

Poster #	Presenter	School	Postdoc/Grad	Title
1	Syed Ahsan Imam	UH	Grad	A Global Kinetic Model for High Temperature Homogeneous Oxidative Dehydrogenation of Ethane
2	Christian Sandoval-Pauker	Rice	Postdoc	Photocatalytic Degradation of Perfluorooctanoic Acid using Pyrene-based Covalent Organic Frameworks with Diacetylene Linkers
3	A. K. M. Kazi Aurnob and Mark B. Berko	LSU	Grad	Low temperature methane partial oxidation and coupling over Rh/ZSM-5 in a high-pressure continuous flow reactor
4	Ai-Shi Wang	Rice	Grad	Morphology of Fe/S clusters during CNT growth
5	Peixuan Jin	Rice	Grad	Transition Metal-Doped Clays for PAH Remediation: Electron Transfer-Driven Catalysis Revealed by DFT and Experiment
6	Varad Joshi	UH	Grad	Improving Ethyl Acetate Selectivity in Ethanol Dehydrogenation through Proximity Effects in Supported Cu Catalysts
7	Harrison Lippie	UT	Grad	Generalizing the behavior of dynamic Ir complex metal oxide catalysts for the oxygen evolution reaction in acid
8	Dhagash M. Pandit	UH	Grad	Optimization of a Catalytic Monolith Reactor Design for Carbon Efficient Ethylene Production from Natural Gas
9	Tafadzwa Mutepaire	Rice	Grad	Development of Photocatalytic Covalent Organic Frameworks for PFAS Degradation
10	Austin Morales	UH	Grad	Decoupling Path Dependent and Independent Elements from Transient Degrees of Rate Control for Oscillatory Steady States and Beyond
11	Jiwon Kim	UT	Grad	AuPd Single Atom Alloy Catalysts for Electrochemical CO <sub>2</sub> Reduction
12	Clinton Obeng Manu	UH	Grad	Humidity-Driven Direct Air Capture with Mixed Metal Hydroxides
13	Siddhesh S. Borkar	TAMU	Grad	Tandem Methanolysis and Catalytic Transfer Hydrogenolysis of Polyethylene Terephthalate to p-Xylene Over Cu/ZnZrOx Catalysts
14	Jay Bender	UT	Grad	When will electrolyte composition influence electrocatalytic water splitting activity?
15	Joseph Lane	UH	Grad	Kinetic Modeling of the Role of Water and Pd in Ethane Oxidation to Acetic Acid over Pd-MoV Oxides
16	Suchetana Samanta	UH	Grad	Reaction pathways and intermediates for CO <sub>2</sub> methanation over Ni-Ce mixed metal oxides
17	Kaitlyn M. Birkhoff	Rice	Grad	Accessing Phenoxymine Calcium Complexes via Manipulation of the Schlenk Equilibrium
18	Akshat Singh	UT	Grad	Understanding Strong Metal Support Interactions for Electrocatalysis
19	Debasmita Halder	UH	Grad	Insights into Metal Incorporation and Demetallation Strategies for Zeolite Defect Engineering
20	Valery Okatenko	Rice	Postdoc	Indirect electrochemical conversion of (bi)carbonate to formate in a porous solid electrolyte reactor
21	Jui Junnarkar	Rice	Grad	PLASMA-ENHANCED CATALYST AEROSOL ENGINEERING FOR HIGH-YIELD CNT PRODUCTION IN A FCCVD PROCESS
22	Kenneth Kusima	UH	Grad	Modeling of Formic Acid Electro-Oxidation under Dynamic Reaction Conditions
23	Dinora Rodriguez	Rice	Grad	Isolation and Reactivity of Multidentate s-block Carbene Complexes
24	Fatima Mahnaz	TAMU	Grad	Metal Oxide Mobility in Zeolite: Impact on Hydrocarbon Pools and its Inhibition via Silicalite-1 Coating during CO <sub>2</sub> Hydrogenation
25	Dia Sahсах	UH	Postdoc	Surface Charge to Control Adsorbate Binding Beyond Periodic Trends
26	Sarah Glass	Rice	Grad	Electrocatalytic Defluorination of PFAS on Palladium Nanoparticle Based Cathodes
27	Harshita Kethireddy	Syzygy Plasmonics	Industry	Commercializing Transformative Electrified Photoreactor Technology Platform for Sustainable Chemical Production
28	Amir Abutalib	UH	Grad	Unraveling the Role of Gallium Speciation in Zeolites for Methanol-to-Hydrocarbon Tandem Catalysis
29	Meghana Idamakanti	UH	Grad	Propane Dehydrogenation on Pt/Carbon Felts using Conventional and Joule Heating
30	Juan A. Donoso	Rice	Grad	Pilot-scale Near-Complete Boron Nitride Photocatalytic Mineralization of PFAS via Synergistic UVC/UV Radiation
31	Richard Tran	UH	Postdoc	Rational design of nanoscale stabilized oxide catalysts for OER with OC22
32	Xiaoyu Xin	UH	Grad	Steric Hindrance in Zeolites: Implications for Catalytic Reactions of Amines
