

**Kathy Lu, Ph.D., Professor**

Director of Artificial Intelligence-Guided Materials Thrust in College of Engineering  
Director of VT Graduate Assistance in Areas of National Need Program  
Materials Science and Engineering Department, Virginia Tech  
260A Holden Hall – M/C 0237 Blacksburg, VA 24061  
Phone: 540-231-3225; e-mail: [klu@vt.edu](mailto:klu@vt.edu), <http://www.lu.mse.vt.edu>

Kathy Lu obtained her BS degree in Ceramics (Tianjin University, 1990), her MS and PhD degrees in Materials Science and Engineering (Ohio State University, 1999 and 2000). Additional professional experience includes Director of Materials Processing at Center for Innovative Sintered Products of Pennsylvania State University (2000-2001) and Materials Development and Processing Scientist at Energizer Battery Company (2001-2004). She joined Virginia Tech in 2004. Dr. Lu completed a sabbatical year (2012-2013) at Technischen Universität Darmstadt in Germany and then a 5-month stay at Chalmers University of Technology in Sweden (2021).

Dr. Lu's primary research interests are materials synthesis, processing, characterization, and fundamental studies; energy materials; and harsh environment materials.

Dr. Lu is a Board Member and the Director of the Research and Doctoral Universities Group of Sigma Xi. She is an Editor of Materials Letters and Member of Board of Trustees of the Science Museum of Virginia. She also serves numerous professional society functions, for example, American Ceramic Society Award Committee Chair (2021-2022), American Ceramic Society Diversity and Inclusion Committee (2021-2022), TMS MPMD Nominations & Awards Committee Chair (March 2021-March 2024), and TMS Professional Development Committee Chair (2021-2023). On campus, she serves on University Council (2020-2023), College of Engineering Promotion and Tenure Committee (2017-2023). She is currently the Director of Artificial Intelligence-Guided Materials Thrust and Director of VT GAANN Program from Department of Education. Dr. Lu's total external research funding amount is \$10.8 million. Current and past advisees include 26 MS and PhD (4 females) students, and 17 post-docs/visiting scholars (5 females). She has also funded 74 undergraduate students (25 females) in her lab to conduct research. Dr. Lu has published ~200 peer-reviewed journal papers and 22 proceeding papers. She has single-authored 2 books, edited 5 books, and given >200 presentations and posters. Kathy has been honored with several awards including TMS Fellow (2022), Executive Leadership in Academic Technology, Engineering and Science (ELATES) Fellow (2020), Fulbright Distinguished Chair Award (2020), American Ceramic Society Fellow (2017), Virginia Tech Alumni Award for Research Excellence (2016), Virginia Tech College of Engineering Faculty Fellow Award (2012), Friedrich Wilhelm Bessel Research Award of Alexander von Humboldt Foundation (2011), Karl Schwartzwalder-Professional Achievement in Ceramic Engineering (PACE) Award from American Ceramic Society (2008), and the Ralph E. Powe Junior Faculty Award from Oak Ridge Associated Universities (2005). Kathy is a member of American Ceramic Society; Materials Research Society; American Association for the Advancement of Science; Sigma Xi, The Scientific Research Society; Alpha Sigma Mu International Professional Honor Society; and TMS, The Minerals, Metals & Materials Society.