Jiban Podder

List of Publications by Year
in descending order

86 papers	1,894 citations	279798 23 h-index	302126 39 g-index
86 all docs	86 docs citations	86 times ranked	1883 citing authors

#	Article	IF	Citations
1	Texture coefficient and band gap tailoring of Fe-doped SnO2 nanoparticles via thermal spray pyrolysis. Rare Metals, 2022, 41, 1332-1341.	7.1	13
2	Effect of Fe doping on the microstructure, optical and dispersion energy characteristics of TiO2 thin films prepared via spray pyrolysis technique. Results in Optics, 2022, 8, 100235.	2.0	4
3	Indirect to direct band gap transition through order to disorder transformation of Cs₂AgBiBr₆via creating antisite defects for optoelectronic and photovoltaic applications. RSC Advances, 2022, 12, 15461-15469.	3.6	21
4	The role of Al and Co co-doping on the band gap tuning of TiO2 thin films for applications in photovoltaic and optoelectronic devices. Materials Science in Semiconductor Processing, 2021, 121, 105419.	4.0	27
5	Influence of Fe3+ ions doping on TiO2 thin films: Defect generation, d-d transition and band gap tuning for optoelectronic device applications. Physica B: Condensed Matter, 2021, 604, 412618.	2.7	23
6	Synthesis, growth, supramolecularity and antibacterial efficacy of 3,4-dimethoxybenzoic acid single crystals. Chemical Physics Letters, 2021, 764, 138269.	2.6	6
7	Semiconductor to metallic transition under induced pressure in Cs₂AgBiBr₆ double halide perovskite: a theoretical DFT study for photovoltaic and optoelectronic applications. RSC Advances, 2021, 11, 24001-24012.	3.6	26
8	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
9	Pressure induced semiconductor to metal phase transition in cubic CsSnBr3 perovskite. AIP Advances, 2021, 11, .	1.3	29
10	Bond length controlling opto-structural properties of Mn doped CuO thin films: An experimental and theoretical study. Materials Science in Semiconductor Processing, 2021, 129, 105798.	4.0	15
11	Electronic structure transition of cubic CsSnCl3 under pressure: effect of rPBE and PBEsol functionals and GW method. Heliyon, 2021, 7, e07796.	3.2	7
12	Effect of Co doping in tailoring the crystallite size, surface morphology and optical band gap of CuO thin films prepared via thermal spray pyrolysis. Surfaces and Interfaces, 2021, 25, 101269.	3.0	12
13	Influence of Ni doping on the morphological, structural, optical and electrical properties of CuO thin films deposited via a spray pyrolysis. Optical Materials, 2021, 119, 111388.	3.6	27
14	Enhanced gas sensing and photocatalytic activity of reduced graphene oxide loaded TiO2 nanoparticles. Chemical Physics Letters, 2021, 780, 138897.	2.6	12
15	The effect of metal substitution in CsSnI₃ perovskites with enhanced optoelectronic and photovoltaic properties. RSC Advances, 2021, 11, 39553-39563.	3.6	20
16	Band gap tuning, n-type to p-type transition and ferrimagnetic properties of Mg doped Î±-Fe2O3 nanostructured thin films. Journal of Alloys and Compounds, 2020, 818, 152850.	5.5	19
17	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
18	Optical constants and dispersion energy parameters of Zn-doped TiO2 thin films prepared by spray pyrolysis technique. Surfaces and Interfaces, 2020, 21, 100725.	3.0	12

