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## List of publications

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### Journal paper

1. **Soni Singh** and S. P. Singh, Water-loaded metal diagonal horn applicator for hyperthermia," *IET Microwaves, Antennas and Propagation*, vol. 9, no. 8, pp. 814–821, 2014.
2. **Soni Singh** and S. P. Singh, Theoretical and simulation studies on water-loaded metal diagonal horn antenna for hyperthermia application, *Progress In Electromagnetics Research C*, vol. 58, pp. 105–115, 2015.
3. **Soni Singh** and S. P. Singh, Investigation on improved water-loaded metal diagonal horn applicators for hyperthermia, *Journal of Electromagnetic Waves and Applications*, vol. 30, no. 14, pp. 1836–1857, 2016.
4. **Soni Singh**, B. Sahu and S. P. Singh, Conformal microstrip slot antenna with an AMC reflector for hyperthermia, *Journal of Electromagnetic Waves and Applications*, vol. 30, no. 12, pp. 1603–1619, 2016.
5. **Soni Singh**, B. Sahu and S. P. Singh, Direct-Contact Water-Loaded Metal-Dielectric Wall Diagonal Horn Applicators for Hyperthermia, *IETE Technical Review*. (**In press**).
6. **Soni Singh**, B. Sahu and S. P. Singh, Bi-layered/Tri-layered Bio-media in Direct Contact with Metal Diagonal Horn for Hyperthermia, *Wireless Personnel Communication*, (communicated)
7. **Soni Singh**, S. R. Patre, and S. P. Singh, A Study on Aperture Admittance of Rectangular Waveguide Terminated in Infinite Lossy Medium of Different Complex Permittivity Values, *International Journal of Microwave and Optical Technology*, vol. 9, no. 5, pp. 359–364, 2014.

### Conference/Symposium Publications

8. **Soni Singh**, and S. P. Singh: Water-loaded metal-dielectric wall diagonal horn antenna for hyperthermia application, *Proc. Mediterranean Microwave Symposium (MMS)*, Nov. 30– Dec. 2, 2015, Lecce, Italy.
9. **Soni Singh** and S. P. Singh, Microstrip Slot Antenna for Hyperthermia Applications, *Applied Electromagnetic Conference (AEMC 2015)*, 18–21 December 2015, Guwahati, India.
10. **Soni Singh**, S. R. Patre, and S. P. Singh, TiO<sub>2</sub> Loaded Metal-Dielectric Diagonal Horn Antenna for Hyperthermia Application, *5<sup>th</sup> Edition of the IEEE India Antenna Week (IAW-2014)*, 26–30 May 2014, Chandigarh, India.

11. **Soni Singh**, K. K. Katare, S. R. Patre, and S. P. Singh, Performance Comparison of SAR Distributions in Phantom Bio-medium Due to TiO<sub>2</sub> Loaded Metal Diagonal and Square Horn Antennas, *International Microwave and RF Conference (IMaRC 2013)*, pp. 1–4, 14–16 December 2013, New Delhi, India.
12. **Soni Singh**, K. K. Katare, and S. P. Singh, SAR Distribution in Phantom Bio-medium due to TiO<sub>2</sub> Loaded Diagonal Horn, *Proceedings 2<sup>nd</sup> Students' Conference on Engineering and System (IEEE SCES 2013)*, pp. 1–5, 12–14 April 2013, MNNIT Allahabad, India.
13. **Soni Singh**, K. K. Katare, and S. P. Singh, SAR Distribution in Phantom Bio-medium due to TiO<sub>2</sub> Loaded Diagonal Horn Applicator for Hyperthermia, *Proceedings 8<sup>th</sup> International Conference on Microwaves, Antenna, Propagation and Remote Sensing (ICMARS-2012)*, pp. 189-193, 11-15 December 2012, Jodhpur, India.