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# Publications

## Authors' Relevant Publications

### Journal Papers (Related to Ph.D. Thesis)

[1]. **Praveen Singh Rathore**, Ravi Mali, Rajkumar Jatav and Manoj Kumar Meshram, "Integrated compact UWB and frequency reconfigurable antenna with high isolation for cognitive radio," *AEU- International Journal of Electronics and Communications*, vol. 171, 154899, Nov-2023, doi: 10.1016/j.aeue.2023.154899.

[2]. **Praveen Singh Rathore**, Ravi Mali, Rajkumar Jatav and Manoj Kumar Meshram, "A multifunctional antenna with high isolation for interweave and underlay operation in cognitive radio," *Progress in Electromagnetics Research B*, vol. 108, pp.105-119, Oct -2024, doi: 10.2528/pierb24082104.

### Conference Paper (Related to Ph.D. Thesis)

[1]. **Praveen Singh Rathore**, Ravi Mali, Rajkumar Jatav and Manoj Kumar Meshram, "A dual-band notched UWB antenna with a slot and a parasitic resonator," *2023 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)*, Ahmedabad, India, pp. 1-5, 2023.

### Journal Papers (Not related to Ph.D. Thesis)

[1]. Arun Kumar Saurabh, **Praveen Singh Rathore**, and Manoj Kumar Meshram, "Compact wideband four-element MIMO antenna with high isolation," *Electronics Letters*, vol. 56, no. 3, pp. 117–119, Nov. 2019, doi: 10.1049/el.2019.2871.

[2]. Rajkumar Jatav, Ravi Mali, **Praveen Singh Rathore**, and Manoj Kumar Meshram, "A low-profile high-isolation endfire MIMO antenna based on spoof surface plasmon polaritons for X-band applications," *AEU - International Journal of Electronics and Communications*, vol. 177, 155233, Mar. 2024, doi: 10.1016/j.aeue.2024.155233.

[3]. Rajkumar Jatav, Ravi Mali, **Praveen Singh Rathore**, and Manoj Kumar Meshram, "An X-band beam-scanning reflectarray antenna stimulated using a spoof surface plasmon polaritons based low profile end fire MIMO antenna," *AEU - International Journal of Electronics and Communications*, vol. 183, 155380, Jun. 2024, doi: 10.1016/j.aeue.2024.155380.

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[5]. Ravi Mali, Rajkumar Jatav, **Praveen Singh Rathore**, and Manoj Kumar Meshram, "Vanadium oxide-based 16×16 reflectarray or FSS, reflect-transmitarray and FSS-based cross-polarized wave absorber for future 6G applications," *Physica Scripta*, 100, 065517, 2025.

## Conference papers (Not related to Ph.D. Thesis)

[1]. Rajkumar Jatav, Ravi Mali, **Praveen Singh Rathore** and Manoj Kumar Meshram, "A bow-tie shape dipole antenna based on spoof surface plasmon polariton for 5/5.2/5.8 GHz WLAN applications," *2023 IEEE Workshop on Recent Advances in Photonics (WRAP)*, Prayagraj, India, 2023, pp. 1-3, doi: 10.1109/WRAP59682.2023.10712952.

[2]. Ravi Mali, Rajkumar Jatav, **Praveen Singh Rathore**, Rupam Bharati and Manoj Kumar Meshram, "High gain wideband 16×16 reflectarray antenna for 5G and mm-wave application," *2023 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)*, Ahmedabad, India, 2023, pp. 1-5, doi: 10.1109/MAPCON58678.2023.10464177.

[3]. Ravi Mali, Rajkumar Jatav, **Praveen Singh Rathore**, Rupam Bharati, Urvashi Singh and Manoj Kumar Meshram, "Design of 1-bit high gain reflectarray antenna using dual reradiating element," 2023 *IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)*, Ahmedabad, India, 2023, pp. 1-4, doi: 10.1109/MAPCON58678.2023.10463939.

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## Achievements

- Achieved third position in the Ph.D. Student Initiative Program, *IEEE, International Microwave and RF Conference,* December 2021.