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19	Band gap tuning of p-type al-doped tio2 thin films for gas sensing applications. Thin Solid Films, 2020, 714, 138382.	1.8	17
20	Investigation of the optical, photoluminescence, and dielectric properties of P-Toludinium picrate single crystals. Chinese Journal of Physics, 2020, 67, 283-292.	3.9	19
21	Comparison of sunlight-driven photocatalytic activity of semiconductor metal oxides of tin oxide and cadmium oxide nanoparticles. Optik, 2020, 217, 164878.	2.9	14
22	Role of Fe doping on structural and electrical properties of MnO2 nanostructured thin films for glucose sensing performance. Materials Science in Semiconductor Processing, 2020, 117, 105109.	4.0	13
23	Green synthesis of cuprous oxide nanoparticles for environmental remediation and enhanced visible-light photocatalytic activity. Optik, 2020, 214, 164849.	2.9	28
24	p to n-type transition with wide blue shift optical band gap of spray synthesized Cd doped CuO thin films for optoelectronic device applications. Surfaces and Interfaces, 2020, 19, 100459.	3.0	27
25	Structural, optical and electrical properties of Cu:MnO2 nanostructured thin films for glucose sensitivity measurements. SN Applied Sciences, 2020, 2, 1.	2.9	12
26	Low temperature synthesis of Î±- and Î²-phase Bi2O3 thin film via B doping: tailoring optical band gap and n- to p-type Bi2O3. Journal of Materials Science: Materials in Electronics, 2019, 30, 15670-15682.	2.2	8
27	Effect of Fe-doping and post annealing temperature on the structural and optical properties of MoO3 nanosheets. Journal of Materials Science: Materials in Electronics, 2019, 30, 14355-14367.	2.2	39
28	Synthesis and characterization of Zn-incorporated TiO2 thin films: impact of crystallite size on X-ray line broadening and bandgap tuning. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	37
29	Eco-friendly approach in synthesis of silver nanoparticles and evaluation of optical, surface morphological and antimicrobial properties. Journal of Nanostructure in Chemistry, 2019, 9, 153-162.	9.1	44
30	Structural, optical and photocatalysis properties of solâ€“gel deposited Al-doped ZnO thin films. Surfaces and Interfaces, 2019, 16, 120-126.	3.0	205
31	Cu-Doped SnO₂ Nanoparticles: Synthesis and Properties. Journal of Nanoscience and Nanotechnology, 2019, 19, 7139-7148.	0.9	13
32	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
33	Influence of Ni doping in a lead-halide and a lead-free halide perovskites for optoelectronic applications. AIP Advances, 2019, 9, .	1.3	56
34	Surface morphology, optical properties and Urbach tail of spray deposited Co3O4 thin films. Journal of Materials Science: Materials in Electronics, 2019, 30, 4259-4269.	2.2	18
35	Influence of annealing temperature on tuning the band gap of Mn-doped ZnS thin films deposited by spray pyrolysis technique. Indian Journal of Physics, 2019, 93, 611-616.	1.8	8
36	Influence of Fe2+/Fe3+ ions in tuning the optical band gap of SnO2 nanoparticles synthesized by TSP method: Surface morphology, structural and optical studies. Materials Science in Semiconductor Processing, 2019, 89, 223-233.	4.0	22

