

Dipali Banerjee

List of Publications by Year in descending order

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82
papers

1,797
citations

236925

25
h-index

289244

40
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82
all docs

82
docs citations

82
times ranked

2167
citing authors

#	ARTICLE	IF	CITATIONS
1	General strategies to improve thermoelectric performance with an emphasis on tin and germanium chalcogenides as thermoelectric materials. Journal of Materials Chemistry A, 2022, 10, 6872-6926.	10.3	26
2	Performance analysis of different dielectrics for solar cells with TOPCon structure. Journal of Computational Electronics, 2022, 21, 471-490.	2.5	1
3	Photoelectrochemical Performance of Tin Selenide (SnSe) Thin Films Prepared by Two Different Techniques. Electronic Materials Letters, 2022, 18, 381-390.	2.2	8
4	Polypyrrole and a polypyrrole/nickel oxide composite "single-walled carbon nanotube enhanced photocatalytic activity under visible light. New Journal of Chemistry, 2022, 46, 14065-14080.	2.8	5
5	Charge Transport Through Polypyrrole and Single-Walled Carbon Nanotube Composite: A Thermoelectric Material. Journal of Electronic Materials, 2022, 51, 5956-5964.	2.2	7
6	Polypyrrole-bismuth selenide (PPY-Bi ₂ Se ₃) composite-thermoelectric characterization and effect of nickel doping. Synthetic Metals, 2022, 289, 117119.	3.9	7
7	Composite of polypyrrole - Graphene hollow fibers mat-a flexible thermoelectric material. AIP Conference Proceedings, 2021, , .	0.4	0
8	Synthesis of multifunctional CdSe and Pd quantum dot decorated CdSe thin films for photocatalytic, electrocatalytic and thermoelectric applications. Surfaces and Interfaces, 2021, 25, 101149.	3.0	14
9	Relative humidity sensing properties of doped polyaniline-encased multiwall carbon nanotubes: wearable and flexible human respiration monitoring application. Journal of Materials Science, 2020, 55, 3884-3901.	3.7	37
10	Visible-light active electrochemically deposited tin selenide thin films: synthesis, characterization and photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2020, 31, 4708-4718.	2.2	16
11	Polyaniline/Reduced Graphene Oxide Composite-Enhanced Visible-Light-Driven Photocatalytic Activity for the Degradation of Organic Dyes. ACS Omega, 2019, 4, 1623-1635.	3.5	112
12	Electrodeposition of tin selenide thin film, a high temperature thermoelectric material. AIP Conference Proceedings, 2019, , .	0.4	5
13	Thermoelectric properties of nanostructured bismuth telluride (Bi ₂ Te ₃) with annealing time and its composite with reduced graphene oxide (RGO). Journal of Materials Science: Materials in Electronics, 2019, 30, 1850-1860.	2.2	12
14	Visible-light influenced photocatalytic activity of polyaniline -bismuth selenide composites for the degradation of methyl orange, rhodamine B and malachite green dyes. Applied Surface Science, 2019, 470, 472-483.	6.1	58
15	Nickel doped graphitic carbon nitride nanosheets and its application for dye degradation by chemical catalysis. Materials Research Bulletin, 2018, 101, 291-304.	5.2	66
16	Lithium assisted enhanced hydrogenation of reduced graphene oxide-PANI nanocomposite at room temperature. Diamond and Related Materials, 2018, 84, 103-111.	3.9	9
17	Salt leaching technique for the synthesis of porous poly(2,5-benzimidazole) (ABPBI) membranes for fuel cell application. Journal of Applied Polymer Science, 2018, 135, 45773.	2.6	15
18	Aspect ratio dependent cold cathode emission from vertically aligned hydrophobic silicon nanowires. Materials Research Bulletin, 2018, 97, 232-237.	5.2	14

