

Arghya Banerjee

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86
papers

2,829
citations

30
h-index

51
g-index

89
ext. papers

3,198
ext. citations

4.3
avg, IF

5.68
L-index

#	Paper	IF	Citations
86	Recent developments in the emerging field of crystalline p-type transparent conducting oxide thin films. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2005 , 50, 52-105	3.5	277
85	Low-temperature deposition of ZnO thin films on PET and glass substrates by DC-sputtering technique. <i>Thin Solid Films</i> , 2006 , 496, 112-116	2.2	165
84	The design, fabrication, and photocatalytic utility of nanostructured semiconductors: focus on TiO ₂ -based nanostructures. <i>Nanotechnology, Science and Applications</i> , 2011 , 4, 35-65	3.9	164
83	Synthesis and characterization of p-type transparent conducting CuAlO ₂ thin film by DC sputtering. <i>Thin Solid Films</i> , 2003 , 440, 5-10	2.2	128
82	Oxygen Vacancy-Induced Structural, Optical, and Enhanced Supercapacitive Performance of Zinc Oxide Anchored Graphitic Carbon Nanofiber Hybrid Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5025-39	9.5	123
81	Size-dependent optical properties of sputter-deposited nanocrystalline p-type transparent CuAlO ₂ thin films. <i>Journal of Applied Physics</i> , 2005 , 97, 084308	2.5	110
80	Thermoelectric properties and electrical characteristics of sputter-deposited p-CuAlO ₂ thin films. <i>Thin Solid Films</i> , 2005 , 474, 261-266	2.2	106
79	Graphene and its derivatives as biomedical materials: future prospects and challenges. <i>Interface Focus</i> , 2018 , 8, 20170056	3.9	101
78	Effect of excess oxygen on the electrical properties of transparent p-type conducting CuAlO thin films. <i>Solar Energy Materials and Solar Cells</i> , 2005 , 89, 75-83	6.4	87
77	A Review on Cu ₂ O and CuI-Based p-Type Semiconducting Transparent Oxide Materials: Promising Candidates for New Generation Oxide Based Electronics. <i>Reviews in Advanced Sciences and Engineering</i> , 2013 , 2, 273-304		86
76	Preparation of p-type transparent conducting CuAlO ₂ thin films by reactive DC sputtering. <i>Materials Letters</i> , 2004 , 58, 10-13	3.3	83
75	Recent developments in TiO ₂ as n- and p-type transparent semiconductors: synthesis, modification, properties, and energy-related applications. <i>Journal of Materials Science</i> , 2015 , 50, 7495-7536	4.3	75
74	Synthesis and Characterization of Nano-Crystalline Fluorine-Doped Tin Oxide Thin Films by Sol-Gel Method. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 28, 105-110	2.3	69
73	Synthesis of crystalline carbon nitride thin films by electrolysis of methanol/urea solution. <i>Materials Letters</i> , 2003 , 57, 2193-2197	3.3	68
72	Fabrication and characterization of all-oxide heterojunction p-CuAlO _{2+x} /n-Zn _{1-x} Al _x O transparent diode for potential application in invisible electronics. <i>Thin Solid Films</i> , 2007 , 515, 7324-7330	2.2	60
71	Low-threshold field emission from transparent p-type conducting CuAlO ₂ thin film prepared by dc sputtering. <i>Applied Surface Science</i> , 2004 , 225, 243-249	6.7	54
70	Bio-silica coated with amorphous manganese oxide as an efficient catalyst for rapid degradation of organic pollutant. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 106, 151-7	6	44