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37	Electrical and Optical Properties of Zinc doped Titanium dioxide Thin Films. , 2018, , .		0
38	Structure, Properties, Photocatalytic and Antibacterial Activity and Applications of Zinc Oxide Nanoparticlesâ€"An Overview. Journal of Bionanoscience, 2018, 12, 457-468.	0.4	4
39	Iodate in calcite and vaterite: Insights from synchrotron X-ray absorption spectroscopy and first-principles calculations. Geochimica Et Cosmochimica Acta, 2017, 198, 218-228.	3.9	56
40	Spatial and multi-layered assessment of heavy metals in the sand of Coxâ€™s-Bazar beach of Bangladesh. Regional Studies in Marine Science, 2017, 16, 171-180.	0.7	37
41	CBD progression of Ti-doped ZnO thin film spectroscopic characterizations. Journal of Materials Science: Materials in Electronics, 2017, 28, 16554-16560.	2.2	7
42	Synthesis of tungsten carbide nanoparticles by hydrothermal method and its Characterization. Journal of Materials Science: Materials in Electronics, 2017, 28, 1136-1141.	2.2	26
43	Chemically stabilized reduced graphene oxide/zirconia nanocomposite: synthesis and characterization. Materials Research Express, 2017, 4, 115031.	1.6	15
44	Investigation on Structural, Surface Morphological and Dielectric Properties of Zn-doped SnO2 Nanoparticles. Materials Research, 2016, 19, 420-425.	1.3	54
45	Synthesis and characterization of CoWO4 nanoparticles via chemical precipitation technique. Journal of Materials Science: Materials in Electronics, 2016, 27, 9885-9890.	2.2	27
46	Synthesis of lead titanate nanoparticles via solâ€"gel technique and its characterization. Journal of Materials Science: Materials in Electronics, 2016, 27, 13016-13021.	2.2	10
47	Hydrothermal synthesis of zirconium oxide nanoparticles and its characterization. Journal of Materials Science: Materials in Electronics, 2016, 27, 5622-5627.	2.2	77
48	Optical properties of spray pyrolysis deposited Cds:Al thin films. Journal of the Bangladesh Academy of Sciences, 2015, 39, 25-30.	0.2	4
49	Investigations on structural, optical, morphological and electrical properties of nickel oxide nanoparticles. International Journal of Nanoparticles, 2015, 8, 289.	0.3	51
50	SURFACE MORPHOLOGY AND MICROSTRUCTURAL CHARACTERIZATION OF KCl CRYSTALS GROWN IN HALITEâ€"SYLVITE BRINE SOLUTIONS BY ELECTRON BACKSCATTERED DIFFRACTION TECHNIQUES. Surface Review and Letters, 2015, 22, 1550012.	1.1	1
51	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
52	Synthesis of CuInS2 thin films by spray pyrolysis deposition system. Indian Journal of Physics, 2013, 87, 141-146.	1.8	7
53	N-[4-(Dimethylamino)benzylidene]-4-methylaniline. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o905-o905.	0.2	3
54	Band Gap Tuning in ZnO Through Ni Doping via Spray Pyrolysis. Journal of Physical Chemistry C, 2013, 117, 12745-12753.	3.1	104

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55	(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
56	2-[(E)-2-(4-Methoxyphenyl)ethenyl]-1-methylpyridinium iodide. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1848-o1848.	0.2	0
57	STRUCTURAL, OPTICAL, AND ELECTRICAL CHARACTERIZATION OF SPRAY PYROLYSED INDIUM SULFIDE THIN FILMS. Surface Review and Letters, 2013, 20, 1350014.	1.1	4
58	Optical and electrical characteristics of pure CdS thin Films for different thickness. Journal of the Bangladesh Academy of Sciences, 2013, 37, 33-41.	0.2	13
59	4-Fluoro-N-[(E)-3,4,5-trimethoxybenzylidene]aniline. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1234-o1234.	0.2	1
60	Investigations on growth, thermal, electrical, and etching studies of KCl-doped triglycine sulfate single crystals. Journal of Thermal Analysis and Calorimetry, 2012, 110, 1107-1112.	3.6	9
61	Deposition of Nano Fiber ZnO and Zn_{1-x}Cd_xO Thin Films by a Simple Spray Pyrolysis and Characterizations for Optoelectronic Applications. Advanced Materials Research, 2012, 545, 100-104.	0.3	2
62	Effect of EDTA on the growth kinetics, structural, optical and mechanical properties of ADP crystal. Indian Journal of Physics, 2012, 86, 15-21.	1.8	5
63	Synthesis and characterization of the as-deposited Cd1 â^' x Pb x S thin films prepared by spray pyrolysis technique. Semiconductors, 2012, 46, 957-961.	0.5	12
64	Synthesis and characterization of manganese sulphide thin films deposited by spray pyrolysis. Crystal Research and Technology, 2011, 46, 267-271.	1.3	21
65	Studies on the Effect of L-Alanine on the Structural, Optical and Thermal Properties of Potassium Acid Phthalate Crystals. Journal of Applied Sciences, 2011, 11, 2974-2983.	0.3	4
66	Effect of EDTA on the Growth Kinetics and Structural and Optical Properties of KDP Crystal. International Journal of Optics, 2010, 2010, 1-5.	1.4	6
67	An Investigation on the Growth and Characterization of Thiourea Single Crystal Grown from Aqueous Solutions. Journal of the Bangladesh Academy of Sciences, 2009, 33, 63-70.	0.2	11
68	Optical properties of ZnO nano fiber thin films grown by spray pyrolysis of zinc acetate precursor. Crystal Research and Technology, 2009, 44, 286-292.	1.3	128
69	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
70	STRUCTURAL AND OPTICAL CHARACTERIZATION OF BORONâ€"NITROGEN-DOPED AMORPHOUS CARBON FILMS DEPOSITED BY r.f. PECVD. Modern Physics Letters B, 2007, 21, 455-466.	1.9	2
71	EFFECT OF GAS PRESSURE ON THE BORON-DOPED HYDROGENATED AMORPHOUS CARBON THIN FILMS GROWN BY RADIO FREQUENCY PLASMA-ENHANCED CHEMICAL VAPOR DEPOSITION. Surface Review and Letters, 2006, 13, 7-12.	1.1	6
72	OPTICAL AND STRUCTURAL PROPERTIES OF NITROGENATED DIAMOND-LIKE CARBON FILMS PREPARED BY r.f. PECVD. Surface Review and Letters, 2006, 13, 1-6.	1.1	6

