Arghya Banerjee

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86
papers

2,829
citations

89
ext. papers

3,198
ext. citations

30
h-index

4.3
avg, IF

5.68
L-index

#	Paper	IF	Citations
86	Facile construction and controllable design of CoTiO3@Co3O4/NCNO hybrid heterojunction nanocomposite electrode for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2022 , 407, 13986.	8 ^{6.7}	4
85	Urea-assisted hydrothermal synthesis of MnMoO4/MnCO3 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
84	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
83	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	
82	Rapid Classification of COVID-19 Severity by ATR-FTIR Spectroscopy of Plasma Samples. <i>Analytical Chemistry</i> , 2021 , 93, 10391-10396	7.8	10
81	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
80	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
79	Status review on the Cu2SnSe3 (CTSe) thin films for photovoltaic applications. <i>Solar Energy</i> , 2020 , 208, 1001-1030	6.8	5
78	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, 283	7 ³ 1 ⁸ 283	38 ⁷ 6
77	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
76	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
75	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
74	Enhanced Field-Emission Properties of Sol G el-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
73	Transition from mobility-activated small polaron to carrier density-activated conduction of sol-gel-derived highly-oriented CuAlO2 thin film and enhanced thermoelectric properties. <i>Ceramics International</i> , 2018 , 44, 5950-5960	5.1	4
72	Graphene and its derivatives as biomedical materials: future prospects and challenges. <i>Interface Focus</i> , 2018 , 8, 20170056	3.9	101
71	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
70	"Electro-Typing" on a Carbon-Nanoparticles-Filled Polymeric Film using Conducting Atomic Force Microscopy. <i>Advanced Materials</i> , 2017 , 29, 1703079	24	9

(2015-2017)

69	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
68	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
67	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
66	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
65	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
64	Oxygen Vacancy-Induced Structural, Optical, and Enhanced Supercapacitive Performance of Zinc Oxide Anchored Graphitic Carbon Nanofiber Hybrid Electrodes. <i>ACS Applied Materials & Materials & Interfaces</i> , 2016 , 8, 5025-39	9.5	123
63	Determination of strain, site occupancy, photoluminescent, and thermoluminescent-trapping parameters of Sm3+-doped NaSrB5O9 microstructures. <i>Ceramics International</i> , 2016 , 42, 1234-1245	5.1	28
62	Prospects and Challenges of Graphene-Based Nanomaterials in Nanomedicine 2016 , 1,		6
61	A comparative study of the effect of Pd-doping on the structural, optical, and photocatalytic properties of solgel derived anatase TiO2 nanoparticles. <i>Ceramics International</i> , 2016 , 42, 12010-12026	5.1	34
60	Nonstoichiometry-Induced Enhancement of Electrochemical Capacitance in Anodic TiO2 Nanotubes with Controlled Pore Diameter. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 9569-9580	3.8	20
59	Synthesis of amorphous manganese oxide nanoparticles Ito Itrystalline nanorods through a simple wet-chemical technique using K+ ions as a growth directorIand their morphology-controlled high performance supercapacitor applications. <i>RSC Advances</i> , 2016 , 6, 78887-78	3.7 908	30
58	Biofilm formation on a TiOIhanotube with controlled pore diameter and surface wettability. <i>Nanotechnology</i> , 2015 , 26, 065102	3.4	43
57	Recent developments in TiO2 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
56	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
55	Enhanced thermo-mechanical performance and strain-induced band gap reduction of TiO2@PVC nanocomposite films. <i>Bulletin of Materials Science</i> , 2015 , 38, 283-290	1.7	13
54	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
53	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
52	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

