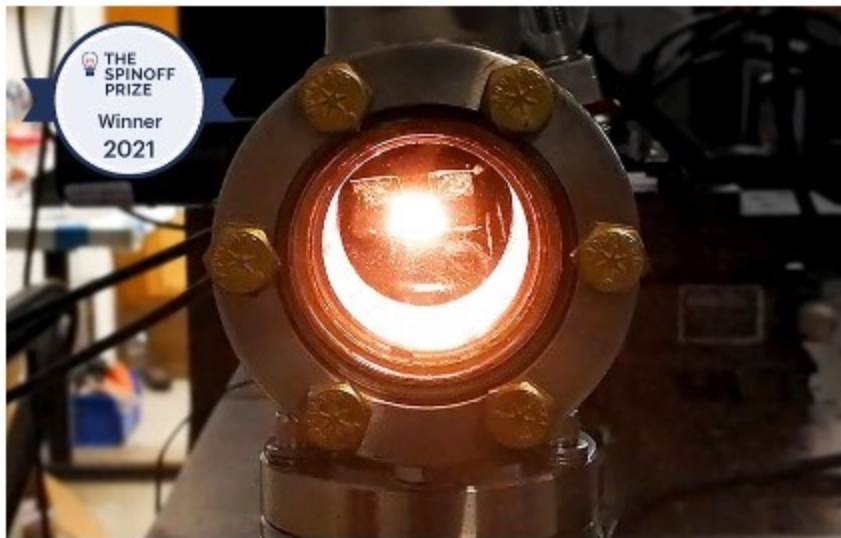




# A. JAMES CLARK SCHOOL OF ENGINEERING

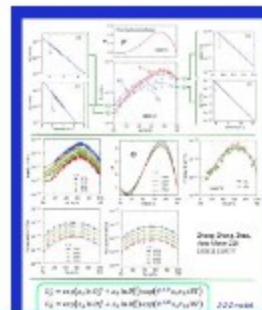
Department of Materials Science & Engineering



**MSE Start-up High-T Tech Wins 2021 Spinoff Prize:** HighT-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

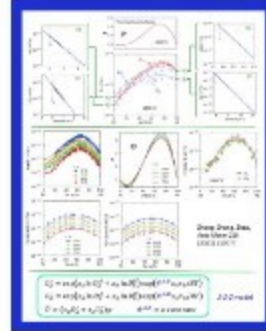
**Simple, Robust Models of Diffusion Coefficients Developed for Metals & Alloys:** [JC Zhao](#), MSE Chair at UMD College Park, and his postdoctoral researcher, Wei Zhong, have developed new and simple models to mathematically describe the diffusion coefficients of metals and alloys as a function of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



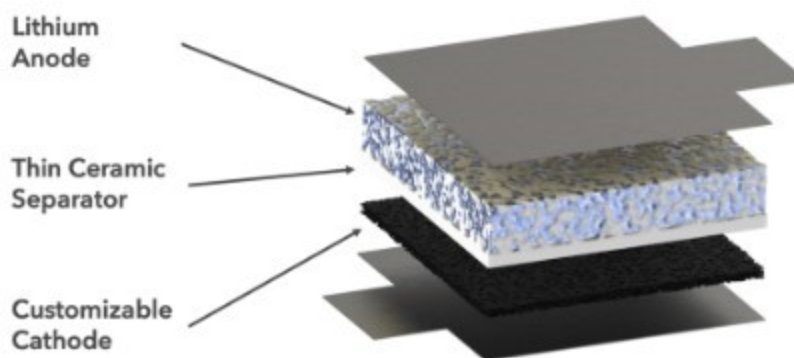
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## RESEARCH

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**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...](#)

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## 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...](#)

**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...](#)



## 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

## 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!](#)