Md Imteyaz Ahmad

List of Publications by Year
in descending order

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36 papers	735 citations	686830 13 h-index	525886 27 g-index
36 all docs	36 docs citations	36 times ranked	1329 citing authors

#	Article	IF	Citations
1	Thermal engineering of FAPbI3 perovskite material via radiative thermal annealing and in situ XRD. Nature Communications, 2017, 8, 14075.	5.8	149
2	The formation mechanism for printed silver-contacts for silicon solar cells. Nature Communications, 2016, 7, 11143.	5.8	106
3	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.	3.1	72
4	A review of stability and progress in tin halide perovskite solar cell. Solar Energy, 2021, 216, 26-47.	2.9	67
5	Size effect on the lattice parameters of nanocrystalline anatase. Applied Physics Letters, 2009, 95, 191906.	1.5	66
6	Flash assisted synthesis and densification of five component high entropy oxide (Mg, Co, Cu, Ni, Zn)O at 350 Â°C in 3 min. Journal of the European Ceramic Society, 2020, 40, 3358-3362.	2.8	48
7	Synthesis and characterization of zirconia toughened alumina ceramics prepared by co-precipitation method. Ceramics International, 2019, 45, 16054-16061.	2.3	26
8	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.	2.0	18
9	Structure evolution and dielectric behavior of polystyrene-capped barium titanate nanoparticles. Journal of Materials Chemistry, 2012, , .	6.7	17
10	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.	1.1	16
11	Rapid thermal processing chamber for in-situ x-ray diffraction. Review of Scientific Instruments, 2015, 86, 013902.	0.6	15
12	Low-temperature synthesis of five component single phase high entropy oxide. Ceramics International, 2021, 47, 22225-22228.	2.3	15
13	Thin film luminescence of ZnGa2O4:Mn deposited by PLD. Scripta Materialia, 2006, 54, 237-240.	2.6	14
14	Hydrothermal Synthesis of ZrW2â^'Î´MoÎ´O8 (Î´=0-0.91) and its Î±â†'Î² Transformation. Journal of the American Ceramic Society, 2011, 94, 2619-2624.	1.9	12
15	Synthesis, processing, and characterization of negative thermal expansion zirconium tungstate nanoparticles with different morphologies. Materials Chemistry and Physics, 2011, 131, 12-17.	2.0	12
16	Effect of process parameters on the chemical vapour synthesis of nanocrystalline titania. Journal Physics D: Applied Physics, 2008, 41, 155313.	1.3	10
17	Crystal growth of ZrW2O8 and its optical and mechanical characterization. Journal of Crystal Growth, 2012, 343, 115-121.	0.7	7
18	Homogeneous and polymorphic transformations to ordered intermetallics in nanostructured Auâ€“Cu multilayer thin films. Journal of Materials Science, 2021, 56, 16113-16133.	1.7	7

#	Article	IF	Citations
19	Role of defects in the electronic properties of Al doped ZnO films deposited by spray pyrolysis. Journal of Materials Science, 2022, 57, 7877-7895.	1.7	7
20	Phase separation in wurtzite CuInxGa1â^'xS2 nanoparticles. Journal of Materials Science, 2020, 55, 11841-11855.	1.7	6
21	Low thermal budget processing of CdS thin films. Materials Letters, 2020, 280, 128560.	1.3	5
22	Investigation on the site preferences & magnetic properties of Co-doped SrAl4Fe8O19 hexaferrite. Materials Chemistry and Physics, 2021, 259, 124196.	2.0	5
23	Oxidative electrodeposition of nanocrystalline zinc oxide powders. Journal Physics D: Applied Physics, 2009, 42, 115305.	1.3	4
24	Effect of Gas Flow Rates on the Anataseâ€“Rutile Transformation Temperature of Nanocrystalline TiO2 Synthesised by Chemical Vapour Synthesis. Journal of Nanoscience and Nanotechnology, 2009, 9, 5572-5577.	0.9	4
25	Crystal growth and mechanical characterization of ZrMo2O8. Journal of Crystal Growth, 2014, 404, 100-106.	0.7	4
26	Chelating agent and substrate effect on hydrothermal growth of Yb3+/Er3+ doped NaYf4 film. Processing and Application of Ceramics, 2021, 15, 69-78.	0.4	4
27	Nucleation and growth mechanism of wurtzite copper indium disulfide nanoparticles during solution processing. Ceramics International, 2021, 47, 32086-32096.	2.3	4
28	High temperature stability of nanocrystalline anatase powders prepared by chemical vapour synthesis under varying process parameters. Applied Surface Science, 2011, 257, 6761-6767.	3.1	3
29	Compact Titania Films by Spray Pyrolysis for Application as ETL in Perovskite Solar Cells. Journal of Electronic Materials, 2020, 49, 7159-7167.	1.0	3
30	Structure, thermal stability, and optical properties of boron modified nanocrystalline anatase prepared by chemical vapor synthesis. Journal of Applied Physics, 2009, 105, 113526.	1.1	2
31	Hydration of ZrW2O8 nanopowders under ambient conditions. Materials Chemistry and Physics, 2014, 145, 403-406.	2.0	2
32	Role of additives SnX2 (XÂ=ÂF, Cl) and anti-solvents on the microstructure of PV absorber FASnI3 films. Materials Letters, 2020, 275, 128071.	1.3	2
33	Effect of process parameters on the chemical vapour synthesis of nanocrystalline titania. Journal Physics D: Applied Physics, 2009, 42, 079801-079801.	1.3	1
34	Cu-Ba0.7Sr0.3TiO3 composites for electronic packaging. Journal of Materials Science: Materials in Electronics, 2019, 30, 9022-9028.	1.1	1
35	In-situ nitrogen doping and boron modification of nanocrystalline titania powders by chemical vapour synthesis. Processing and Application of Ceramics, 2009, 3, 113-117.	0.4	1
36	Front contact metallization of Si solar cells: Insights from in-situ X-ray diffraction. , 2015, , .		0