51	Barrier-oxide layer engineering of TiO2 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
50	Synthesis of Amourphous and Crystalline Hollow Manganese Oxide Nanotubes with Highly Porous Walls Using Carbon Nanotube Templates and Enhanced Catalytic Activity. <i>Industrial &</i> Engineering Chemistry Research, 2014 , 53, 9743-9753	3.9	17
49	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
48	Poole-Frenkel effect in sputter-deposited CuAlO(2+x) nanocrystals. <i>Nanotechnology</i> , 2013 , 24, 165705	3.4	14
47	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
46	Cell electrofusion in microfluidic devices: A review. Sensors and Actuators B: Chemical, 2013, 178, 63-85	8.5	43
45	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, 1415	5 4 -941	5 9 4
44	Synthesis of metal-incorporated graphitic microporous carbon terminated with highly-ordered graphene wallstontrolling the number of graphene layers by ambient-temperature metal sputtering. <i>Applied Surface Science</i> , 2013 , 268, 588-600	6.7	6
43	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
42	A Review on Cu2O 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
41	Structural studies and optical properties of pearl nucleus irradiated by Fray. <i>Radiation Effects and Defects in Solids</i> , 2013 , 168, 696-704	0.9	1
40	Efficient production of ultrapure manganese oxides via electrodeposition. <i>Journal of Colloid and Interface Science</i> , 2012 , 379, 141-3	9.3	10
39	A simple biogenic route to rapid synthesis of Au@TiO2 nanocomposites by electrochemically active biofilms. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	35
38	Quantum size effect in the photoluminescence properties of p-type semiconducting transparent CuAlO2 nanoparticles. <i>Journal of Applied Physics</i> , 2012 , 112, 114329	2.5	20
37	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
36	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
35	The design, fabrication, and photocatalytic utility of nanostructured semiconductors: focus on TiO2-based nanostructures. <i>Nanotechnology, Science and Applications</i> , 2011 , 4, 35-65	3.9	164
34	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

33	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	
32	High-speed droplet actuation on single-plate electrode arrays. <i>Journal of Colloid and Interface Science</i> , 2011 , 362, 567-74	9.3	31	
31	Wet-chemical dip-coating preparation of highly oriented copper luminum oxide thin film and its opto-electrical characterization. <i>Physica B: Condensed Matter</i> , 2011 , 406, 220-224	2.8	13	
30	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	
29	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	
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	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	
26	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	
25	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	
24	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	
23	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	
22	Electro-optical properties of all-oxide p-CuAlO2/n-ZnO: Al transparent heterojunction thin film diode fabricated on glass substrate. <i>Open Physics</i> , 2008 , 6,	1.3	13	
21	Fabrication and characterization of all-oxide heterojunction p-CuAlO2+x/n-Zn1\(\text{NALXO}\) transparent diode for potential application in \(\text{Invisible}\) electronics\(\text{IThin Solid Films}\), \(2007\), \(515\), \(7324-7330\)	2.2	60	
20	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	
19	Implementation of complex nanosystems using a versatile ultrahigh vacuum nonlithographic technique. <i>Nanotechnology</i> , 2007 , 18, 445202	3.4	7	
18	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	
17	Size-dependent optical properties of sputter-deposited nanocrystalline p-type transparent CuAlO2 thin films. <i>Journal of Applied Physics</i> , 2005 , 97, 084308	2.5	110	
16	Thermoelectric properties and electrical characteristics of sputter-deposited p-CuAlO2 thin films. <i>Thin Solid Films</i> , 2005 , 474, 261-266	2.2	106	

15	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
14	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
13	Electro-optical characteristics and field-emission properties of reactive DC-sputtered p-CuAlO2+x thin films. <i>Physica B: Condensed Matter</i> , 2005 , 370, 264-276	2.8	42
12	Poole B renkel effect in nanocrystalline SnO2:F thin films prepared by a solgel dip-coating technique. <i>Physica Status Solidi A</i> , 2004 , 201, 983-989		38
11	Low-threshold field emission from transparent p-type conducting CuAlO2 thin film prepared by dc sputtering. <i>Applied Surface Science</i> , 2004 , 225, 243-249	6.7	54
10	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
9	Preparation of p-type transparent conducting CuAlO2 thin films by reactive DC sputtering. <i>Materials Letters</i> , 2004 , 58, 10-13	3.3	83
8	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
7	Synthesis and characterization of p-type transparent conducting CuAlO2 thin film by DC sputtering. <i>Thin Solid Films</i> , 2003 , 440, 5-10	2.2	128
6	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
5	Synthesis of boron-doped diamond films by DC plasma CVD using a CH4+CO2+H2 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
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	Synthesis of crystalline carbon nitride thin films by electrolysis of methanol@rea solution. <i>Materials Letters</i> , 2003 , 57, 2193-2197	3.3	68
2	Bioinspired tailoring of nanoarchitectured 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
1	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