

Jiban Podder

List of Publications by Year in descending order

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86
papers

1,894
citations

279798

23
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302126

39
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86
all docs

86
docs citations

86
times ranked

1883
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural, optical and photocatalysis properties of sol-gel deposited Al-doped ZnO thin films. <i>Surfaces and Interfaces</i> , 2019, 16, 120-126.	3.0	205
2	Optical properties of ZnO nano fiber thin films grown by spray pyrolysis of zinc acetate precursor. <i>Crystal Research and Technology</i> , 2009, 44, 286-292.	1.3	128
3	Band Gap Tuning in ZnO Through Ni Doping via Spray Pyrolysis. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12745-12753.	3.1	104
4	Hydrothermal synthesis of zirconium oxide nanoparticles and its characterization. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 5622-5627.	2.2	77
5	Photochemical deposition of CuxS thin films from aqueous solutions. <i>Thin Solid Films</i> , 2005, 472, 71-75.	1.8	76
6	The study of impurities effect on the growth and nucleation kinetics of potassium dihydrogen phosphate. <i>Journal of Crystal Growth</i> , 2002, 237-239, 70-75.	1.5	62
7	Iodate in calcite and vaterite: Insights from synchrotron X-ray absorption spectroscopy and first-principles calculations. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 198, 218-228.	3.9	56
8	Influence of Ni doping in a lead-halide and a lead-free halide perovskites for optoelectronic applications. <i>AIP Advances</i> , 2019, 9, .	1.3	56
9	Investigation on Structural, Surface Morphological and Dielectric Properties of Zn-doped SnO2 Nanoparticles. <i>Materials Research</i> , 2016, 19, 420-425.	1.3	54
10	Investigations on structural, optical, morphological and electrical properties of nickel oxide nanoparticles. <i>International Journal of Nanoparticles</i> , 2015, 8, 289.	0.3	51
11	Boron doped amorphous carbon thin films grown by r.f. PECVD under different partial pressure. <i>Diamond and Related Materials</i> , 2005, 14, 1799-1804.	3.9	44
12	Eco-friendly approach in synthesis of silver nanoparticles and evaluation of optical, surface morphological and antimicrobial properties. <i>Journal of Nanostructure in Chemistry</i> , 2019, 9, 153-162.	9.1	44
13	Effect of Fe-doping and post annealing temperature on the structural and optical properties of MoO3 nanosheets. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 14355-14367.	2.2	39
14	Spatial and multi-layered assessment of heavy metals in the sand of Cox-Bazar beach of Bangladesh. <i>Regional Studies in Marine Science</i> , 2017, 16, 171-180.	0.7	37
15	Synthesis and characterization of Zn-incorporated TiO2 thin films: impact of crystallite size on X-ray line broadening and bandgap tuning. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	37
16	Solitons in strongly magnetized electron-positron plasmas and pulsar microstructure. <i>Physical Review A</i> , 1987, 36, 1811-1814.	2.5	30
17	Pressure induced semiconductor to metal phase transition in cubic CsSnBr3 perovskite. <i>AIP Advances</i> , 2021, 11, .	1.3	29
18	Green synthesis of cuprous oxide nanoparticles for environmental remediation and enhanced visible-light photocatalytic activity. <i>Optik</i> , 2020, 214, 164849.	2.9	28

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19	An Investigation on the Lattice Distortion in Urea and KCl Doped KDP Single Crystals by X-ray Diffraction Studies. <i>Crystal Research and Technology</i> , 2001, 36, 549-556.	1.3	27
20	Synthesis and characterization of CoWO ₄ nanoparticles via chemical precipitation technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 9885-9890.	2.2	27
21	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
22	The role of Al and Co co-doping on the band gap tuning of TiO ₂ thin films for applications in photovoltaic and optoelectronic devices. <i>Materials Science in Semiconductor Processing</i> , 2021, 121, 105419.	4.0	27
23	Influence of Ni doping on the morphological, structural, optical and electrical properties of CuO thin films deposited via a spray pyrolysis. <i>Optical Materials</i> , 2021, 119, 111388.	3.6	27
24	Synthesis of tungsten carbide nanoparticles by hydrothermal method and its Characterization. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 1136-1141.	2.2	26
25	Semiconductor to metallic transition under induced pressure in Cs ₂ AgBiBr ₆ double halide perovskite: a theoretical DFT study for photovoltaic and optoelectronic applications. <i>RSC Advances</i> , 2021, 11, 24001-24012.	3.6	26
26	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
27	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
28	Synthesis and characterization of manganese sulphide thin films deposited by spray pyrolysis. <i>Crystal Research and Technology</i> , 2011, 46, 267-271.	1.3	21
29	Indirect to direct band gap transition through order to disorder transformation of Cs ₂ AgBiBr ₆ <i>via</i> creating antisite defects for optoelectronic and photovoltaic applications. <i>RSC Advances</i> , 2022, 12, 15461-15469.	3.6	21
30	The effect of metal substitution in CsSn ₃ perovskites with enhanced optoelectronic and photovoltaic properties. <i>RSC Advances</i> , 2021, 11, 39553-39563.	3.6	20
31	Band gap tuning, n-type to p-type transition and ferrimagnetic properties of Mg doped $\hat{1}\pm$ -Fe ₂ O ₃ nanostructured thin films. <i>Journal of Alloys and Compounds</i> , 2020, 818, 152850.	5.5	19
32	Investigation of the optical, photoluminescence, and dielectric properties of P-Toluidinium picrate single crystals. <i>Chinese Journal of Physics</i> , 2020, 67, 283-292.	3.9	19
33	Surface morphology, optical properties and Urbach tail of spray deposited Co ₃ O ₄ thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 4259-4269.	2.2	18
34	Band gap tuning of p-type Al-doped TiO ₂ thin films for gas sensing applications. <i>Thin Solid Films</i> , 2020, 714, 138382.	1.8	17
35	Crystallization and Characterization of Orthorhombic $\hat{1}^2$ -MgSO ₄ $\hat{1}$ -7H ₂ O. <i>Crystal Research and Technology</i> , 2001, 36, 1357.	1.3	15
36	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

