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## AUTHOR'S RELEVANT PUBLICATIONS

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### Journals:

1. Kumar V., Dwivedi S. and Jain P.K., "Experimental Investigation and Design of Sectoral Waveguide  $TM_{01}$  to  $TE_{11}$  Mode Converter," accepted for publication in *Journal of Microwave Power and Electromagnetic Energy*, 2019.
2. Kumar V., Dwivedi S. and Jain P.K., "Mode Matching Analysis for Characterisation of the SWG Mode Converters," *Microwave and Optical Technology Letters*, 2019, v. 61, n. 11, pp. 2619-2627.
3. Kumar V., Dwivedi S. and Jain P.K., "Circular Sectoral Waveguide  $TM_{01}$  to  $TE_{11}$  Mode Converter," *Microwave and Optical Technology Letters*, 2019, v. 61, n. 7, pp. 1697–1701.

### Conferences

1. Kumar V., and Jain P.K., "Design and Simulation of a Coaxial to Cylindrical Waveguide Mode Converter," National Conference on Emerging Trends in Vacuum Electron Devices and Application, MTRDC Bengaluru, India, 3-5 December 2015
2. Kumar V., and Jain P.K., "Effects of Dielectrics in Coaxial Beam Rotating Antenna," National Conference on Emerging Trends in Vacuum Electronic Devices and Application, IPR Gandhinagar, India, 16-18 March 2017
3. Kumar V., and Jain P.K., "Sectoral Waveguide TEM to  $TE_{11}$  Mode Converter and its Limitations," National Conference on Emerging Trends in Vacuum Electronic Devices and Application, IIT Rorkee, India, 3-5 December 2017

### Patent

Indian Patent, Application No. 201911025593: High power microwave sectoral waveguide mode converter, Applied on 27 June, 2019. Inventors: Kumar V., Dwivedi S. and Jain P.K.