

Presentation schedules and locations, sorted by date and time:

Monday, March 18, 2024
02:20-2:40 PM - Mingyang Song: Photochemical heterogeneous MnO ₂ formation on polyethylene terephthalate (PET): Mechanistic insights into ROS-driven oxidation (Room 228 - Ernest N. Morial Convention Center)
Tuesday, March 19, 2024
08:00-8:30 AM - Prof. Young-Shin Jun: Formation of CaCO ₃ and CaSO ₄ nanoparticles at oil–water interfaces (Room 345 - Ernest N. Morial Convention Center)
11:00 11:30 AM - Dr. Yaguang Zhu: Understanding the critical role of anions in polymeric ion exchange resin for moisture-swing CO ₂ capture (Mardi Gras Blrm Salon A - New Orleans Marriott)
03:00-3:30 PM - Prof. Young-Shin Jun: Supercritical fluid-enabled high purity extraction of rare earth elements from coal fly ash (Room 348 - Ernest N. Morial Convention Center)
04:30-4:55 PM - Ping-I Chou: Surface functional groups affect calcium carbonate heterogeneous nucleation: Implications for membrane scaling (Room 347 - Ernest N. Morial Convention Center)
Wednesday, March 20, 2024
09:05 - 09:25 AM - Dr. Chelsea W. Neil: Fracture characteristic impacts on carbon mineralization in mafic and ultramafic rocks (Room 345 - Ernest N. Morial Convention Center)
09:40-10:00 AM - Ying Wang: Maximizing olivine utilization for simultaneous CO ₂ storage and critical element recovery (Room 349 - Ernest N. Morial Convention Center)
10:05-10:25 AM - Prof. Young-Shin Jun: Photochemically-synthesized cobalt-incorporated manganese oxides with enhanced conductivity (Room 238 - Ernest N. Morial Convention Center)
10:20-10:40 AM - Xueyi Liu: Synergistic interactions of Co ²⁺ and Mg ²⁺ in carbonation: Implications for selective critical element recovery (Room 349 - Ernest N. Morial Convention Center)
03:05-3:35 PM - Prof. Young-Shin Jun: Aqueous chemistry in nanopores with chemical functional groups (R09 - Ernest N. Morial Convention Center)
04:35-05:55 PM – Dr. Yaguang Zhu: Chaotropic ion mediated effective ion sieving with two-dimensional titanium carbide membrane (Room 220 - Ernest N. Morial Convention Center)

Presentation list:

Prof. Young-Shin Jun

1. PAPER TITLE: Photochemically-synthesized cobalt-incorporated manganese oxides with enhanced conductivity

Wednesday, March 20, 2024 from 10:05 AM - 10:25 AM
Room 238 - Ernest N. Morial Convention Center

2. PAPER TITLE: Aqueous chemistry in nanopores with chemical functional groups

Wednesday, March 20, 2024 from 3:05 PM - 3:35 PM
R09 - Ernest N. Morial Convention Center

3. PAPER TITLE: Formation of CaCO_3 and CaSO_4 nanoparticles at oil–water interfaces

Tuesday, March 19, 2024 from 8:00 AM - 8:30 AM
Room 345 - Ernest N. Morial Convention Center

4. PAPER TITLE: Supercritical fluid-enabled high purity extraction of rare earth elements from coal fly ash

Tuesday, March 19, 2024 from 3:00 PM - 3:30 PM
Room 348 - Ernest N. Morial Convention Center

Ping-I Chou

PAPER TITLE: Surface functional groups affect calcium carbonate heterogeneous nucleation: Implications for membrane scaling

Tuesday March 19, 2024 from 4:30 PM - 4:55 PM
Room 347 - Ernest N. Morial Convention Center

Ying Wang

PAPER TITLE: Maximizing olivine utilization for simultaneous CO₂ storage and critical element recovery

Wednesday, March 20, 2024 from 9:40 AM - 10:00 AM
Room 349 - Ernest N. Morial Convention Center

Xueyi Liu

PAPER TITLE: Synergistic interactions of Co²⁺ and Mg²⁺ in carbonation: Implications for selective critical element recovery

Wednesday, March 20, 2024 from 10:20 AM - 10:40 AM
Room 349 - Ernest N. Morial Convention Center

Mingyang Song

PAPER TITLE: Photochemical heterogeneous MnO₂ formation on polyethylene terephthalate (PET): Mechanistic insights into ROS-driven oxidation

Monday, March 18, 2024 from 2:20 PM - 2:40 PM
Room 228 - Ernest N. Morial Convention Center

Alumni:

Dr. Yaguang Zhu

1.PAPER TITLE: Understanding the critical role of anions in polymeric ion exchange resin for moisture-swing CO2 capture

Tuesday, March 19, 2024 from 11:00 AM - 11:30 AM
Mardi Gras Blrm Salon A (New Orleans Marriott)

2. PAPER TITLE: Chaotropic ion mediated effective ion sieving with two-dimensional titanium carbide membrane

Wednesday, March 20, 2024 from 04:35 PM - 05:55 PM
Room 220 (Ernest N. Morial Convention Center)

Dr. Chelsea W. Neil

PAPER TITLE: Fracture characteristic impacts on carbon mineralization in mafic and ultramafic rocks

Wednesday, March 20, 2024 from 09:05 AM - 09:25 AM
Room 345 (Ernest N. Morial Convention Center)