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Picture

Name	Dr. Sunila		
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Department	Physics		
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Qualification

Year	Degree/Certificate	Name of the Institute/ University	Field of study
	Post Doctorate		
	PhD	University of Science And Technology of China	Computational techniques in condensed matter physics
	MS/ Mphil	BUITEMS Quetta	Physics (Renewable energy)
	Graduation	University of Balochistan	Physics

Publications in HEC Recognized journals

S. No	Title of Paper	Name of Journal	National/ International	Publication date
1	"Beryllium and Magnesium Metal Clusters: New Globally Stable Structures and G 0 W 0 Calculations."	The Journal of Physical Chemistry A 125, no. 7 (2021): 1424-1435. (**W-Category, IF: 2.6**) doi.org/10.1021/acs.jpca.0c08960	International	2021

2	"Fullerene, Carbon Nanotubes and Graphene: A comprehensive review."	Karbala International Journal of Modern Science 9, no. 3 (2023): 1. (**X-Category, IF: 1.67**) doi.org/10.33640/2405-609X.3301	International	2023
3	Optoelectronic properties of MoS2-ReS2 and ReS2-MoS2 heterostructures	" Physica B: Condensed Matter 577 (2020): 411809. (**X-Category, IF: 3.0**) doi.org/10.1016/j.physb.2019.411809	International	2020
4	Optimally configured gated recurrent unit using hyperband for the long-term forecasting of photovoltaic plant	" Renewable Energy Focus 39 (2021): 49-58. (**IF**: **0.9**) doi.org/10.1016/j.ref.2021.07.002	International	2021
5	Biosynthesis of silver nanoparticles for biomedical applications: A mini review."	Inorganic Chemistry Communications (2022): 109980., (**X-Category, IF:3.4**) doi.org/10.1016/j.inoche.2022.109980	International	2022
6	Effects of the Hubbard potential on the NMR shielding and optoelectronic properties of BiMnVO5 compound."	Scientific Reports 13, no. 1 (2023): 5816. (**W-Category, IF: 5.0**) doi.org/10.1038/s41598-023-33034-0	International	2023
7	Technological Evolution of Image Sensing Designed by Nanostructured Materials.	ACS Materials Letters, 5, pp.1027-1060. (**W-Category, IF 11.1**) doi.org/10.1021/acsmaterialslett.2c01011	International	2023
8	Improving the efficiency of dye-sensitized solar cells based on rare-earth metal modified bismuth ferrites."	Scientific Reports 13, no. 1 (2023): 3123. (**W-Category, IF:5.0**) doi.org/10.1038/s41598-023-30000-8	International	2023
9	Basic Concepts, Advances and Emerging Applications of Nanophotonics.	Arabian Journal of Chemistry (2023): 105040. (**W-Category, IF: 6.2**) doi.org/10.1016/j.arabjc.2023.105040	International	2023

10	Structural and optical properties of vacancy-ordered double halide perovskites, Cs2TiI6 films."	Materials Science and Engineering: B 296 (2023): 116645. (**W-Category, IF:3.4**) doi.org/10.1016/j.mseb.2023.116645	International	2023

Paper Presented

S. No	Title of Paper	Name of Conference	National/ International	Date
1	Stability and binding energy study of Zinc octamer cluster. University China.	FMAT 2019, Nanjing china	International	October 28-30, 2019.
2	Efficiency Comparison of Polycrystalline and Amorphous Solar Cells in the Climate of Quetta	Second National Conference Allama Iqbal Open University	National	7th April 2014
3	Efficiency Comparison of Solar Thermal Collectors in Quetta Climate",	Allama Iqbal Open University Islamabad Second National Conference	National	7th April 2014
4	Efficiency analysis of polycrystalline and amorphous solar cells in cloudy sky conditions of Quetta,	2nd Global Multidisciplinary e-Conference 2014,	International	10th Novembe r Proceedin gs 2014

Books Authored/ Edited

S. No	Name of book	Publisher	ISBN

Work Experience

S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
1	9th July 2014	Present	BUITEMS Quetta	Assistant Professor Physics (BPS-19)
	1st Jan 2013	8th July 2014	BUITEMS Quetta	Lecturer (BPS-18)
	26th June, 2008	31st Dec, 2012	FG Girls Degree College Quetta Cantt.	Lecturer Physics, (BPS-17)

Area of specialization	Condensed matter Physics
Research Interest	Computational tools and theoretical studies in physics, Renewable energy, quantum chemistry, Density functional theory and application in multidisciplinary fields.
Future Research Plans	Computational tool in physics and solar energy, theoretical and computational studies of materials.
HEC Approved supervisor	Yes
If Yes, provide HEC URL	https://www.hec.gov.pk/english/scholarshipsgrants/ASA/Pages/APS-EPORTAL.aspx
Research grants/ Projects	

Additional Information