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37	Chemically stabilized reduced graphene oxide/zirconia nanocomposite: synthesis and characterization. <i>Materials Research Express</i> , 2017, 4, 115031.	1.6	15
38	Comparison of sunlight-driven photocatalytic activity of semiconductor metal oxides of tin oxide and cadmium oxide nanoparticles. <i>Optik</i> , 2020, 217, 164878.	2.9	14
39	A study on thermal and electrical characterization of Barapukuria coal of northwestern Bangladesh. <i>Thermochimica Acta</i> , 2001, 372, 113-118.	2.7	13
40	Preparation and characterization of CuInS ₂ thin films from aqueous solutions by novel photochemical deposition technique. <i>Journal of Crystal Growth</i> , 2005, 275, e937-e942.	1.5	13
41	Optical and electrical characteristics of pure CdS thin Films for different thickness. <i>Journal of the Bangladesh Academy of Sciences</i> , 2013, 37, 33-41.	0.2	13
42	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
43	Cu-Doped SnO ₂ Nanoparticles: Synthesis and Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 7139-7148.	0.9	13
44	Role of Fe doping on structural and electrical properties of MnO ₂ nanostructured thin films for glucose sensing performance. <i>Materials Science in Semiconductor Processing</i> , 2020, 117, 105109.	4.0	13
45	An investigation into the thermal behaviour of Bangladeshi coals. <i>Thermochimica Acta</i> , 1995, 255, 221-226.	2.7	12
46	Synthesis and characterization of the as-deposited Cd _{1-x} Pb _x S thin films prepared by spray pyrolysis technique. <i>Semiconductors</i> , 2012, 46, 957-961.	0.5	12
47	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
48	Structural, optical and electrical properties of Cu:MnO ₂ nanostructured thin films for glucose sensitivity measurements. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	12
49	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
50	Enhanced gas sensing and photocatalytic activity of reduced graphene oxide loaded TiO ₂ nanoparticles. <i>Chemical Physics Letters</i> , 2021, 780, 138897.	2.6	12
51	An Investigation on the Growth and Characterization of Thiourea Single Crystal Grown from Aqueous Solutions. <i>Journal of the Bangladesh Academy of Sciences</i> , 2009, 33, 63-70.	0.2	11
52	Synthesis of lead titanate nanoparticles via sol-gel technique and its characterization. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 13016-13021.	2.2	10
53	Habit modification of epsomite in the presence of urea. <i>Journal of Crystal Growth</i> , 2003, 247, 523-529.	1.5	9
54	Investigations on growth, thermal, electrical, and etching studies of KCl-doped triglycine sulfate single crystals. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 1107-1112.	3.6	9