69	Biofilm formation on a TiO ₂ nanotube with controlled pore diameter and surface wettability. <i>Nanotechnology</i> , 2015 , 26, 065102	3.4	43
68	Cell electrofusion in microfluidic devices: A review. <i>Sensors and Actuators B: Chemical</i> , 2013 , 178, 63-85	8.5	43
67	Electro-optical characteristics and field-emission properties of reactive DC-sputtered p-CuAlO ₂ +x thin films. <i>Physica B: Condensed Matter</i> , 2005 , 370, 264-276	2.8	42
66	Enhanced thermo-optical performance and high BET surface area of graphene@PVC nanocomposite fibers prepared by simple facile deposition technique: N ₂ adsorption study. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 21, 828-834	6.3	40
65	Poole-Frenkel effect in nanocrystalline SnO ₂ :F thin films prepared by a sol-gel dip-coating technique. <i>Physica Status Solidi A</i> , 2004 , 201, 983-989		38
64	A simple biogenic route to rapid synthesis of Au@TiO ₂ nanocomposites by electrochemically active biofilms. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	35
63	Photocatalytic Degradation of Organic Dye by Sol-Gel-Derived Gallium-Doped Anatase Titanium Oxide Nanoparticles for Environmental Remediation. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-14	3.2	35
62	Size controlled deposition of Cu and Si nano-clusters by an ultra-high vacuum sputtering gas aggregation technique. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 90, 299-303	2.6	35
61	Improved electrochemical properties of morphology-controlled titania/titanate nanostructures prepared by in-situ hydrothermal surface modification of self-source Ti substrate for high-performance supercapacitors. <i>Scientific Reports</i> , 2017 , 7, 13227	4.9	34
60	A comparative study of the effect of Pd-doping on the structural, optical, and photocatalytic properties of sol-gel derived anatase TiO ₂ nanoparticles. <i>Ceramics International</i> , 2016 , 42, 12010-12026	5.1	34
59	Fast degradation of dyes in water using manganese-oxide-coated diatomite for environmental remediation. <i>Journal of Physics and Chemistry of Solids</i> , 2016 , 98, 50-58	3.9	33
58	High-speed droplet actuation on single-plate electrode arrays. <i>Journal of Colloid and Interface Science</i> , 2011 , 362, 567-74	9.3	31
57	Anchoring Mechanism of ZnO Nanoparticles on Graphitic Carbon Nanofiber Surfaces through a Modified Co-Precipitation Method to Improve Interfacial Contact and Photocatalytic Performance. <i>ChemPhysChem</i> , 2015 , 16, 3214-32	3.2	30
56	Synthesis of amorphous manganese oxide nanoparticles to crystalline nanorods through a simple wet-chemical technique using K ⁺ ions as a growth director and their morphology-controlled high performance supercapacitor applications. <i>RSC Advances</i> , 2016 , 6, 78887-78908	3.7	30
55	Determination of strain, site occupancy, photoluminescent, and thermoluminescent-trapping parameters of Sm ³⁺ -doped NaSrB ₅ O ₉ microstructures. <i>Ceramics International</i> , 2016 , 42, 1234-1245	5.1	28
54	Improved electrochemical properties of highly porous amorphous manganese oxide nanoparticles with crystalline edges for superior supercapacitors. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 56, 212-224	6.3	25
53	Biowaste-derived carbon black applied to polyaniline-based high-performance supercapacitor microelectrodes: Sustainable materials for renewable energy applications. <i>Electrochimica Acta</i> , 2019 , 316, 202-218	6.7	24
52	Quantum size effect in the photoluminescence properties of p-type semiconducting transparent CuAlO ₂ nanoparticles. <i>Journal of Applied Physics</i> , 2012 , 112, 114329	2.5	20

