PURDUE UNIVERSITY

DAVIDSON SCHOOL
OF CHEMICAL ENGINEERING

To: New Graduate Students and ChE Faculty
From: John Morgan, Director of Graduate Studies
Subject: Advisor Assignments, Fall 2020
Date: 11/8/2022
Cc: Business office, B. Johnson, J. Valley

For the students joining our graduate program this fall, the advisor assignments are shown below. Students should contact their new advisors at their earliest convenience to plan and discuss their research.

ADVISOR ASSIGNMENTS – Fall 2022

Student	Advisor	Project
Apte, Tanvi	Narsimhan/Ardekani	Separating blood and other multicomponent suspensions in microfluidic environments
Aydemir, Esin	Pol	Advanced quasi-solid state batteries for wide temperature operations
Beickman, Zachary	Liu	Cartilage Tissue Engineering
Bhadouria, Ashutosh	Tackett	Low-Temperature Electrocatalytic Manufacturing of Essential Chemical Building Blocks
Chen, Hao	Li	Explainable Machine Learning for Chemical Engineering
Cheng, Yu-Hsiang	Greeley	First principles studies of shale gas conversion
Cruz Delgado, Bryan	Gounder	Selective catalytic reduction of nitrogen oxides
Dhanwani, Naresh	Basaran	Extreme ultraviolet (EUV) light for nanolithography for miniaturization of features on computer chips via breakup of liquid jets of molten tin
Egan, Marisa	Liu	In Vitro Tissue Model for Drug Testing
Gustafson, Sarah	Gounder	Controlling active site distributions for acid-catalyzed reactions
Haselow, Mitchell	Savoie	Algorithmic Mechanism Extraction from Reaction Data
Heil, Joseph	Tackett	Low-Temperature Electrocatalytic Manufacturing of Essential Chemical Building Blocks
Huang, Bo-Chuan	Yuan	Gene-environmental interactions to the progression and treatment efficacy of neurodegenerative diseases
Huang, Po-Chun	Li/Masuku	Mathematical Modeling and Optimization for Electrification of Process Heating
Huang, Wei-Ling	Miller	Hydrocarbon Conversion with Lewis Acid Catalysts/Development of Characterization of Electrocatalysts for dehydrogenation
John, Anwin	Greeley	Low-carbon manufacturing of chemical via electrocatalysis
Kim, Jeonghui	Dou	Perovskite solar cells and LEDs
Kim, Ted	Miller	Hydrocarbon Conversion with Lewis Acid Catalysts/Development of Characterization of Electrocatalysts for dehydrogenation
Lee, Albert	Bernal/Reklaitis	Advanced algorithms for superstructure optimization to elucidate technology performance targets
Lin, Pin-Jie	Liu	In Vitro Tissue Model for Drug Testing
Lu, Yen-Chun	Li/Bao	Machine-Learning Guided Measure of Stem Cell Fate Decisions
Marquardt, Andrew	Savoie	Computational Design of Mixed Conducting Polymers
Nian, Zhichen	Savoie	Computational Design of 2D-Hybrid Perovskites
Norfleet, Andrew	Gounder	Controlling active site distributions for acid-catalyzed reactions
Parab, Durvesh	Greeley	First principles studies of shale gas conversion
Schofield, Drew	Savoie	Machine Learning for Reaction Deduction Problems
Sekiya, Ry	Gounder	Bimetallic catalyst design for tandem reactions
Ulgey, Esra	Savoie	Discovery of the Reaction Networks Governing Electrolyte Degradation
Xiong, Beichen	Pol	Advanced quasi-solid state batteries for wide temperature operations
Yang, Meng-Hua	Nagy	Design, optimization and advanced plan-wide control of a modular miniaturized pharmaceutical manufacturing plant (MiniPharm)
Yang, Yun-Fang	Boudouris	Spintronic Polymers and Devices
Yüksel, Begum	Savoie	Computational Design of Mixed Conducting Polymers

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