diego
246	Castillo, Alex	Exploring reactions using heterogeneous frustrated Lewis pairs	University of South Dakota; Northern Arizona University
277	Viswanath, Lakshmi	Investigation on the axial reactivity of substituted hybrid subphthalocyanine-subnaphthalocyanine ensembles	Utah Valley University