51	Nonstoichiometry-Induced Enhancement of Electrochemical Capacitance in Anodic TiO ₂ Nanotubes with Controlled Pore Diameter. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 9569-9580	3.8	20
50	Barrier-oxide layer engineering of TiO ₂ nanotube arrays to get single- and multi-stage Y-branched nanotubes: Effect of voltage ramping and electrolyte conductivity. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015 , 195, 1-11	3.1	18
49	Morphology-dependent low macroscopic field emission properties of titania/titanate nanorods synthesized by alkali-controlled hydrothermal treatment of a metallic Ti surface. <i>Nanotechnology</i> , 2015 , 26, 355705	3.4	17
48	Synthesis of Amorphous and Crystalline Hollow Manganese Oxide Nanotubes with Highly Porous Walls Using Carbon Nanotube Templates and Enhanced Catalytic Activity. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 9743-9753	3.9	17
47	Enhanced electrochemical performance of morphology-controlled titania-reduced graphene oxide nanostructures fabricated via a combined anodization-hydrothermal process. <i>RSC Advances</i> , 2016 , 6, 12571-12583	3.7	16
46	Field emission characterization of vertically oriented uniformly grown nickel nanorod arrays on metal-coated silicon substrate. <i>Journal of Applied Physics</i> , 2010 , 107, 114317	2.5	15
45	Low-macroscopic field emission from fibrous ZnO thin film prepared by catalyst-free solution route. <i>Applied Surface Science</i> , 2004 , 236, 231-235	6.7	15
44	Synthesis and optical characterization of amorphous carbon nitride thin films by hot filament assisted RF plasma CVD. <i>Vacuum</i> , 2003 , 69, 495-500	3.7	15
43	Poole-Frenkel effect in sputter-deposited CuAlO(2+x) nanocrystals. <i>Nanotechnology</i> , 2013 , 24, 165705	3.4	14
42	Effect of Potassium Ions on the Formation of Crystalline Manganese Oxide Nanorods via Acidic Reduction of Potassium Permanganate. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 14154-14159	3.9	14
41	Synthesis and Characterization of Birnessite and Cryptomelane Nanostructures in Presence of Hoffmeister Anions. <i>Journal of Nanomaterials</i> , 2009 , 2009, 1-8	3.2	14
40	Enhanced thermo-mechanical performance and strain-induced band gap reduction of TiO ₂ @PVC nanocomposite films. <i>Bulletin of Materials Science</i> , 2015 , 38, 283-290	1.7	13
39	Wet-chemical dip-coating preparation of highly oriented copper/aluminum oxide thin film and its opto-electrical characterization. <i>Physica B: Condensed Matter</i> , 2011 , 406, 220-224	2.8	13
38	Low-macroscopic field emission properties of wide bandgap copper aluminium oxide nanoparticles for low-power panel applications. <i>Nanotechnology</i> , 2011 , 22, 365705	3.4	13
37	An ultrahigh vacuum complementary metal oxide silicon compatible nonlithographic system to fabricate nanoparticle-based devices. <i>Review of Scientific Instruments</i> , 2008 , 79, 033910	1.7	13
36	Electro-optical properties of all-oxide p-CuAlO ₂ /n-ZnO: Al transparent heterojunction thin film diode fabricated on glass substrate. <i>Open Physics</i> , 2008 , 6,	1.3	13
35	Surface modification of titania nanotube arrays with crystalline manganese-oxide nanostructures and fabrication of hybrid electrochemical electrode for high-performance supercapacitors. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 62, 409-417	6.3	12
34	Nanocrystalline ZnO thin film deposition on flexible substrate by low-temperature sputtering process for plastic displays. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 7970-5	1.3	11

33	Efficient production of ultrapure manganese oxides via electrodeposition. <i>Journal of Colloid and Interface Science</i> , 2012 , 379, 141-3	9.3	10
32	Rapid Classification of COVID-19 Severity by ATR-FTIR Spectroscopy of Plasma Samples. <i>Analytical Chemistry</i> , 2021 , 93, 10391-10396	7.8	10
31	"Electro-Typing" on a Carbon-Nanoparticles-Filled Polymeric Film using Conducting Atomic Force Microscopy. <i>Advanced Materials</i> , 2017 , 29, 1703079	24	9
30	Large field enhancement at electrochemically grown quasi-1D Ni nanostructures with low-threshold cold-field electron emission. <i>Nanotechnology</i> , 2011 , 22, 035702	3.4	9
29	Fabrication of hierarchical porous anodized titania nano-network with enhanced active surface area: Ruthenium-based dye adsorption studies for dye-sensitized solar cell (DSSC) application. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 29, 227-237	6.3	8
28	Electrochemical growth of ordered nickel nano-rods within a composite structure of anodic-alumina-membrane/metal/silicon substrate. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 4252-8	1.3	8
27	In-situ design of porous vanadium nitride@carbon nanobelts: a promising material for high-performance asymmetric supercapacitors. <i>Applied Surface Science</i> , 2021 , 151734	6.7	8
26	In vitro cytotoxicity of in-situ synthesized zinc oxide anchored graphitic carbon nanofiber on HeLa cells. <i>Materials Science in Semiconductor Processing</i> , 2017 , 59, 87-92	4.3	7
25	Implementation of complex nanosystems using a versatile ultrahigh vacuum nonlithographic technique. <i>Nanotechnology</i> , 2007 , 18, 445202	3.4	7
24	Bioinspired tailoring of nanoarchitected nickel sulfide@nickel permeated carbon composite as highly durable and redox chemistry enabled battery-type electrode for hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> ,	13	7
23	Urea-assisted hydrothermal synthesis of MnMoO ₄ /MnCO ₃ hybrid electrochemical electrode and fabrication of high-performance asymmetric supercapacitor. <i>Journal of Materials Science and Technology</i> , 2022 , 96, 332-344	9.1	7
22	Conductivity inversion of ZnO nanoparticles in ZnO-carbon nanofiber hybrid thin film devices by surfactant-assisted C-doping and non-rectifying, non-linear electrical properties via interfacial trap-induced tunneling for stress-grading applications. <i>Journal of Applied Physics</i> , 2019 , 125, 175106	2.5	6
21	Synthesis of metal-incorporated graphitic microporous carbon terminated with highly-ordered graphene walls Controlling the number of graphene layers by ambient-temperature metal sputtering. <i>Applied Surface Science</i> , 2013 , 268, 588-600	6.7	6
20	Ambient-temperature fabrication of microporous carbon terminated with graphene walls by sputtering process for hydrogen storage applications. <i>Thin Solid Films</i> , 2013 , 537, 49-57	2.2	6
19	FESEM studies of densely packed aligned nickel nanopillars on silicon substrate by electrochemical deposition through porous alumina membrane. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 175, 36-40	3.1	6
18	Synthesis of boron-doped diamond films by DC plasma CVD using a CH ₄ +CO ₂ +H ₂ gas mixture at lower substrate temperature and formation of an n-Si/p-diamond heterojunction. <i>Vacuum</i> , 2003 , 72, 129-134	3.7	6
17	Prospects and Challenges of Graphene-Based Nanomaterials in Nanomedicine 2016 , 1,		6
16	Site-specific fabrication of graphitic microporous carbon terminated with ordered multilayer graphene walls. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 315-317	2.5	5