33	Md Shahriar Hossain	UH	Grad	Computational Prediction of Hydrodehalogenation Trends on Rhodium
34	Youngkun Chung	Rice	Postdoc	Chemical-free light-driven destruction of per- and polyfluoroalkyl substances (PFAS) using non-toxic boron nitride (BN)
35	Atharva S. Burtte	UH	Grad	Chromatographic Dynamic Chemisorption: An Alternative to Conventional Estimation of Metallic Dispersion
36	Edgar Turizo-Pinilla	UH	Grad	Crystal Engineering of Siliceous AFI Zeolites: Mechanistic Insights from (Non-)seeded Syntheses
37	Jenna Vito	TAMU	Grad	Effect of Support on PdZn Intermetallic Catalysts for the Semi-Hydrogenation of Acetylene
38	Muhammad Fiji	UH	Grad	Controlling Zeolite Crystallization and Hierarchical Structure via Seeding Strategies
39	Sambita Choudhury	UH	Grad	Enhancing Mass Transport in One-Dimensional Zeolites by Facile Post-synthesis Treatments
40	Nusrat Jahan Rifat	LSU	Grad	Theoretical Investigation on Nucleation, Growth and Energetics of Co and Ni Nanoparticles on CeO <sub>2</sub> (111)
41	Jaeyul Kim	UH	Grad	GaN Formation in CHA Zeolite through Framework Gallium Scavenging
42	Atharva S. Burtte	UH	Grad	Formic Acid Electro-oxidation: Elucidating Enhancements under Dynamic Oscillations
43	Byeong Jun Cha and Kiheon Hong	Rice	Grad	Unveiling Electronic and Geometric Structure Sensitivity of Pd-on-Ni Catalyst for Enhanced Nitrite Reduction
44	Ahmad Algazzer	Rice	Grad	Engineered gas input for stable electrochemical CO <sub>2</sub> reduction
45	Jon-Marc McGregor	UT	Grad	Probing the Role of Interfacial Caton Concentration in Modulating CO <sub>2</sub> Reduction Kinetics
46	Kumari Shilpa	UH	Grad	Enhancing Diffusion and Catalyst Lifetime of Zeolites By Novel Secondary Growth and Post-Treatment Methods
47	Christopher Rodriguez	Rice	Undergrad	Synthesis of Multidentate S-block Carbene Complexes Towards Polymerization
48	Benjamin Page	UH	Grad	Isopotential Electron Titration for Quantifying Metal-Adsorbate Charge Transfer
49	Dimpel Dimpel	Rice	Grad	Understanding the dynamics of Pd-Au bimetallic catalyst for vinyl acetate synthesis using in-situ/operando analysis
50	Chenfang Huang	UH	Grad	Designing Ti-Zeolites with Gradients in Heteroatom Composition for Improved Olefins Epoxidation
51	Zachary Levell	UT	Grad	Single metal atoms embedded in nitrogen-doped graphene (M-N-C)
52	Ruoyu Wang	UT	Grad	Constant-Potential Machine Learning Force Field for Electrochemical Interface
53	Shu-Yan Jiang	Rice	Postdoc	Tandem Adsorption and Photodegradation of Perfluorooctanoic Acid using Pyrene-based Covalent Organic Frameworks with Diacetylene Linkers
54	Fahmida Akter	UH	Grad	Computational Insights into Non-Thermal Effects in Photothermal CO <sub>2</sub> Methanation on Ru catalysts

55	Chase Sellers	Rice	Grad	Theoretical Insights for Designing Stable Low-Iridium Oxygen Evolution Catalysts
56	Saerom Yu	UT	Grad	Realistic Atomistic Simulation of Heterogeneous Electrocatalysis
57	Ali Mohammed	UH	Grad	Selective Catalytic Dehydrogenation of Liquid Organic Hydrogen Carriers through Visible Light Photolysis
58	Soubarno Sen	UH	Grad	Recontextualizing the energy efficiency for dynamic modulation of formic acid electro-oxidation
59	Ahmad Arshadi	LSU	Grad	Theoretical analysis of the formate dehydrogenation on Pd(111), Pt(111) and Ni(111) catalysts
60	Mamta Mamta	Rice	Postdoc	CCC Carbene Pincer Mg Complexes and Reactivity: NHC Ring Expansion and Decarbonization
61	Zach Adler	Rice	Grad	Cation tuning of solid state electrolyte devices for hydrogen peroxide electrosynthesis
62	Judith Mendoza	UH	Postdoc	Interzeolite Transformation Intermediates as Hybrid Catalysts for the Conversion of Bulky Molecules
63	Hanchang Kwon	UH	Postdoc	Engineering the Morphology of Aluminum Oxide for Advanced Catalyst Supports
64	Jugal Kishore Das	UH	Postdoc	Rational Design of Iron-Encapsulated Small-pore Chabazite Zeolites
65	Nik Suphailai	TAMU	Grad	CO <sub>2</sub> cycloaddition of epichlorohydrin over CALF-20 as acid catalyst
66	Shashwati C. da Cunha	UT	Grad	Process Design to Guide Aqueous and Non-Aqueous CO <sub>2</sub> Electrolysis to Scale-up