

**TOTAL NUMBER OF PUBLICATIONS IN LAST ONE YEAR**

**Department of Physics**

**Khushal Khan Khattak University, Karak**

S. No	Name	Designation	First Author/ Co-author	Paper Title	Journal	Page no.	Impact factor
1.	Dr Abdul Hakim Shah	Assistant Professor	Co-Author	<u>Broadband infrared emissivity of Ag@ SiO<sub>2</sub> nanoparticles due to coupled transverse EM modes</u> <a href="https://doi.org/10.1016/j.ceramint.2022.04.072">https://doi.org/10.1016/j.ceramint.2022.04.072</a>	Ceramics International	21293-21298	5.2
2.	Dr Abdul Hakim Shah	Assistant Professor	Co-Author	<u>Fused Deposition Modeling and Characterization of Heat Shape Memory Poly (lactic) Acid-Based Porous Vascular Scaffold</u> <a href="https://doi.org/10.3390/polym15020390">https://doi.org/10.3390/polym15020390</a>	Polymers	390	5.0
3	Dr Abdul Hakim Shah	Assistant Professor	Co-Author	<u>Optimization of Bead Geometry during Tungsten Inert Gas Welding Using Grey Relational and Finite Element Analysis</u> <a href="https://doi.org/10.3390/ma16103732">https://doi.org/10.3390/ma16103732</a>	Materials	3732	3.4
4	Dr Abdul Hakim Shah	Assistant Professor	Co-Author	<u>A first-principles study of electronic, optical and thermoelectric properties of TlXF<sub>3</sub> (X: Zn, Sr) perovskite crystal structure</u> 10.1088/1402-4896/acc6fa	Physica Scripta	055907	2.9
5	Dr Abdul Hakim Shah	Assistant Professor	Co-Author	Dual-band absorption due to simultaneous excitation of TE and TM modes in ITO-ES metamaterial for IR stealth technology <a href="https://doi.org/10.1016/j.optcom.2023.129875">https://doi.org/10.1016/j.optcom.2023.129875</a>	Optics Communications Country: Netherland ISSN:0030-4018	Volume 549, 15 129875	2.4
6	Dr. Fida Rehman	Assistant Professor	Co-Author	Dual-band absorption due to simultaneous excitation of TE and TM modes in ITO-ES metamaterial for IR stealth technology <a href="https://doi.org/10.1016/j.optcom.2023.129875">https://doi.org/10.1016/j.optcom.2023.129875</a>	Optics Communications Country: Netherland ISSN:0030-4018	Volume 549, 15 129875	2.4
7	Dr. Fida Rehman	Assistant Professor	Co-Author	Enhanced Thermal Stability and Synergistic Effects of Magnesium and Iron Borate Composites against Pathogenic Bacteria <a href="https://doi.org/10.1155/2022/3605054">https://doi.org/10.1155/2022/3605054</a>	BioMed Research International Country: United States ISSN : 2314-6141,2314-6133	Vol. 2022 Page 1-7	3.2

8	Dr. Fida Rehman	Assistant Professor	Co-Author	Evaluation of structural, magnetic and concentration dependent texture variations of electrodeposited cobalt nanowires, <a href="https://doi.org/10.1016/j.mssp.2022.107042">https://doi.org/10.1016/j.mssp.2022.107042</a>	<i>Materials Science in Semiconductor Processing</i> Country : United Kingdom ISSN: 1369-8001	152 107042	3.9
9	Dr. Fida Rehman	Assistant Professor	Co-Author	A first principles study of a van der Waals heterostructure based on MS <sub>2</sub> (M = Mo, W) and Janus CrSSe monolayers DOI: 10.1039/d2na00298a	<i>Nanoscale Advances</i> Country: United Kingdom ISSN : 2516-0230	04 3557-3565	5.5
10	Dr. Fida Rehman	Assistant Professor	Co-Author	Broadband Infrared Emissivity of Ag@SiO <sub>2</sub> Nanoparticles Due to Coupled Transverse EM modes <a href="https://doi.org/10.1016/j.ceramint.2022.04.072">https://doi.org/10.1016/j.ceramint.2022.04.072</a>	<i>Ceramics International</i> Country: United Kingdom ISSN : 0272-8842	48 ,15 21293-21298	5.53
11	Dr. Fida Rehman	Assistant Professor	First Author	Tuning the optical properties through bandgap engineering in Si- doped YAuPb: ab initio study,	Journal of Computational Electronics Country: Netherlands ISSN: 1569-8025	21 119-127	1.9
12	Dr. Fida Rehman	Assistant Professor	Co-Author	The antibacterial and antioxidant efficacy and neutron sensing potency of 10 B enriched hexagonal boron nitride nanoparticles <a href="https://doi.org/10.1016/j.mssp.2021.106419">https://doi.org/10.1016/j.mssp.2021.106419</a>	Materials Science in Semiconductor Processing Country: United Kingdom ISSN :1369-8001	141 106419	4.4
13	Dr. Atta ur Rahman	Assistant Professor	First Author	Broadband infrared emissivity of Ag@ SiO <sub>2</sub> nanoparticles due to coupled transverse EM modes	Ceramics International United Kingdom	21293-21298	5.2
14	Dr. Atta ur Rahman	Assistant Professor	Co-Author	The Enhancement in Optical Characteristics of Nano-Antenna Arrays through Addition of Inverse Active Core–Shell Nanoparticles in the Array Element	Electronics Switzerland	2987	2.9
15	Dr. Atta ur Rahman	Assistant Professor	First Author	Dual-band absorption due to simultaneous excitation of TE and TM modes in ITO-ES metamaterial for IR stealth technology	Optics Communications	129875	2.4