15	Isothermal titration calorimetry, transmission electron microscopy, and field emission scanning electron microscopy of a main-chain viologen polymer containing bromide as counterions. <i>Polymer</i> , 2009 , 50, 2393-2401	3.9	5
14	Status review on the Cu ₂ SnSe ₃ (CTSe) thin films for photovoltaic applications. <i>Solar Energy</i> , 2020 , 208, 1001-1030	6.8	5
13	Transition from mobility-activated small polaron to carrier density-activated conduction of sol-gel-derived highly-oriented CuAlO ₂ thin film and enhanced thermoelectric properties. <i>Ceramics International</i> , 2018 , 44, 5950-5960	5.1	4
12	Nanostructured p-type semiconducting transparent oxides: promising materials for nano-active devices and the emerging field of "transparent nanoelectronics". <i>Recent Patents on Nanotechnology</i> , 2008 , 2, 41-68	1.2	4
11	Facile construction and controllable design of CoTiO ₃ @Co ₃ O ₄ /NCNO hybrid heterojunction nanocomposite electrode for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2022 , 407, 139868	6.7	4
10	Superior energy-power performance of N-doped carbon nano-onions-based asymmetric and symmetric supercapacitor devices. <i>International Journal of Energy Research</i> ,	4.5	4
9	Enhanced Field-Emission Properties of Sol-Gel-Derived Nanostructured (hbox {SnO}_{2}):F Thin Film for Vacuum Microelectronics. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 3815-3821	2.5	2
8	Synthesis of crystalline zinc hydroxystannate and its thermally driven amorphization and recrystallization into zinc orthostannate and their phase-dependent cytotoxicity evaluation. <i>Materials Chemistry and Physics</i> , 2020 , 248, 122946	4.4	1
7	Effect of cerium doping on the structural, morphological, photoluminescent and thermoluminescent properties of sodium strontium pentaborate microstructures. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	1
6	Structural studies and optical properties of pearl nucleus irradiated by γ . <i>Radiation Effects and Defects in Solids</i> , 2013 , 168, 696-704	0.9	1
5	Auto-barrier-thinning effect under rapid anodization of nanoporous alumina membrane. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 238-240	2.5	1
4	Reduced bias synthesis of cubic boron nitride thin films by magnetically enhanced inductively coupled radio frequency plasma chemical vapor deposition. <i>Materials Letters</i> , 2003 , 57, 1459-1463	3.3	1
3	Template-Based Synthesis of Hollow Nanotubular ZnO Structures and Nonlinear Electrical Properties under Field-Induced Trap-Assisted Tunneling. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 28371-28386	3.8	1
2	High hydrogen uptake by a metal-graphene-microporous carbon network. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 271, 115275	3.1	1
1	Functionalization of 0-D and 2-D carbon nitride nanostructures on bio-derived carbon spheres for sustainable electrochemical supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 902, 115808	4.1	