

# Majibul Haque Babu

## List of Publications by Year in descending order

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15  
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#	ARTICLE	IF	CITATIONS
1	Cubic Perovskite $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ : A Damage Tolerant, Machinable, and Thermal barrier coating material. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2018, 74, 71-81.	1.5	33
2	Pressure induced semiconductor to metal phase transition in cubic $\text{CsSnBr}_3$ perovskite. <i>AIP Advances</i> , 2021, 11, .	1.3	29
3	p to n-type transition with wide blue shift optical band gap of spray synthesized Cd doped CuO thin films for optoelectronic device applications. <i>Surfaces and Interfaces</i> , 2020, 19, 100459.	3.0	27
4	Influence of $\text{Fe}^{3+}$ ions doping on $\text{TiO}_2$ thin films: Defect generation, d-d transition and band gap tuning for optoelectronic device applications. <i>Physica B: Condensed Matter</i> , 2021, 604, 412618.	2.7	23
5	Influence of $\text{Fe}^{2+}/\text{Fe}^{3+}$ ions in tuning the optical band gap of $\text{SnO}_2$ nanoparticles synthesized by TSP method: Surface morphology, structural and optical studies. <i>Materials Science in Semiconductor Processing</i> , 2019, 89, 223-233.	4.0	22
6	Bond length controlling opto-structural properties of Mn doped CuO thin films: An experimental and theoretical study. <i>Materials Science in Semiconductor Processing</i> , 2021, 129, 105798.	4.0	15
7	Prediction of double transition metal ( $\text{Cr}_{1-x}\text{Zr}_x$ ) $\text{Al}_2\text{MAX}$ phases as thermal barrier coatings: Insight from density functional theory. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26770.	2.0	15
8	Texture coefficient and band gap tailoring of Fe-doped $\text{SnO}_2$ nanoparticles via thermal spray pyrolysis. <i>Rare Metals</i> , 2022, 41, 1332-1341.	7.1	13
9	Optical constants and dispersion energy parameters of Zn-doped $\text{TiO}_2$ thin films prepared by spray pyrolysis technique. <i>Surfaces and Interfaces</i> , 2020, 21, 100725.	3.0	12
10	Prediction of a new Sn-based MAX phases for nuclear industry applications: DFT calculations. <i>Materials Today Communications</i> , 2021, 27, 102233.	1.9	12
11	Effect of Co doping in tailoring the crystallite size, surface morphology and optical band gap of CuO thin films prepared via thermal spray pyrolysis. <i>Surfaces and Interfaces</i> , 2021, 25, 101269.	3.0	12
12	Gamma irradiated nanostructured $\text{NiFe}_2\text{O}_4$ : Effect of $\hat{\gamma}$ -photon on morphological, structural, optical, and magnetic properties. <i>AIP Advances</i> , 2021, 11, .	1.3	10
13	Properties of $\text{RbHgF}_3$ fluoro-perovskite under growing hydrostatic pressure from first-principles calculations. <i>AIP Advances</i> , 2021, 11, .	1.3	9
14	Low temperature synthesis of $\hat{\Gamma}_1$ - and $\hat{\Gamma}_2$ -phase $\text{Bi}_2\text{O}_3$ thin film via B doping: tailoring optical band gap and n- to p-type $\text{Bi}_2\text{O}_3$ . <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 15670-15682.	2.2	8
15	Electronic structure transition of cubic $\text{CsSnCl}_3$ under pressure: effect of rPBE and PBEsol functionals and GW method. <i>Heliyon</i> , 2021, 7, e07796.	3.2	7