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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 and the NSF Center for Microcontamination Control at Northeastern University, Boston, MA, since 2002. He is also the founder and CTO of Nano OPS, Inc. since 2017. Prior to joining Northeastern University, he was a professor and a director of the Particulate Control Lab at Clarkson University from 1984-2000. Dr. Busnaina is internationally recognized for his work on semiconductor fabrication with an emphasis on yield. He also developed nano and microscale additive manufacturing for making interconnects, passive and active electronic components, LEDs, and sensors. 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 Award and 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. 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.