

Md Imteyaz Ahmad

List of Publications by Citations

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33
papers

465
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h-index

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36
ext. papers

594
ext. citations

4.4
avg, IF

4.41
L-index

#	Paper	IF	Citations
33	Thermal engineering of FAPbI perovskite material via radiative thermal annealing and in situ XRD. <i>Nature Communications</i> , 2017 , 8, 14075	17.4	110
32	The formation mechanism for printed silver-contacts for silicon solar cells. <i>Nature Communications</i> , 2016 , 7, 11143	17.4	73
31	Size effect on the lattice parameters of nanocrystalline anatase. <i>Applied Physics Letters</i> , 2009 , 95, 191906	6.4	58
30	Chemical free synthesis of graphene oxide in the preparation of reduced graphene oxide-zinc oxide nanocomposite with improved photocatalytic properties. <i>Applied Surface Science</i> , 2018 , 451, 67-75	6.7	50
29	A review of stability and progress in tin halide perovskite solar cell. <i>Solar Energy</i> , 2021 , 216, 26-47	6.8	25
28	Flash assisted synthesis and densification of five component high entropy oxide (Mg, Co, Cu, Ni, Zn)O at 350 °C in 3 min. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3358-3362	6	24
27	Synthesis and characterization of zirconia toughened alumina ceramics prepared by co-precipitation method. <i>Ceramics International</i> , 2019 , 45, 16054-16061	5.1	17
26	Thin film luminescence of ZnGa ₂ O ₄ :Mn deposited by PLD. <i>Scripta Materialia</i> , 2006 , 54, 237-240	5.6	14
25	Rapid thermal processing chamber for in-situ x-ray diffraction. <i>Review of Scientific Instruments</i> , 2015 , 86, 013902	1.7	11
24	Synthesis, processing, and characterization of negative thermal expansion zirconium tungstate nanoparticles with different morphologies. <i>Materials Chemistry and Physics</i> , 2011 , 131, 12-17	4.4	11
23	Structure evolution and dielectric behavior of polystyrene-capped barium titanate nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 ,		10
22	Hydrothermal Synthesis of ZrW ₂ MoO ₈ (P63/m) and its R3C Transformation. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2619-2624	3.8	8
21	Effect of process parameters on the chemical vapour synthesis of nanocrystalline titania. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 155313	3	8
20	High entropy phase evolution and fine structure of five component oxide (Mg, Co, Ni, Cu, Zn)O by citrate gel method. <i>Materials Chemistry and Physics</i> , 2021 , 259, 124014	4.4	7
19	Crystal growth of ZrW ₂ O ₈ and its optical and mechanical characterization. <i>Journal of Crystal Growth</i> , 2012 , 343, 115-121	1.6	5
18	Phase separation in wurtzite CuIn _x Ga _{1-x} S ₂ nanoparticles. <i>Journal of Materials Science</i> , 2020 , 55, 11841-11855	4.9	3
17	Role of defects and microstructure on the electrical properties of solution-processed Al-doped ZnO transparent conducting films. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	3

16	Oxidative electrodeposition of nanocrystalline zinc oxide powders. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 115305	3	3
15	High temperature stability of nanocrystalline anatase powders prepared by chemical vapour synthesis under varying process parameters. <i>Applied Surface Science</i> , 2011 , 257, 6761-6767	6.7	3
14	Effect of gas flow rates on the anatase-rutile transformation temperature of nanocrystalline TiO ₂ synthesised by chemical vapour synthesis. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 5572-7	1.3	3
13	Role of additives SnX ₂ (X=F, Cl) and anti-solvents on the microstructure of PV absorber FASnI ₃ films. <i>Materials Letters</i> , 2020 , 275, 128071	3.3	2
12	Crystal growth and mechanical characterization of ZrMo ₂ O ₈ . <i>Journal of Crystal Growth</i> , 2014 , 404, 100-106		2
11	Hydration of ZrW ₂ O ₈ nanopowders under ambient conditions. <i>Materials Chemistry and Physics</i> , 2014 , 145, 403-406	4.4	2
10	Low thermal budget processing of CdS thin films. <i>Materials Letters</i> , 2020 , 280, 128560	3.3	2
9	Compact Titania Films by Spray Pyrolysis for Application as ETL in Perovskite Solar Cells. <i>Journal of Electronic Materials</i> , 2020 , 49, 7159-7167	1.9	2
8	Low-temperature synthesis of five component single phase high entropy oxide. <i>Ceramics International</i> , 2021 , 47, 22225-22225	5.1	2
7	Chelating agent and substrate effect on hydrothermal growth of Yb ³⁺ /Er ³⁺ doped NaYf ₄ film. <i>Processing and Application of Ceramics</i> , 2021 , 15, 69-78	1.4	2
6	Role of defects in the electronic properties of Al doped ZnO films deposited by spray pyrolysis. <i>Journal of Materials Science</i> , 2022 , 57, 7877	4.3	2
5	Structure, thermal stability, and optical properties of boron modified nanocrystalline anatase prepared by chemical vapor synthesis. <i>Journal of Applied Physics</i> , 2009 , 105, 113526	2.5	1
4	Investigation on the site preferences & magnetic properties of Co-doped SrAl ₄ Fe ₈ O ₁₉ hexaferrite. <i>Materials Chemistry and Physics</i> , 2021 , 259, 124196	4.4	0
3	Nucleation and growth mechanism of wurtzite copper indium disulfide nanoparticles during solution processing. <i>Ceramics International</i> , 2021 , 47, 32086-32096	5.1	0
2	Cu-Ba _{0.7} Sr _{0.3} TiO ₃ composites for electronic packaging. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 9022-9028	2.1	
1	Homogeneous and polymorphic transformations to ordered intermetallics in nanostructured AuCu multilayer thin films. <i>Journal of Materials Science</i> , 2021 , 56, 16113-16133	4.3	