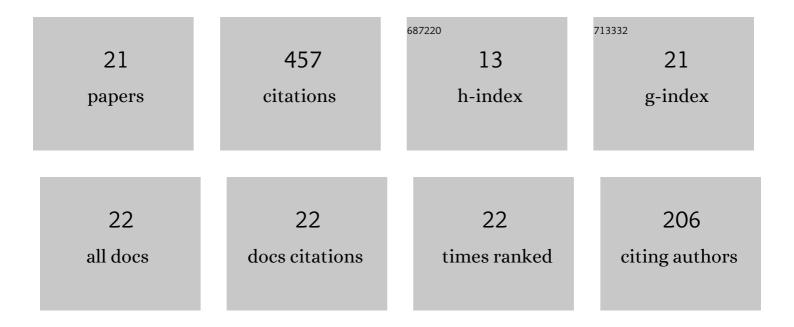
## Sadiq Shahriyar Nishat

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Improved luminescence and photocatalytic properties of Sm3+-doped ZnO nanoparticles via modified sol–gel route: A unified experimental and DFT+U approach. Journal of Rare Earths, 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. Ceramics International, 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 (MASnI <sub>3–<i>x</i></sub> Br <i><sub>x</sub></i> ). ACS Applied Materials & Interfaces, 2022, 14, 502-516.	4.0	19
4	Machine Learning Approach to Delineate the Impact of Material Properties on Solar Cell Device Physics. ACS Omega, 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. Materials Today Communications, 2022, 32, 103923.	0.9	4
6	Enhanced photocatalytic activity of Ho3+ doped ZnO NPs synthesized by modified sol-gel method: An experimental and theoretical investigation. Journal of Alloys and Compounds, 2021, 856, 158217.	2.8	33
7	Investigation of CsSn <sub>0.5</sub> Ge <sub>0.5</sub> I <sub>3</sub> -on-Si Tandem Solar Device Utilizing SCAPS Simulation. IEEE Transactions on Electron Devices, 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. SN Applied Sciences, 2021, 3, 1.	1.5	23
9	Numerical simulation studies of Cs3Bi2I9 perovskite solar device with optimal selection of electron and hole transport layers. Optik, 2021, 231, 166417.	1.4	27
10	Effects of transition metal (Fe, Co & Ni) doping on structural, electronic and optical properties of CuO: DFTÂ+ÂU study. Chemical Physics, 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. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 617, 126386.	2.3	45
12	Performance Analysis of Perovskite Solar Cells Using DFT-Extracted Parameters of Metal-Doped TiO <sub>2</sub> Electron Transport Layer. Journal of Physical Chemistry C, 2021, 125, 13158-13166.	1.5	20
13	Structural, elastic, vibrational, electronic and optical properties of SmFeO3 using density functional theory. Physica B: Condensed Matter, 2021, 615, 413061.	1.3	14
14	A SCAPS simulation investigation of non-toxic MAGeI3-on-Si tandem solar device utilizing monolithically integrated (2-T) and mechanically stacked (4-T) configurations. Solar Energy, 2021, 225, 471-485.	2.9	33
15	A DFT+U look into experimentally synthesized monoclinic scheelite BiVO <sub>4</sub> . Journal of Applied Physics, 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. Materials Today Communications, 2020, 25, 101602.	0.9	6
17	Exploring solar cell performance of inorganic Cs2TiBr6 halide double perovskite: A numerical study. Superlattices and Microstructures, 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 <sub>2</sub> Nanoparticles. Bangladesh Journal of Physics, 2020, 27, 43-58.	0.1	1

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1	19	Simulation studies to quantify the impacts of point defects: An investigation of Cs2AgBiBr6 perovskite solar devices utilizing ZnO and Cu2O as the charge transport layers. Computational Materials Science, 2020, 184, 109865.	1.4	33
2	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
2	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