

**August 14, 2023**

**1. Presenter: Professor Young-Shin Jun**

- Title: High purity extraction of rare earth elements from low-grade resources using supercritical fluids
- Division: [COMSCI] Committee on Science
- Session: Critical Materials: Perspectives from the Industry, Government, and Research Communities: Recovery of Critical Materials
- **Time/Date: 10:25am - 10:50am/August 14, 2023**
- Location: Room 2002, West Bldg. (Moscone Center)

**2. Presenter: Ping I Chou**

- Title: Photolysis of disposable surgical masks facilitates abiotic manganese oxide formation
- Division: [ENVR] Division of Environmental Chemistry
- Session: Processes and Risks of Micro-& Nano-Plastics in the Environment
- **Time/Date: 03:15pm - 03:35pm/ August 14, 2023**
- Location: Room 3006, West Bldg. (Moscone Center)

**August 15, 2023**

**3. Presenter: Ping I Chou**

- Title: Surface functional groups affect iron (hydr)oxide heterogeneous nucleation: Implications for membrane scaling
- Division: [GEOC] Division of Geochemistry
- Session: Advancements in the Characterization and Modeling of Interfacial Phenomena Driving Environmental Processes
- **Time/Date: 08:05am - 08:25am/August 15, 2023**
- Location: Room 2022, West Bldg. (Moscone Center)

**4. Presenter: Ying Wang**

- Title: Nanoconfinement controls calcium sulfate nucleation
- Division: [GEOC] Division of Geochemistry
- Session: Advancements in the Characterization and Modeling of Interfacial Phenomena Driving Environmental Processes
- **Time/Date: 09:05am - 09:25am/August 15, 2023**
- Location: Room 2022, West Bldg. (Moscone Center)

**5. Presenter: Xuanhao Wu**

- Title: Electrified nitrogen element reduction in the aqueous phase
- Division: Division of Environmental Chemistry
- Session: Electrified Water Treatment Processes:
- Time/Date: 09:20am - 09:40am/August 15, 2023
- Location: Room 3001, West Bldg. (Moscone Center)

**6. Presenter: Ying Wang**

- Title: Calcium sulfate nucleation at the oil-water interface
- Division: [COLL] Division of Colloid & Surface Chemistry
- Session: Basic Research in Colloids, Surfactants and Interfaces
- **Time/Date: 10:50am - 11:10am/August 15, 2023**
- Location: Room 307, South Bldg. (Moscone Center)

**7. Presenter: Yaguang Zhu**

- Title: Uncovering the formation and phase transformation of calcium carbonate nanoparticle near the oil–water interface with X-ray scattering techniques
- Division: [GEOC] Division of Geochemistry
- Session: Advancements in the Characterization and Modeling of Interfacial Phenomena Driving Environmental Processes
- **Time/Date: 11:00am - 11:20am/August 15, 2023**
- Location: Room 2022, West Bldg. (Moscone Center)

**8. Presenter: Jessica Ray**

- Title: Treatment of stormwater runoff Organics using cost-effective, biochar adsorbent infiltration media
- Division: [AGRO] Division of Agrochemicals
- Session: Pesticides and Other Organics in Urban Environments
- **Time/Date: 11:30am - 11:55am/August 15,2023**
- Location: Room 3018, West Bldg. (Moscone Center)

**9. Presenter: Jessica Ray**

- Title: Oxidized vanadium carbide nanosheets for catalytic defluorination of PFAS in water
- Division: [ENVR] Division of Environmental Chemistry
- Session: Women in Science and Engineering (WISE): Biological and Chemical Processes and Interactions for Water Treatment
- **Time/Date: 05:14pm - 05:37pm/ August 15,2023**
- Location: Room 3008, West Bldg. (Moscone Center)

**August 16, 2023**

**10. Presenter: Qingyun Li**

- Title: Straddling geosciences and environmental engineering as a chemist
- Division: [ENVR] Division of Environmental Chemistry
- Session: Women in Science and Engineering (WISE): Air Quality, Aerosols, Climate Change Geochemical Processes
- **Time/Date: 09:09am - 09:32am/ August 16, 2023**
- Location: Room 3008, West Bldg. (Moscone Center)

**11. Presenter: Chelsea Wren Neil**

- Title: Investigating high temperature gas transport for nuclear event detection
- Division: [ENVR] Division of Environmental Chemistry
- Session: Women in Science and Engineering (WISE): Air Quality, Aerosols, Climate Change Geochemical Processes
- **Time/Date: 09:32am - 09:55am/ August 16, 2023**
- Location: Room 3008, West Bldg. (Moscone Center)

**12. Presenter: Lijie Zhang**

- Title: Methylmercury formation in Arctic soils: Implications in remobilization and transformation of heavy metals under changing climate
- Division: [ENVR] Division of Environmental Chemistry
- Session: Women in Science and Engineering (WISE): Air Quality, Aerosols, Climate Change Geochemical Processes
- **Time/Date: 10:05am - 10:28am/ August 16, 2023**
- Location: Room 3008, West Bldg. (Moscone Center)

**13. Presenter: Minkyung Jung**

- Title: Novel struvite and calcium phosphate mineral-hydrogel composites for simultaneous removal of ammonium and phosphate
- Division: [ENVR] Division of Environmental Chemistry
- Session: Innovative Materials for Environmental Sustainability
- **Time/Date: 11:00am - 11:20am/ August 16, 2023**
- Location: Room 3006, West Bldg. (Moscone Center)

**14. Presenter: Prof. Young-Shin, Jun**

- Title: Thermodynamics and kinetics of heterogeneous nucleation of  $\text{CaCO}_3$  in water-energy systems
- Division: [COLL] Division of Colloid & Surface Chemistry
- Session: Symposium in Honor of Cynthia M. Friend
- **Time/Date: 03:55pm - 04:25pm/ August 16, 2023**
- Location: Room 305, South Bldg. (Moscone Center)