



Dr. Eric K. Lin
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The NIST MSED serves as the nation's reference laboratory responsible for producing the measurement methods, standards, and data needed to advance the manufacture and use of Materials, with the goal of improving industrial competitiveness and addressing national needs. To achieve this, the Division advances the measurement science of materials properties and structure; processing, flow, and transport; and the functional properties and performance (electrical, optical, biological, and mechanical). Currently, the Division consists of nearly one hundred fifty scientists with a broad portfolio of research that includes advanced imaging measurements of advanced battery materials, small-angle neutron and x-ray scattering measurements of nanostructured materials, the separation and purification of single-wall carbon nanotubes, and the development of new tests for the assessment of alloys for automotive lightweighting. The division works closely with industry, government, and university partners to ensure that the critical measurement needs of the nation are being met.

Dr. Lin received his B.S.E. from Princeton University in 1991 (summa cum laude) and Masters and Ph.D. degrees from Stanford in 1992 and 1996, respectively, all in chemical engineering. He joined the NIST Polymers Division as an NRC-NIST postdoctoral associate in 1996 working with Dr. Wen-li Wu on neutron reflectivity measurements of polymer chain mobility near surfaces and interfaces. He then joined the permanent staff in 1998 where he established programs in the measurement of nanoporous low-k dielectric thin films and polymers for advanced photolithography. In 2002, he became the Leader of the Electronics Materials Group,

where he established world class research programs in semiconductor electronics processing, the properties of nanoscale materials, polymers at surfaces and interfaces, and organic electronics. He has authored or co-authored more than 90 publications and presented for than 50 invited lectures. He has been recognized with awards that include the NIST Bronze and Silver Medals, the NIST Slichter Award, the Presidential Early Career Award for Scientists and Engineers (PECASE), selected as a participant in the National Academy of Science Kavli Frontiers of Science program, and the NAE Frontiers of Engineering program. He was elected a Fellow of the American Physical Society in 2010. He is active in professional organizations including the American Institute of Chemical Engineers where he served as a Counselor in the Materials Division, the American Physical Society where he served on the Committee on Minorities, and the Materials Research Society as a symposium organizer.