



Junjie Niu, PhD

Richard & Joanne Grigg Associate Professor
Materials Science & Engineering
University of Wisconsin-Milwaukee

Junjie Niu is a Richard & Joanne Grigg Associate Professor of the Department of Materials Science & Engineering, College of Engineering & Applied Science, at the University of Wisconsin-Milwaukee (UWM). Dr. Niu is an Affiliate Associate Professor of the School of Freshwater Sciences at UWM. Dr. Niu is on the Editorial Board of the Journal of Physics: Materials (IOP Publishing) and Guest Editor of the Journal of Physics: Energy. Dr. Niu has received a series of awards including the Richard & Joanne Grigg Associate Professorship in 2022, the 2020 Office of Research/ UWM Foundation Research Award, the Ignite Grant Program for Applied Research Award for 2020-2021, the 2019 MRS Best Presentation Award, Outstanding Research Award in 2019, UWMF Technology Licensing Award in 2018, and “ChenGuang” Scholar in 2007. In 2016, Dr. Niu received the Camille Dreyfus Teacher-Scholar Award Nominee and the Shaw Scientist Award Nominee. He also received the Beckman Young Investigator Award Nominee in 2015. Dr. Niu has organized and chaired several international conferences in the STEM fields. Before joining UWM, Dr. Niu was a Postdoctoral Associate at the Massachusetts Institute of Technology (MIT) from 2011 to 2014. From 2009 to 2011, he moved to the University of Pennsylvania (UPenn) and Drexel University as a Postdoc researcher. He received his Ph.D. at Zhejiang University in 2005. Dr. Niu’s interdisciplinary research includes understanding fundamental science in physics/chemistry, and engineering materials in applications of energy storage with next-generation lithium-ion and beyond batteries, and water treatments particularly with PFAS remediation and the corresponding chemo-mechanics. Dr. Niu has received several millions of dollars in research grants, which are sponsored by a variety of agencies including federal agencies such as NSF and industries. Niu has published more than 90 papers in peer-reviewed journals including Nature Nanotechnology and two book chapters and has been issued two US patents and over three provisional patents. By 2023, his total citation is 15,500+ times with a H-index of 49 and an i10 index of 102 (<https://scholar.google.com/citations?user=K0Wb48cAAAAJ&hl=en>). More information can be found on the Niu Group website at <https://people.uwm.edu/niu/>. Dr. Niu is devoted to helping STEM students meet the ever-increasing educational demand in the water-energy nexus for their future careers.