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55	Anisotropic crystalline growth developed in Bangladeshi coking coal during mesophase transformation. <i>Thermochimica Acta</i> , 1996, 284, 279-287.	2.7	8
56	Low temperature synthesis of $\hat{1}\pm$ - and $\hat{1}^2$ -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
57	Influence of annealing temperature on tuning the band gap of Mn-doped ZnS thin films deposited by spray pyrolysis technique. <i>Indian Journal of Physics</i> , 2019, 93, 611-616.	1.8	8
58	Synthesis of CuInS ₂ thin films by spray pyrolysis deposition system. <i>Indian Journal of Physics</i> , 2013, 87, 141-146.	1.8	7
59	CBD progression of Ti-doped ZnO thin film spectroscopic characterizations. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 16554-16560.	2.2	7
60	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
61	TRACE ELEMENTAL ANALYSIS OF PERMIAN GONDWANA COALS IN BANGLADESH BY PIXE TECHNIQUE. <i>International Journal of PIXE</i> , 2004, 14, 89-97.	0.4	6
62	EFFECT OF GAS PRESSURE ON THE BORON-DOPED HYDROGENATED AMORPHOUS CARBON THIN FILMS GROWN BY RADIO FREQUENCY PLASMA-ENHANCED CHEMICAL VAPOR DEPOSITION. <i>Surface Review and Letters</i> , 2006, 13, 7-12.	1.1	6
63	OPTICAL AND STRUCTURAL PROPERTIES OF NITROGENATED DIAMOND-LIKE CARBON FILMS PREPARED BY r.f. PECVD. <i>Surface Review and Letters</i> , 2006, 13, 1-6.	1.1	6
64	Effect of EDTA on the Growth Kinetics and Structural and Optical Properties of KDP Crystal. <i>International Journal of Optics</i> , 2010, 2010, 1-5.	1.4	6
65	Synthesis, growth, supramolecularity and antibacterial efficacy of 3,4-dimethoxybenzoic acid single crystals. <i>Chemical Physics Letters</i> , 2021, 764, 138269.	2.6	6
66	Effect of EDTA on the growth kinetics, structural, optical and mechanical properties of ADP crystal. <i>Indian Journal of Physics</i> , 2012, 86, 15-21.	1.8	5
67	The role of heteroatoms on the carbonization and graphitization of polynuclear aromatic compounds. <i>Thermochimica Acta</i> , 1989, 137, 225-232.	2.7	4
68	STRUCTURAL, OPTICAL, AND ELECTRICAL CHARACTERIZATION OF SPRAY PYROLYSED INDIUM SULFIDE THIN FILMS. <i>Surface Review and Letters</i> , 2013, 20, 1350014.	1.1	4
69	Optical properties of spray pyrolysis deposited Cds:Al thin films. <i>Journal of the Bangladesh Academy of Sciences</i> , 2015, 39, 25-30.	0.2	4
70	Structure, Properties, Photocatalytic and Antibacterial Activity and Applications of Zinc Oxide Nanoparticles—An Overview. <i>Journal of Bionanoscience</i> , 2018, 12, 457-468.	0.4	4
71	Studies on the Effect of L-Alanine on the Structural, Optical and Thermal Properties of Potassium Acid Phthalate Crystals. <i>Journal of Applied Sciences</i> , 2011, 11, 2974-2983.	0.3	4
72	Effect of Fe doping on the microstructure, optical and dispersion energy characteristics of TiO ₂ thin films prepared via spray pyrolysis technique. <i>Results in Optics</i> , 2022, 8, 100235.	2.0	4

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73	N-[4-(Dimethylamino)benzylidene]-4-methylaniline. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o905-o905.	0.2	3
74	Enhanced properties of cadmium mercury thiocyanate bis(N-methyl formamide): A promising non-linear optical crystal. Chinese Journal of Physics, 2020, 67, 52-62.	3.9	3
75	STRUCTURAL AND OPTICAL CHARACTERIZATION OF BORON-NITROGEN-DOPED AMORPHOUS CARBON FILMS DEPOSITED BY r.f. PECVD. Modern Physics Letters B, 2007, 21, 455-466.	1.9	2
76	Deposition of Nano Fiber ZnO and Zn _{1-x} Cd _x O Thin Films by a Simple Spray Pyrolysis and Characterizations for Optoelectronic Applications. Advanced Materials Research, 2012, 545, 100-104.	0.3	2
77	EFFECT OF LEAD CHLORIDE ON THE GROWTH AND SURFACE PROPERTIES OF POTASSIUM CHLORIDE CRYSTALS FROM AQUEOUS SOLUTIONS. Surface Review and Letters, 2014, 21, 1450044.	1.1	2
78	Growth and Characterization of Epsomite Single Crystals Doped with KCl from low Temperature Aqueous Solutions. Journal of the Bangladesh Academy of Sciences, 2009, 33, 47-54.	0.2	2
79	SURFACE MORPHOLOGY AND MICROSTRUCTURAL CHARACTERIZATION OF KCl CRYSTALS GROWN IN HALITE-SYLVITE BRINE SOLUTIONS BY ELECTRON BACKSCATTERED DIFFRACTION TECHNIQUES. Surface Review and Letters, 2015, 22, 1550012.	1.1	1
80	Synthesis and characterisation of bis(2 methyl-8-hydroxyquinoline) zinc nanoparticles for organic light emitting diode applications. Molecular Simulation, 2019, 45, 790-796.	2.0	1
81	Bandgap tuning in ZnO thin films and enhanced n-type properties through Mn doping synthesized by a simple spray pyrolysis. International Journal of Modern Physics B, 2021, 35, 2150155.	2.0	1
82	4-Fluoro-N-[(E)-3,4,5-trimethoxybenzylidene]aniline. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1234-o1234.	0.2	1
83	(E)-4-[2-(4-Ethoxyphenyl)ethenyl]-1-methylpyridinium naphthalene-2-sulfonate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o722-o722.	0.2	0
84	2-[(E)-2-(4-Methoxyphenyl)ethenyl]-1-methylpyridinium iodide. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1848-o1848.	0.2	0
85	Electrical and Optical Properties of Zinc doped Titanium dioxide Thin Films. , 2018, , .		0
86	Eco-friendly synthesis of porous activated carbon from agro-food waste for sustainable energy harvesting sources. , 0, , .		0