Prof. Sergei V. Kalinin

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Sergei V. Kalinin is a Weston Fulton chair professor at the University of Tennessee, Knoxville. In 2022 – 2023, he has been a principal scientist at Amazon (moon shot factory). Before then, he spent 20 years at ORNL where he was corporate fellow and group leader at the Center for Nanophase Materials Sciences. His research focuses on the applications of ML/AI methods in materials synthesis, discovery, and optimization, automated experiment and autonomous imaging and characterization workflows in scanning transmission electron microscopy and scanning probes for physics discovery, atomic fabrication, as well as mesoscopic studies of electrochemical, ferroelectric, and transport phenomena. Sergei has co-authored >650 publications, with a total citation of ~65,000 and an h-index of ~125. He is a fellow of NAI, Academia Europaea, AAAS, RSC, MRS, APS, IoP, IEEE, Foresight Institute, and AVS; a recipient of the Feynmann Prize of Foresight Institute (2022), Blavatnik Award for Physical Sciences (2018), RMS medal for Scanning Probe Microscopy (2015), Burton medal of Microscopy Society of America (2010) and a number of other distinctions.