

Majibul Haque Babu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Texture coefficient and band gap tailoring of Fe-doped SnO ₂ nanoparticles via thermal spray pyrolysis. <i>Rare Metals</i> , 2022, 41, 1332-1341.	7.1	13
2	Influence of Fe ³⁺ ions doping on 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
3	Pressure induced semiconductor to metal phase transition in cubic CsSnBr ₃ perovskite. <i>AIP Advances</i> , 2021, 11, .	1.3	29
4	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
5	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
6	Gamma irradiated nanostructured NiFe ₂ O ₄ : Effect of $\hat{\Gamma}^3$ -photon on morphological, structural, optical, and magnetic properties. <i>AIP Advances</i> , 2021, 11, .	1.3	10
7	Prediction of double transition metal ($\langle \text{Cr}_{1-x}\text{Zr}_x \rangle_{\text{AIC}} \text{MAX}$) phases as thermal barrier coatings: Insight from density functional theory. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26770.	2.0	15
8	Electronic structure transition of cubic CsSnCl ₃ under pressure: effect of rPBE and PBEsol functionals and GW method. <i>Heliyon</i> , 2021, 7, e07796.	3.2	7
9	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
10	Properties of RbHgF ₃ fluoro-perovskite under growing hydrostatic pressure from first-principles calculations. <i>AIP Advances</i> , 2021, 11, .	1.3	9
11	Optical constants and dispersion energy parameters of Zn-doped TiO ₂ thin films prepared by spray pyrolysis technique. <i>Surfaces and Interfaces</i> , 2020, 21, 100725.	3.0	12
12	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
13	Low temperature synthesis of $\hat{\Gamma}^1$ - and $\hat{\Gamma}^2$ -phase Bi ₂ O ₃ thin film via B doping: tailoring optical band gap and n- to p-type Bi ₂ O ₃ . <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 15670-15682.	2.2	8
14	Influence of Fe ²⁺ /Fe ³⁺ ions in tuning the optical band gap of 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
15	Cubic Perovskite Pb(Mg _{1/3} Nb _{2/3})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