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Dr. Jiangdong (J.D.) Deng has a Ph.D. degree in Electrical Engineering from Virginia Polytechnic Institute and State University (Virginia Tech), as well as Ph.D., MS and BS degrees in Condensed Matter Physics from Nankai University, China. He has worked in both academic and industrial cleanrooms with extensive experience in processing and fabrication. Currently, his work is focused on developing of advanced lithographical techniques, including E-beam, soft, and nanoimprinting lithography.

Prior to joining the Center for Imaging and Masoscale Structures (CIMS) at Harvard University in 2004, he was employed by NanoOpto Corporation as a Senior Engineer and group leader in processing development, and led the development of a variety of nanograting-based optical products, such as polarizers and waveplates, using nanoimprinting technology.

From 1997 to 2001, he was a Supper Research Assistant and Project Leader in the Center for Photonics Technologies (CPT), Virginia Polytechnic Institute and State University. There, he initiated the lab's efforts in developing various novel fiber optic sensors and instruments for industrial and military applications, and supervised graduate students to work on research projects sponsored by DOE, NSF, and EPRI. During this period, he obtained his second Ph.D. degree in the field of "Development of Novel Optical Fiber Interferometric Sensors with High Sensitivity for Acoustic Emission Detection".

Between 1991 and 1997, he was a Research Associate in the Physics Department of Nankai University, where he completed his first Ph.D. degree study. He investigated the working principles, techniques and applications for Scanning Probe Microscope (SPM). He also invented techniques for fabricating nano-sized optical fiber probes, and designed a Scanning Near-field Optical Microscope (SNOM) with spatial resolution less than 100 nm.

Dr. Deng has published more than 20 journal and conference papers. His research interests include nano-physics, nanofabrication technology, optical fiber sensors, and nondestructive-based optical and electronic devices.

Dr. Deng is a member of the Optical Society of America (OSA), Institute of Electrical and Electronics Engineers (IEEE), and the International Society for Optical Engineering (SPIE).