

Dr. Keith A. Brown is an Assistant Professor of Mechanical Engineering, Materials Science & Engineering, and Physics and the Moorman-Simon Interdisciplinary Career Development Professor at Boston University. He earned a Ph.D. in Applied Physics at Harvard University under the guidance of Robert M. Westervelt and an S.B. in physics from MIT. Following his doctoral work, he was an International Institute for Nanotechnology postdoctoral fellow with Chad A. Mirkin at Northwestern University. The Brown group studies polymers and smart fluids to determine how useful properties emerge from hierarchical structure. A considerable focus is developing approaches that increase the throughput of materials research using scanning probe lithography, machine learning, additive manufacturing, and combinatorial chemistry. Keith has co-authored 65 peer-reviewed publications, five issued patents, and his work has been recognized through the reception of awards including the Frontiers of Materials Award from the Minerals, Metals, and Materials Society (TMS), the Materials Science and Engineering Innovation award from Boston University, the Omar Farha Award for Research Leadership from Northwestern University, as a “Future star of the AVS,” the AVS Nanometer-Scale Science and Technology Division Postdoctoral Award, and the National Defense Science and Engineering Graduate (NDSEG) Fellowship. Keith is currently serving on the Nano Letters Early Career Advisory Board and has organized symposia at the AVS International Symposium and at the MRS Fall Meeting.