

## Terahertz antennas based on Metasurface and SIW

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The lecture provides an overview of recent techniques and technologies investigated in the literature, to implement high performance on-chip antennas for millimeter-waves (mmWave) and terahertz (THz) integrated-circuit (IC) applications. This lecture provides a thorough reference source for specialist antenna designers. The technologies discussed in this lecture include metamaterial (MTM), metasurface (MTS) and substrate integrated waveguides (SIW).

**Mohammad Alibakhshikenari** was born in Mazandaran, Iran, in 1988. He received the Ph.D. degree with European Label in electronics engineering from the University of Rome “Tor Vergata”, Italy, in February 2020. He is now with the Department of Signal Theory and Communications, Universidad Carlos III de Madrid (uc3m), Spain, as a Principal Investigator of the CONEX (CONnecting EXcellence)-Plus Talent Training Program and Marie Skłodowska-Curie Actions. His research interests include electromagnetic systems, antennas and wave-propagations, metamaterials and metasurfaces, substrate integrated waveguides (SIWs), microwave components, millimeter-waves and terahertz integrated circuits. He is serving as an Associate Editor for (i) *Radio Science*, and (ii) *IET Journal of Engineering*. He also acts as a referee in several highly reputed journals and international conferences.

