MIT ChemE

Spring 2025 Seminars

Innovating in – and Learning from – Battery Science to Address Challenges in Electrochemistry

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Friday, April 18, 2025 - 3:00pm, 66-110

Chibueze Amanchukwu is a Neubauer Family Assistant Professor in the Pritzker School of Molecular Engineering at the University of Chicago, a faculty affiliate in the Data Science Institute, and a joint appointee at Argonne National Laboratory. His research is focused on enabling long duration electrical (batteries) and chemical energy storage for a sustainable energy future. His team is especially interested in modifying electrolyte and ion solvation behavior to control electrochemical processes occurring in batteries and the valorization of waste (e.g., CO2) to valuable fuels and chemicals. He has been named a “Talented Twelve” by Chemical & Engineering News (C&EN) and an Inventor Under 35 by MIT Technology Review (Global). His work has been recognized with the NSF CAREER Award, DOE Early Career Award, Army Research Office Early Career Award, Google Research Scholar Award, Camille-Dreyfus Teacher-Scholar Award, ECS-Toyota Young Investigator Fellowship, CIFAR Azrieli Global Scholar Award, and the 3M Nontenured Faculty Award. He obtained his PhD in chemical engineering as a NDSEG Fellow at MIT and was a TomKat Center Postdoctoral Fellow at Stanford University.

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