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73	Preparation and characterization of CuInS2 thin films from aqueous solutions by novel photochemical deposition technique. Journal of Crystal Growth, 2005, 275, e937-e942.	1.5	13
74	Photochemical deposition of CuxS thin films from aqueous solutions. Thin Solid Films, 2005, 472, 71-75.	1.8	76
75	Boron doped amorphous carbon thin films grown by r.f. PECVD under different partial pressure. Diamond and Related Materials, 2005, 14, 1799-1804.	3.9	44
76	TRACE ELEMENTAL ANALYSIS OF PERMIAN GONDWANA COALS IN BANGLADESH BY PIXE TECHNIQUE. International Journal of PIXE, 2004, 14, 89-97.	0.4	6
77	Habit modification of epsomite in the presence of urea. Journal of Crystal Growth, 2003, 247, 523-529.	1.5	9
78	The study of impurities effect on the growth and nucleation kinetics of potassium dihydrogen phosphate. Journal of Crystal Growth, 2002, 237-239, 70-75.	1.5	62
79	A study on thermal and electrical characterization of Barapukuria coal of northwestern Bangladesh. Thermochimica Acta, 2001, 372, 113-118.	2.7	13
80	An Investigation on the Lattice Distortion in Urea and KCl Doped KDP Single Crystals by X-ray Diffraction Studies. Crystal Research and Technology, 2001, 36, 549-556.	1.3	27
81	Crystallization and Characterization of Orthorhombic Î²-MgSO4 Â· 7H2O. Crystal Research and Technology, 2001, 36, 1357.	1.3	15
82	Anisotropic crystalline growth developed in Bangladeshi coking coal during mesophase transformation. Thermochimica Acta, 1996, 284, 279-287.	2.7	8
83	An investigation into the thermal behaviour of Bangladeshi coals. Thermochimica Acta, 1995, 255, 221-226.	2.7	12
84	The role of heteroatoms on the carbonization and graphitization of polynuclear aromatic compounds. Thermochimica Acta, 1989, 137, 225-232.	2.7	4
85	Solitons in strongly magnetized electron-positron plasmas and pulsar microstructure. Physical Review A, 1987, 36, 1811-1814.	2.5	30
86	Eco-friendly synthesis of porous activated carbon from agro-food waste for sustainable energy harvesting sources. , 0, , .		0