

# List of Publications - Ahsan Sarwar Rana

## Journal Publications towards Ph.D.

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- 1 A. S. Rana, et al., "Revisiting Tantalum based Nanostructures for Efficient Harvesting of Solar Radiation in STPV Systems," **Nano Energy**, vol. 80, p. 105520. **IF=16.602.**

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  - 2 A. S. Rana, et al., "Planar Achiral Metasurfaces-Induced Anomalous Chiroptical Effect of Optical Spin Isolation," **ACS Applied Materials & Interfaces**, vol. 12, pp. 48899-48909, 2020. **IF= 8.758.**

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  - 3 A. S. Rana, et al., "Engineering the absorption spectra of thin film multilayer absorbers for enhanced color purity in CMY color filters," **Optical Materials Express**, vol. 10, pp. 268-281, 2020. **IF=3.064.**

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  - 4 A. S. Rana, et al., "Tungsten-based ultrathin absorber for visible regime," **Scientific reports**, vol. 8, pp. 1-8, 2018. **IF=3.998.**
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## Publications included in thesis

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- 1 A. S. Rana, et al., "Revisiting Tantalum based Nanostructures for Efficient Harvesting of Solar Radiation in STPV Systems," **Nano Energy**, vol. 80, p. 105520. **IF=16.602.**

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  - 5 A. S. Rana, et al., "Tungsten based optical absorber," in 2020 17th International Bhurban Conference on Applied Sciences and Technology (IBCAST), 2020, pp. 35-39.

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  - 6 A. S. Rana, et al., "Ultra-Broadband Tungsten Absorber," in 2018 Progress in Electromagnetics Research Symposium (PIERS-Toyama), 2018, pp. 297-300.
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## Other Publications not included in the thesis

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- 1 M. R. Akram, M. Q. Mehmood, T. Tauqeer, A. S. Rana, et al., "Highly efficient generation of Bessel beams with polarization insensitive metasurfaces," **Optics express**, vol. 27, pp. 9467-9480, 2019. **IF=3669.**

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  - 2 I. Kim, S. So, A. S. Rana, et al., "Thermally robust ring-shaped chromium perfect absorber of visible light," **Nanophotonics**, vol. 7, pp. 1827-1833, 2018. **IF=7.491.**
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