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Dr. Shubhra Gangopadhyay is the LaPierre Endowed Chair Professor in the Department of Electrical Engineering and Computer Science at the University of Missouri. She is the Director of Center of Nanotechnology and Nano/Micro-devices at the College of Engineering. Currently, she is serving as a Program Director at the National Science Foundation. Her areas of expertise include plasmonics for super-resolution imaging of nanostructures and sensing, single cell patterning and exocytosis, metal nanoparticle-based memory and neuromorphic devices, nanostructured dielectric films for micro/nanoelectronics and sensor applications, chemical and biological sensors using nanotechnology platforms, and nano-energetics for defense and biological applications. She has published over 160 journal papers and graduated 27 Ph.D. and 22 MS students and supervised 33 post-doctoral research associates. She is the Fellow of American Physical Society and the Fellow of the National Academy of Inventors. She co-founded three companies and collaborates with many industries and has been very successful in the development and commercialization of technology.