PROFILE

Senior Staff Researcher
Idaho National Laboratory

CITATION

Rising technical innovator, leader, and principal investigator in electrochemical conversion of inexpensive feedstocks to value-added chemicals and fuels, and scaling and manufacturing of electrochemical systems

DONG DING

Asian American Most Promising Engineer of the Year

Dr. Dong Ding is a senior staff engineer in the Energy and Environmental Science & Technology directorate at Idaho National Laboratory, leading a group of 17 researchers in electrochemical processing and electrocalalysis for clean energy storage and conversion. He is a principal investigator for multiple projects including direct funded and Laboratory Directed Research & Development (LDRD).

Dr. Ding is a technical lead for the HydroGEN of Energy Materials Network under DOE-Energy Efficiency and Renewable Energy (EERE)-Fuel cell Technology Office. His lab has fully equipped capabilities of HT roll-to-roll (HT-R2R), solid oxide additive manufacturing, high throughput materials testing, elevated temperature electrocatalysis, and electrode engineering and diagnosis.

He is an adjunct professor in the departments of Chemical & Materials Engineering at New Mexico State University and University of Idaho, respectively. Before joining INL, he was senior materials engineer at Redox Power Systems in Maryland.

Dr. Ding received his doctorate in material science at the University of Science & Technology of China, where he earned a bachelor's in materials chemistry. He was a postdoctoral fellow at West Virginia and National Energy Technology Lab in Morgantown, West Virginia (2009-2010) and at Georgia Institute of Technology (2010-2014).

Dr. Ding has 89 peer-reviewed publications with an H index of 30, where three are highly cited (ESI) and 29 have an impact factor over 10. He holds three U.S. patent and 11 patent applications He served as an executive committee member at High-Temperature Energy, Materials and Processes division for the Electrochemical Society, an editorial board member for Journal of Power Sources Advances and a guest editor for Frontier in Materials and Frontier in Chemistry. His current research interests include natural gas/natural gas liquids upgrading, hydrogen production through water splitting, advanced manufacturing of solid oxide cells/stacks, hybrid energy integration, CO_2 conversion, ammonia electrosynthesis, fuel cells, elecrocatalysis, and batteries.

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