Md Imteyaz Ahmad

List of Publications by Year in Descending Order

33 papers	465 citations	10 h-index	21 g-index
36 ext. papers	594 ext. citations	4.4 avg, IF	4.41 L-index

#	Paper	IF	Citations
33	Role of defects in the electronic properties of Al doped ZnO films deposited by spray pyrolysis. *Journal of Materials Science*, **2022**, 57, 7877	4.3	2
32	A review of stability and progress in tin halide perovskite solar cell. *Solar Energy*, **2021**, 216, 26-47	6.8	25
31	Low-temperature synthesis of five component single phase high entropy oxide. *Ceramics International*, **2021**, 47, 22225-22225	5.1	2
30	Homogeneous and polymorphic transformations to ordered intermetallics in nanostructured Au□Cu multilayer thin films. *Journal of Materials Science*, **2021**, 56, 16113-16133	4.3	
29	High entropy phase evolution and fine structure of five component oxide (Mg, Co, Ni, Cu, Zn)O by citrate gel method. *Materials Chemistry and Physics*, **2021**, 259, 124014	4.4	7
28	Chelating agent and substrate effect on hydrothermal growth of Yb3+/Er3+ doped NaYf4 film. *Processing and Application of Ceramics*, **2021**, 15, 69-78	1.4	2
27	Investigation on the site preferences & magnetic properties of Co-doped SrAl4Fe8O19 hexaferrite. *Materials Chemistry and Physics*, **2021**, 259, 124196	4.4	0
26	Nucleation and growth mechanism of wurtzite copper indium disulfide nanoparticles during solution processing. *Ceramics International*, **2021**, 47, 32086-32096	5.1	0
25	Role of additives SnX2 (X□=□F, Cl) and anti-solvents on the microstructure of PV absorber FASnI3 films. *Materials Letters*, **2020**, 275, 128071	3.3	2
24	Phase separation in wurtzite CuInxGa1□xS2 nanoparticles. *Journal of Materials Science*, **2020**, 55, 11841-11855	4.5	3
23	Role of defects and microstructure on the electrical properties of solution-processed Al-doped ZnO transparent conducting films. *Applied Physics A: Materials Science and Processing*, **2020**, 126, 1	2.6	3
22	Flash assisted synthesis and densification of five component high entropy oxide (Mg, Co, Cu, Ni, Zn)O at 350 °C in 3 min. *Journal of the European Ceramic Society*, **2020**, 40, 3358-3362	6	24
21	Low thermal budget processing of CdS thin films. *Materials Letters*, **2020**, 280, 128560	3.3	2
20	Compact Titania Films by Spray Pyrolysis for Application as ETL in Perovskite Solar Cells. *Journal of Electronic Materials*, **2020**, 49, 7159-7167	1.9	2
19	Synthesis and characterization of zirconia toughened alumina ceramics prepared by co-precipitation method. *Ceramics International*, **2019**, 45, 16054-16061	5.1	17
18	Cu-Ba0.7Sr0.3TiO3 composites for electronic packaging. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 9022-9028	2.1	
17	Chemical free synthesis of graphene oxide in the preparation of reduced graphene oxide-zinc oxide nanocomposite with improved photocatalytic properties. *Applied Surface Science*, **2018**, 451, 67-75	6.7	50

List of Publications

16	Thermal engineering of FAPbI perovskite material via radiative thermal annealing and in situ XRD. *Nature Communications*, **2017**, 8, 14075	17.4	110
15	The formation mechanism for printed silver-contacts for silicon solar cells. *Nature Communications*, **2016**, 7, 11143	17.4	73
14	Rapid thermal processing chamber for in-situ x-ray diffraction. *Review of Scientific Instruments*, **2015**, 86, 013902	1.7	11
13	Crystal growth and mechanical characterization of ZrMo2O8. *Journal of Crystal Growth*, **2014**, 404, 100-106	1.6	2
12	Hydration of ZrW2O8 nanopowders under ambient conditions. *Materials Chemistry and Physics*, **2014**, 145, 403-406	4.4	2
11	Crystal growth of ZrW2O8 and its optical and mechanical characterization. *Journal of Crystal Growth*, **2012**, 343, 115-121	1.6	5
10	Structure evolution and dielectric behavior of polystyrene-capped barium titanate nanoparticles. *Journal of Materials Chemistry*, **2012**,		10
9	Hydrothermal Synthesis of ZrW2−xMoxO8 (x=0.0–1.91) and its α–β Transformation. *Journal of the American Ceramic Society*, **2011**, 94, 2619-2624	3.8	8
8	Synthesis, processing, and characterization of negative thermal expansion zirconium tungstate nanoparticles with different morphologies. *Materials Chemistry and Physics*, **2011**, 131, 12-17	4.4	11
7	High temperature stability of nanocrystalline anatase powders prepared by chemical vapour synthesis under varying process parameters. *Applied Surface Science*, **2011**, 257, 6761-6767	6.7	3
6	Structure, thermal stability, and optical properties of boron modified nanocrystalline anatase prepared by chemical vapor synthesis. *Journal of Applied Physics*, **2009**, 105, 113526	2.5	1
5	Oxidative electrodeposition of nanocrystalline zinc oxide powders. *Journal Physics D: Applied Physics*, **2009**, 42, 115305	3	3
4	Size effect on the lattice parameters of nanocrystalline anatase. *Applied Physics Letters*, **2009**, 95, 191906	3.4	58
3	Effect of gas flow rates on the anatase-rutile transformation temperature of nanocrystalline TiO2 synthesised by chemical vapour synthesis. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 5572-7	1.3	3
2	Effect of process parameters on the chemical vapour synthesis of nanocrystalline titania. *Journal Physics D: Applied Physics*, **2008**, 41, 155313	3	8
1	Thin film luminescence of ZnGa2O4:Mn deposited by PLD. *Scripta Materialia*, **2006**, 54, 237-240	5.6	14