Dipali Banerjee

List of Publications by Year
in descending order

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82	1,797	236925 25	289244 40
papers	citations	h-index	g-index

82	82	82	2167
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reduced graphene oxide-polyaniline compositesâ€"synthesis, characterization and optimization for thermoelectric applications. RSC Advances, 2015, 5, 31039-31048.	3.6	190
2	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
3	Synthesis, characterization and enhanced thermoelectric performance of structurally ordered cable-like novel polyanilineâ€"bismuth telluride nanocomposite. Nanotechnology, 2013, 24, 215703.	2.6	92
4	Polyanilineâ€"single walled carbon nanotube composite â€" a photocatalyst to degrade rose bengal and methyl orange dyes under visible-light illumination. RSC Advances, 2017, 7, 36403-36415.	3.6	86
5	Facile synthesis of aluminium doped zinc oxide-polyaniline hybrids for photoluminescence and enhanced visible-light assisted photo-degradation of organic contaminants. Applied Surface Science, 2017, 402, 418-428.	6.1	74
6	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
7	All-amorphous CNT-MnO2 nanoflaky hybrid for improved supercapacitor applications. Journal of Electroanalytical Chemistry, 2016, 778, 12-22.	3.8	61
8	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
9	Remarkable photo-catalytic degradation of malachite green by nickel doped bismuth selenide under visible light irradiation. Applied Surface Science, 2017, 392, 540-548.	6.1	57
10	Graphene supported bimetallic Gâ€"Coâ€"Pt nanohybrid catalyst for enhanced and cost effective hydrogen generation. International Journal of Hydrogen Energy, 2014, 39, 11566-11577.	7.1	51
11	Galvanic synthesis of Cu 2â^'X Se thin films and their photocatalytic and thermoelectric properties. Applied Surface Science, 2016, 369, 525-534.	6.1	50
12	Effect of cobalt doping into graphitic carbon nitride on photo induced removal of dye from water. Materials Research Bulletin, 2017, 89, 170-179.	5.2	49
13	Facile electrochemical deposition of Cu₇Te₄ thin films with visible-light driven photocatalytic activity and thermoelectric performance. RSC Advances, 2016, 6, 22803-22811.	3.6	46
14	Theoretical Analysis on Flame Stabilization by a Bluff-Body. Combustion Science and Technology, 1977, 17, 153-162.	2.3	45
15	Synthesis and characterization of an electro-deposited polyaniline-bismuth telluride nanocomposite â€" A novel thermoelectric material. Materials Characterization, 2009, 60, 1597-1601.	4.4	44
16	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
17	Novel bimetallic grapheneâ€"cobaltâ€"nickel (Gâ€"Coâ€"Ni) nano-ensemble electrocatalyst for enhanced borohydride oxidation. International Journal of Hydrogen Energy, 2015, 40, 1760-1773.	7.1	37
18	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

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19	Bismuth nitrate doped polyaniline â€“ Characterization and properties for thermoelectric application. Synthetic Metals, 2011, 161, 275-279.	3.9	35
20	Composite of polyanilineâ€bismuth selenide with enhanced thermoelectric performance. Journal of Applied Polymer Science, 2018, 135, 46887.	2.6	35
21	Composite of single walled carbon nanotube and sulfosalicylic acid doped polyaniline: a thermoelectric material. Materials Research Express, 2016, 3, 085009.	1.6	29
22	Enhanced thermoelectric performance of n-type bismuth selenide doped with nickel. Current Applied Physics, 2017, 17, 1609-1615.	2.4	27
23	Morphology dependent ammonia sensing with 5-sulfosalicylic acid doped nanostructured polyaniline synthesized by several routes. Sensors and Actuators B: Chemical, 2013, 181, 544-550.	7.8	26
24	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
25	Hydrogen storage on graphene using Benkeser reaction. International Journal of Energy Research, 2014, 38, 1889-1895.	4.5	25
26	Effect of pH on Structural and Electrical Properties of Electrodeposited Bi2Te3 Thin Films. Journal of Electronic Materials, 2009, 38, 449-452.	2.2	24
27	Facile synthesis and thermoelectric properties of aluminum doped zinc oxide/polyaniline (AZO/PANI) hybrid. Synthetic Metals, 2017, 228, 25-31.	3.9	23
28	An electrochemical technique to deposit thin films of PbTe. Thin Solid Films, 2006, 515, 1255-1259.	1.8	22
29	Application of differential thermal analysis in hard rubber reactions. Journal of Applied Polymer Science, 1960, 4, 366-367.	2.6	17
30	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
31	Thermoelectric performance of electrodeposited nanostructured polyaniline doped with sulfoâ€salicylic acid. Journal of Applied Polymer Science, 2014, 131, .	2.6	15
32	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
33	Saltâ€leaching technique for the synthesis of porous poly(2,5â€benzimidazole) (ABPBI) membranes for fuel cell application. Journal of Applied Polymer Science, 2018, 135, 45773.	2.6	15
34	Electric field induced dewetting and pattern formation in thin conducting polymer film. Sensors and Actuators B: Chemical, 2010, 144, 170-175.	7.8	14
35	Aspect ratio dependent cold cathode emission from vertically aligned hydrophobic silicon nanowires. Materials Research Bulletin, 2018, 97, 232-237.	5.2	14
36	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