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19	Thermoelectric Performance of Polypyrrole and Single Walled Carbon Nanotube Composite. <i>Materials Today: Proceedings</i> , 2018, 5, 9743-9748.	1.8	7
20	Composite of polyanilineâ€bismuth selenide with enhanced thermoelectric performance. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46887.	2.6	35
21	Portable smart highly proton conductive all inorganic gel paste electrolyte with optimum phosphorous to silicon ratio for enhanced durable operation of a fuel cell. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1737-1748.	4.9	4
22	Enhancement of Thermoelectric Performance in Oligomeric PEDOTâ€SWCNT Nanocomposite via Band Gap Tuning. <i>ChemistrySelect</i> , 2018, 3, 8992-8997.	1.5	9
23	Facile synthesis of aluminium doped zinc oxide-polyaniline hybrids for photoluminescence and enhanced visible-light assisted photo-degradation of organic contaminants. <i>Applied Surface Science</i> , 2017, 402, 418-428.	6.1	74
24	Effect of cobalt doping into graphitic carbon nitride on photo induced removal of dye from water. <i>Materials Research Bulletin</i> , 2017, 89, 170-179.	5.2	49
25	Enhanced photo catalytic performance of nickel doped bismuth selenide under visible light irradiation. <i>Materials Research Express</i> , 2017, 4, 035902.	1.6	9
26	Facile synthesis and thermoelectric properties of aluminum doped zinc oxide/polyaniline (AZO/PANI) hybrid. <i>Synthetic Metals</i> , 2017, 228, 25-31.	3.9	23
27	Effect of nickel doping on thermoelectric properties of Bismuth selenide. , 2017, , .		5
28	Grapheneâ€Rich Gaâ€Coâ€Ni Nanomatrix: An Optimized Heterogeneous Catalyst for Hydrogen Generation Based on Morphologyâ€Performance Mapping. <i>ChemistrySelect</i> , 2017, 2, 4309-4319.	1.5	2
29	Enhanced thermoelectric performance of n-type bismuth selenide doped with nickel. <i>Current Applied Physics</i> , 2017, 17, 1609-1615.	2.4	27
30	Polyanilineâ€single walled carbon nanotube composite â€ a photocatalyst to degrade rose bengal and methyl orange dyes under visible-light illumination. <i>RSC Advances</i> , 2017, 7, 36403-36415.	3.6	86
31	Remarkable photo-catalytic degradation of malachite green by nickel doped bismuth selenide under visible light irradiation. <i>Applied Surface Science</i> , 2017, 392, 540-548.	6.1	57
32	Process dependent thermoelectric properties of EDTA assisted bismuth telluride. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	4
33	Effect of solvent on nanostructure and thermoelectric properties of bismuth. <i>Indian Journal of Physics</i> , 2016, 90, 557-562.	1.8	5
34	Data for phase angle shift with frequency. <i>Data in Brief</i> , 2016, 7, 1389-1392.	1.0	0
35	All-amorphous CNT-MnO ₂ nanoflaky hybrid for improved supercapacitor applications. <i>Journal of Electroanalytical Chemistry</i> , 2016, 778, 12-22.	3.8	61
36	Composite of single walled carbon nanotube and sulfosalicylic acid doped polyaniline: a thermoelectric material. <i>Materials Research Express</i> , 2016, 3, 085009.	1.6	29

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37	Novel graphene supported Co rich connected core(Pt)-shell(Co) nano-alloy catalyst for improved hydrogen generation and electro-oxidation. International Journal of Hydrogen Energy, 2016, 41, 18451-18464.	7.1	15
38	Amorphous CNT/MnO ₂ nanohybrid for improved energy storage applications. , 2016, , .		1
39	Infradian rhythmicity in egg production features in relation to antioxidant profiles of Rhode Island Red (RIR) birds reared at backyard in different agroclimatic zones of West Bengal during summer stress. Biological Rhythm Research, 2016, 47, 659-667.	0.9	0
40	Galvanic synthesis of Cu ₂ XSe thin films and their photocatalytic and thermoelectric properties. Applied Surface Science, 2016, 369, 525-534.	6.1	50
41	Facile electrochemical deposition of Cu ₇ Te ₄ thin films with visible-light driven photocatalytic activity and thermoelectric performance. RSC Advances, 2016, 6, 22803-22811.	3.6	46
42	Unique combination of zero-dimensional carbon-titania hybrid for cold cathode application. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 74, 244-250.	2.7	1
43	Improved photoluminescence property of CTAB assisted polyaniline-AlZnO nanocomposite. AIP Conference Proceedings, 2015, , .	0.4	1
44	Effect of different surfactants and thicknesses on electrodeposited films of bismuth telluride and its thermoelectric performance. Materials Research Express, 2015, 2, 106403.	1.6	9
45	Novel bimetallic graphene-cobalt-nickel (G-Co-Ni) nano-ensemble electrocatalyst for enhanced borohydride oxidation. International Journal of Hydrogen Energy, 2015, 40, 1760-1773.	7.1	37
46	Conductivity of phosphoric acid: an in situ comparative study of proton in phosphoric acid fuel cell. Ionics, 2015, 21, 2583-2590.	2.4	10
47	Reduced graphene oxide-polyaniline composites synthesis, characterization and optimization for thermoelectric applications. RSC Advances, 2015, 5, 31039-31048.	3.6	190
48	Phosphosilicate gel-polybenzimidazole nanocomposite novel membrane for fuel cell application. International Journal of Plastics Technology, 2014, 18, 403-408.	3.1	7
49	Analysis of Drying and Dilution in Phosphoric Acid Fuel Cell (PAFC) Using Galvanometric Study and Electrochemical Impedance Spectroscopy. Journal of Fuel Cell Science and Technology, 2014, 11, .	0.8	12
50	Thermoelectric performance of electrodeposited nanostructured polyaniline doped with sulfosalicylic acid. Journal of Applied Polymer Science, 2014, 131, .	2.6	15
51	Hydrogen storage on graphene using Benkeser reaction. International Journal of Energy Research, 2014, 38, 1889-1895.	4.5	25
52	Graphene supported bimetallic G-Co-Pt nanohybrid catalyst for enhanced and cost effective hydrogen generation. International Journal of Hydrogen Energy, 2014, 39, 11566-11577.	7.1	51
53	Reduction of graphene oxide through a green and metal-free approach using formic acid. Diamond and Related Materials, 2013, 37, 74-79.	3.9	40
54	Synthesis, characterization and enhanced thermoelectric performance of structurally ordered cable-like novel polyaniline-bismuth telluride nanocomposite. Nanotechnology, 2013, 24, 215703.	2.6	92

