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Ahmed A. Busnaina, Ph.D. is the founding Director of the National Science Foundation's Nanoscale Science and Engineering Center for High-rate Nanomanufacturing since 2004, the Advanced Nanomanufacturing Cluster for Smart Sensors and Materials since 2015, and the NSF Center for Microcontamination Control at Northeastern University, Boston, MA since 2002. He is the founder and CTO of Nano OPS, Inc. since 2017. Before joining Northeastern University in 2000, he was a professor at Clarkson University from 1984-2000. Dr. Busnaina is internationally recognized for his semiconductor nanofabrication work, emphasizing yield and defects. He developed a directed assembly-based nano and microscale additive manufacturing of inorganic and organic conductors, semiconductors, and dielectrics for making micro and nanoscale interconnects, electronics, LEDs, sensors, and other devices. He authored more than 600 papers in journals, proceedings, and conferences. He also has 25 granted and 45 pending patents. He was awarded the 2020 American Society of Mechanical Engineers (ASME) William T. Ennor Manufacturing Technology Medal. He is a fellow of the National Academy of Inventors, a fellow of the American Society of Mechanical Engineers, and a Fulbright Senior Scholar. He is an editor of the Journal of Microelectronic Engineering and an associate editor of the Journal of Nanoparticle Research. He also serves on many advisory boards, including Samsung Electronics, the Journal of Electronic Materials Letters, the Journal of Nanomaterials, and the Journal of nanomanufacturing.