MSE Start-up High-T Tech Wins 2021 Spinoff Prize: High-Tech, a UMD start-up company launched by Liangbing Hu has won The Spinoff Prize 2021 for its next-gen approach to addressing an obstacle in industrial catalyst development. Learn more...

RESEARCH

Simple, Robust Models of Diffusion Coefficients Developed for Metals & Alloys: JC Zhao, MSE Chair at UMD College Park, and his postdoctoral researcher, Wei Zhong, have developed new and simple models to mathematically describe the diffusion coefficients of metals and alloys as a function of composition and temperature. Learn more...
Simple, Robust Models of Diffusion Coefficients Developed for Metals & Alloys: JC Zhao, MSE Chair at UMD College Park, and his postdoctoral researcher, Wei Zhong, have developed new and simple models to mathematically describe the diffusion coefficients of metals and alloys as a function of composition and temperature. Learn more...

Koeth’s Cube on Display at Nuclear History Museum; Research Featured in Science Channel Doc: A block of uranium, taken from the reactor Hitler attempted to build, was entrusted to MSE Prof. Tim Koeth and is now on display in the National Museum of Nuclear Science & History. A related Science Channel documentary, “Hitler’s Secret Bomb” featured Koeth and Ph.D. Student Mimi Hiebert. Learn more...

Ion Storage Systems Receives U.S. Advanced Battery Consortium Award: Ion Storage Systems, an UMD energy startup that aims to commercialize solid-state batteries, is working to tackle the challenge of developing scalable and cost-effective manufacturing. Learn more...
**ANNOUNCEMENTS**

*MSE Welcomes 2 New Professors:* Carlos A. Rios Ocampo and You Zhou, who completed their post-docs at MIT and Harvard, respectively, both joined the department in 2021 as assistant professors. Ocampo created the world's first light-based memory chip, while Zhou was named a Forces "30 Under 30 in Science" in 2018. [Learn more...](#)

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**UMD Training Reactor Hits 5K Operations:** On September 14, the 250 kW Maryland University Training Reactor (MUTR) conducted its 5,000th operation. The first startup was in 1974, although the history of the radiation facilities on campus goes back to 1954 when nuclear engineering courses were first offered. [Learn more...](#)

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**DEPARTMENT HONORS & AWARDS**

Liangbing Hu, UMD *Distinguished Scholar Teacher*, and Kirwan Faculty Research & Scholarship Prize
Eric Wachsman, UMD *Distinguished University Professor*, and nominated President of The Electrochemical Society
Yifei Mo & Liangbing Hu, Clarivate 'Highly Cited' Researchers

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**UPCOMING EVENTS**

**2021 Distinguished Scholar-Teacher Lecture Series**
Liangbing Hu, MSE Professor and Center for Materials Innovation Director, will speak on the topic, "Materials Innovations and Manufacturing for Sustainability."
**Thursday, November 18, 4:00 pm (EST)**
[Follow this link to register!](#)

**CREB 2021 Biannual Fall Meeting**
**Friday, December 10, 10:00 am - 5:00 pm**
Clark Hall Forum, UMD College Park
[Follow this link to learn more!](#)