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55	Morphology dependent ammonia sensing with 5-sulfosalicylic acid doped nanostructured polyaniline synthesized by several routes. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 544-550.	7.8	26
56	Reduced Order Inferential Model-Based Optimization of a Phosphoric Acid Fuel Cell (PAFC) Stack. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 7104-7115.	3.7	3
57	Performance enhancement of phosphoric acid fuel cell by using phosphosilicate gel based electrolyte. <i>Journal of Fuel Chemistry and Technology</i> , 2012, 40, 707-713.	2.0	11
58	Bismuth nitrate doped polyaniline – Characterization and properties for thermoelectric application. <i>Synthetic Metals</i> , 2011, 161, 275-279.	3.9	35
59	Electric field induced dewetting and pattern formation in thin conducting polymer film. <i>Sensors and Actuators B: Chemical</i> , 2010, 144, 170-175.	7.8	14
60	Microcontroller based Power Efficient Signal Conditioning Unit for Detection of a Single Gas using MEMS based Sensor. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2010, 3, 771-782.	0.7	6
61	Synthesis and characterization of an electro-deposited polyaniline-bismuth telluride nanocomposite – A novel thermoelectric material. <i>Materials Characterization</i> , 2009, 60, 1597-1601.	4.4	44
62	Effect of pH on Structural and Electrical Properties of Electrodeposited Bi ₂ Te ₃ Thin Films. <i>Journal of Electronic Materials</i> , 2009, 38, 449-452.	2.2	24
63	Studies on Nanocrystalline Ag ₂ Se. <i>Materials and Manufacturing Processes</i> , 2006, 21, 694-697.	4.7	4
64	An electrochemical technique to deposit thin films of PbTe. <i>Thin Solid Films</i> , 2006, 515, 1255-1259.	1.8	22
65	Transverse magnetoresistance of single crystals of bismuth doped with gallium and indium. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 268, 140-146.	2.3	2
66	Explanation of the conductivity minimum in tin- and tellurium-doped bismuth. <i>Physical Review B</i> , 1995, 51, 1420-1424.	3.2	3
67	Role of boron in the structural and electronic properties of hydrogenated silicon films deposited by r.f. magnetron sputtering. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1995, 71, 115-125.	0.6	2
68	Electronic and Structural Characterisation of Boron-Doped Hydrogenated Silicon Thin and Ultrathin Films Prepared by RF Magnetron Sputtering. <i>Japanese Journal of Applied Physics</i> , 1994, 33, 42-50.	1.5	2
69	Change of sign of hall coefficient with variation of magnetic field in acceptor doped Bi. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 141, 357-362.	2.1	3
70	Electrical properties of bismuth doped with tin and lead. <i>Journal of the Less Common Metals</i> , 1988, 144, 15-22.	0.8	4
71	Longterm treatment of hypertension with penbutolol. <i>Journal of the Association of Physicians of India</i> , The, 1984, 32, 473-5.	0.0	1
72	Theoretical Analysis on Flame Stabilization by a Bluff-Body. <i>Combustion Science and Technology</i> , 1977, 17, 153-162.	2.3	45

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73	Discussion of Plating Stresses from Electroless Nickel Deposition on Beryllium [R. M. Shemanski, J. G. Beach, and R. E. Maringer (pp. 402-409, Vol. 116, No. 3)]. Journal of the Electrochemical Society, 1970, 117, 1614.	2.9	0
74	Virological and serological study of an epidemic of fever at Burnpur—a preliminary report. Bulletin of the Calcutta School of Tropical Medicine, 1970, 18, 78-9.	0.0	0
75	Studies in hard rubber reaction. Part II. Effect of organic accelerators. Journal of Applied Polymer Science, 1965, 9, 1367-1384.	2.6	3
76	Studies in hard rubber reaction. Part III. Effect of metallic oxides and metallic oxide-accelerator combinations. Journal of Applied Polymer Science, 1965, 9, 1731-1742.	2.6	5
77	Studies in hard rubber reaction. Part IV. Effect of fillers. Journal of Applied Polymer Science, 1965, 9, 2285-2296.	2.6	3
78	Thiol group formation in the vulcanization of natural rubber. Journal of Applied Polymer Science, 1964, 8, 2261-2268.	2.6	3
79	Studies of the Hard Rubber Reaction. I. Heat of Reaction. Rubber Chemistry and Technology, 1963, 36, 1059-1070.	1.2	2
80	Determination of Thiazole Type of Rubber Accelerators by Amperometric Titration. Rubber Chemistry and Technology, 1962, 35, 665-670.	1.2	4
81	Studies in hard rubber reaction. Part I. Heat of hard rubber reaction. Journal of Applied Polymer Science, 1962, 6, 674-682.	2.6	9
82	Application of differential thermal analysis in hard rubber reactions. Journal of Applied Polymer Science, 1960, 4, 366-367.	2.6	17