

Sadiq Shahriyar Nishat

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Improved luminescence and photocatalytic properties of Sm ³⁺ -doped ZnO nanoparticles via modified sol-gel route: A unified experimental and DFT+U approach. <i>Journal of Rare Earths</i> , 2023, 41, 550-560.	2.5	13
2	Enhanced dielectric stability and coercivity of band gap tuned Ba-Al Co-doped bismuth ferrite: An experimental and DFT+U investigation. <i>Ceramics International</i> , 2022, 48, 3404-3416.	2.3	12
3	Supervised Machine Learning-Aided SCAPS-Based Quantitative Analysis for the Discovery of Optimum Bromine Doping in Methylammonium Tin-Based Perovskite (MASn ₃ Br _x). <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 502-516.	4.0	19
4	Machine Learning Approach to Delineate the Impact of Material Properties on Solar Cell Device Physics. <i>ACS Omega</i> , 2022, 7, 22263-22278.	1.6	11
5	A DFT+U study on the structural, electronic, magnetic, and optical properties of Fe and Co co-doped CuO. <i>Materials Today Communications</i> , 2022, 32, 103923.	0.9	4
6	Enhanced photocatalytic activity of Ho ³⁺ doped ZnO NPs synthesized by modified sol-gel method: An experimental and theoretical investigation. <i>Journal of Alloys and Compounds</i> , 2021, 856, 158217.	2.8	33
7	Investigation of CsSn _{0.5} Ge _{0.5} I ₃ -on-Si Tandem Solar Device Utilizing SCAPS Simulation. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 618-625.	1.6	47
8	Investigation of non-Pb all-perovskite 4-T mechanically stacked and 2-T monolithic tandem solar devices utilizing SCAPS simulation. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	23
9	Numerical simulation studies of Cs ₃ Bi ₂ I ₉ perovskite solar device with optimal selection of electron and hole transport layers. <i>Optik</i> , 2021, 231, 166417.	1.4	27
10	Effects of transition metal (Fe, Co & Ni) doping on structural, electronic and optical properties of CuO: DFT+U study. <i>Chemical Physics</i> , 2021, 545, 111160.	0.9	21
11	Synthesis, characterization and visible light-responsive photocatalysis properties of Ce doped CuO nanoparticles: A combined experimental and DFT+U study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 617, 126386.	2.3	45
12	Performance Analysis of Perovskite Solar Cells Using DFT-Extracted Parameters of Metal-Doped TiO ₂ Electron Transport Layer. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13158-13166.	1.5	20
13	Structural, elastic, vibrational, electronic and optical properties of SmFeO ₃ using density functional theory. <i>Physica B: Condensed Matter</i> , 2021, 615, 413061.	1.3	14
14	A SCAPS simulation investigation of non-toxic MgGe ₃ -on-Si tandem solar device utilizing monolithically integrated (2-T) and mechanically stacked (4-T) configurations. <i>Solar Energy</i> , 2021, 225, 471-485.	2.9	33
15	A DFT+U look into experimentally synthesized monoclinic scheelite BiVO ₄ . <i>Journal of Applied Physics</i> , 2021, 130, 235107.	1.1	7
16	Ab initio study of oxygen evolution reaction and hydrogen evolution reaction via water splitting on pure and nitrogen-doped graphene surface. <i>Materials Today Communications</i> , 2020, 25, 101602.	0.9	6
17	Exploring solar cell performance of inorganic Cs ₂ TiBr ₆ halide double perovskite: A numerical study. <i>Superlattices and Microstructures</i> , 2020, 146, 106652.	1.4	48
18	The Density Functional Theory (DFT) And DFT+U Study of The Effect of The on-Site Coulomb Repulsion Parameter U on The Structural and Magnetic Properties of CeO ₂ Nanoparticles. <i>Bangladesh Journal of Physics</i> , 2020, 27, 43-58.	0.1	1

#	ARTICLE	IF	CITATIONS
19	Simulation studies to quantify the impacts of point defects: An investigation of Cs ₂ AgBiBr ₆ perovskite solar devices utilizing ZnO and Cu ₂ O as the charge transport layers. Computational Materials Science, 2020, 184, 109865.	1.4	33
20	Effect of Al doping on the structural and optical properties of CuO nanoparticles prepared by solution combustion method: Experiment and DFT investigation. Journal of Physics and Chemistry of Solids, 2020, 147, 109646.	1.9	39
21	Influence of Device Parameters on Performance of Ultra-Scaled Graphene Nanoribbon Field Effect Transistor. ECS Journal of Solid State Science and Technology, 2020, 9, 121006.	0.9	1