

## Environmental NanoChemistry Laboratory Presentations at Fall 2022 ACS Meeting

### [3755417 - Distinctively different calcium sulfate nucleation at the oil-water interface from the bulk solution](#)

09:00am - 09:20am USA / Canada - Central - August 21, 2022 | Location: Regency B (Hyatt Regency McCormick Place)

[Ying Wang](#), Presenter; [Yaguang Zhu](#); [Professor Young-Shin Jun](#)

Division: [GEOC] Division of Geochemistry

Session Type: Oral - Hybrid

### [3743934 - Controlling calcium phosphate/calcium silicate chemistry in novel mineral-hydrogel composites to provide a robust platform for P removal and recovery](#)

11:05am - 11:20am USA / Canada - Central - August 21, 2022 | Location: Great Lakes C (Marriott Marquis Chicago)

[Albern Tan](#), Presenter; [Professor Young-Shin Jun](#)

Division: [ENVR] Division of Environmental Chemistry

Session Type: Oral - Hybrid

### [3738311 - Arsenopyrite dissolution and secondary iron\(III\) \(Hydr\)oxide nucleation and growth in the presence of bicarbonate and CO<sub>2</sub> Exchange](#)

08:50am - 09:10am USA / Canada - Central - August 22, 2022 | Location: Regency B (Hyatt Regency McCormick Place)

[Ping-I Chou](#), Presenter; [Xuanhao Wu](#); [Zhenwei Gao](#); [Yaguang Zhu](#); [Professor Young-Shin Jun](#)

Division: [GEOC] Division of Geochemistry

Session Type: Oral - Hybrid

### [3736911 - Engineered photothermal airgap membrane distillation using a super-hydrophilic aluminum plate](#)

02:20pm - 02:40pm USA / Canada - Central - August 22, 2022 | Location: W186a (McCormick Place Convention Center)

[Deoukchen Ghim](#), Presenter; [Ping-I Chou](#); [Kenny Li](#); [Professor Young-Shin Jun](#)

Division: [I&EC] Division of Industrial and Engineering Chemistry

Session Type: Oral - In-person

### [3739811 - Abiotic manganese oxidation by peroxy radicals generated from the reaction between hydroxyl radicals and their alcohol scavengers](#)

09:05am - 09:25am USA / Canada - Central - August 23, 2022 | Location: Regency B (Hyatt Regency McCormick Place)

[Zhenwei Gao](#), Presenter; [Professor Young-Shin Jun](#)

Division: [GEOC] Division of Geochemistry

Session Type: Oral - Hybrid

**3747432 - Wollastonite (CaSiO<sub>3</sub>) carbonation in water-bearing supercritical CO<sub>2</sub>**

09:50am - 10:20am USA / Canada - Central - August 24, 2022 | Location: Regency B (Hyatt Regency McCormick Place)

**Professor Young-Shin Jun**, Presenter; **Yujia Min**

Division: [GEOC] Division of Geochemistry

Session Type: Oral - Hybrid

**3741067 - Photochemically-induced oxidative dissolution of MoS<sub>2</sub> nanosheets and its thickness dependency**

08:25am - 08:45am USA / Canada - Central - August 24, 2022 | Location: Great Lakes B (Marriott Marquis Chicago)

**Deoukchen Ghim**, Presenter; **Ping-I Chou**; **Seung Hee Chae**; **Professor Young-Shin Jun**

Division: [ENVR] Division of Environmental Chemistry

Session Type: Oral - Hybrid

**3738365 - Photochemically-induced formation of manganese oxide nanoparticles by reactive halogen radicals in briny water**

08:45am - 09:05am USA / Canada - Central - August 24, 2022 | Location: Great Lakes B (Marriott Marquis Chicago)

**Zhenwei Gao**, Presenter; **Charlie Skurie**; **Jing Liu**; **Professor Young-Shin Jun**

Division: [ENVR] Division of Environmental Chemistry

Session Type: Oral - Hybrid