

## List of Publications

### Patents

1. **Title:** Method for Developing Miniaturized Quad-Band Frequency Selective Surface Based on Enclosed Cross Slots.

**Status: Granted**

**Patent No: 535985**

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### Journals and Conferences.

1. **Prasad, Pratyancha,** and Kumar, Akhilesh. "A Miniaturized Quintuple-Band Frequency Selective Surface Based on Enclosed Cross Slots, Journal of Electrical Engineering Vol. 74, No. 4, 2023, pp. 282-290.
2. **Prasad, Pratyancha,** Singh, Shiva Nand, and Kumar, Akhilesh. "Lightweight ultra-wideband antenna array equipped with thin frequency selective surface for high-gain applications." Journal of Electrical Engineering, vol 73(2022), No. 6, 396–403
3. **Prasad, Pratyancha,** Singh, Shiva Nand, and Kumar, Akhilesh. "A low-profile RF shielding FSS with enhanced ultrawide bandwidth range and angular stability." International Journal of RF and Microwave Computer-Aided Engineering 32.9 (2022): e23261
4. **Prasad, Pratyancha,** Singh, Shiva Nand, and Kumar, Akhilesh. "A compact high-gain key-shaped monopole antenna for RF sensitive environment, and X-Ku-band applications." Frequenz 76.5-6 (2022): 297-307.
5. **Prasad Pratyancha,** " Design of a closely spaced-bands self-diplexing antenna based on HMSIW," 2025 IEEE Wireless Antenna and Microwave Symposium (WAMS), IIITDM Kancheepuram, India, 2025. 10.1109/WAMS64402.2025.11158320
6. **Prasad Pratyancha,** Pushkar, Ravi and Kumar, Akhilesh, "A Thin Quad Band FSS Based on Enclosed Cross Slots to Foster Gain in Multiband Applications," 2024 IEEE Wireless Antenna and Microwave Symposium (WAMS), Visakhapatnam, India, 2024, pp. 1-5, doi: 10.1109/WAMS59642.2024.10527981.
7. **Prasad, Pratyancha,** Singh, Shiva Nand, and Kumar, Akhilesh, "An Optimized and Compact Bandstop FSS for C, X, Ku and K bands," 2022 IEEE Wireless Antenna and

Microwave Symposium (WAMS), 2022, pp. 1-4, doi: 10.1109/WAMS54719.2022.9848158.

8. **Prasad, Pratyancha**, Singh, Shiva Nand, and Kumar, Akhilesh. "Mono Layered Frequency Selective Surface Reflector for Ultra-Wideband Shielding." In 2021 IEEE Indian Conference on Antennas and Propagation (InCAP), pp. 696-699. IEEE, 2021.
9. **Prasad, Pratyancha**, Singh, Shiva Nand, and Kumar, Akhilesh. "A Wheel Shaped Compact UWB Antenna for GPR Applications." In 2021 6th International Conference for Convergence in Technology (I2CT), pp. 1-5. IEEE, 2021.

### **Reviewer (International Journals)**

1. Scientific Reports
2. International Journal of Electrical Engineering
3. Wireless Personal Communications
4. Analog Integrated Circuits and Signal Processing