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His research interests include microwave, millimeter-wave, and terahertz receiver systems and radars, and applications of nanotechnology at terahertz frequencies.

He has more than 300 publications in international journals and conferences and holds more than fifteen patents. He also received more than 35 NASA technical achievement and new technology invention awards. He received the Distinguished Alumni Award from the Indian Institute of Engineering Science and Technology (IIST), India in 2017. He was the recipient of the best journal paper award in 2013 by IEEE Transactions on Terahertz Science and Technology, best paper award for antenna design and applications at the European Antennas and Propagation conference (EuCAP) in 2017, and IETE Prof. S. N. Mitra Memorial Award in 2014.