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37	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
38	Thermoelectric properties of nanostructured bismuth telluride (Bi2Te3) 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
39	Performance enhancement of phosphoric acid fuel cell by using phosphosilicate gel based electrolyte. Journal of Fuel Chemistry and Technology, 2012, 40, 707-713.	2.0	11
40	Conductivity of phosphoric acid: an in situ comparative study of proton in phosphoric acid fuel cell. Ionics, 2015, 21, 2583-2590.	2.4	10
41	Studies in hard rubber reaction. Part I. Heat of hard rubber reaction. Journal of Applied Polymer Science, 1962, 6, 674-682.	2.6	9
42	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
43	Enhanced photo catalytic performance of nickel doped bismuth selenide under visible light irradiation. Materials Research Express, 2017, 4, 035902.	1.6	9
44	Lithium assisted enhanced hydrogenation of reduced graphene oxide-PANI nanocomposite at room temperature. Diamond and Related Materials, 2018, 84, 103-111.	3.9	9
45	Enhancement of Thermoelectric Performance in Oligomeric PEDOTâ€SWCNT Nanocomposite via Band Gap Tuning. ChemistrySelect, 2018, 3, 8992-8997.	1.5	9
46	Photoelectrochemical Performance of Tin Selenide (SnSe) Thin Films Prepared by Two Different Techniques. Electronic Materials Letters, 2022, 18, 381-390.	2.2	8
47	Phosphosilicate gel-polybenzimidazole nanocomposite novel membrane for fuel cell application. International Journal of Plastics Technology, 2014, 18, 403-408.	3.1	7
48	Thermoelectric Performance of Polypyrrole and Single Walled Carbon Nanotube Composite. Materials Today: Proceedings, 2018, 5, 9743-9748.	1.8	7
49	Charge Transport Through Polypyrrole and Single-Walled Carbon Nanotube Composite: A Thermoelectric Material. Journal of Electronic Materials, 2022, 51, 5956-5964.	2.2	7
50	Polypyrrole-bismuth selenide (PPY-Bi2Se3) composite-thermoelectric characterization and effect of nickel doping. Synthetic Metals, 2022, 289, 117119.	3.9	7
51	Microcontroller based Power Efficient Signal Conditioning Unit for Detection of a Single Gas using MEMS based Sensor. International Journal on Smart Sensing and Intelligent Systems, 2010, 3, 771-782.	0.7	6
52	Studies in hard rubber reaction. Part III. Effect of metallic oxides and metallic oxideâ€“accelerator combinations. Journal of Applied Polymer Science, 1965, 9, 1731-1742.	2.6	5
53	Effect of solvent on nanostructure and thermoelectric properties of bismuth. Indian Journal of Physics, 2016, 90, 557-562.	1.8	5
54	Effect of nickel doping on thermoelectric properties of Bismuth selenide. , 2017, , .		5

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55	Electrodeposition of tin selenide thin film, a high temperature thermoelectric material. AIP Conference Proceedings, 2019, , .	0.4	5
56	Polypyrrole and a polypyrrole/nickel oxide composite â€“ single-walled carbon nanotube enhanced photocatalytic activity under visible light. New Journal of Chemistry, 2022, 46, 14065-14080.	2.8	5
57	Determination of Thiazole Type of Rubber Accelerators by Amperometric Titration. Rubber Chemistry and Technology, 1962, 35, 665-670.	1.2	4
58	Electrical properties of bismuth doped with tin and lead. Journal of the Less Common Metals, 1988, 144, 15-22.	0.8	4
59	Studies on Nanocrystalline Ag2Se. Materials and Manufacturing Processes, 2006, 21, 694-697.	4.7	4
60	Process dependent thermoelectric properties of EDTA assisted bismuth telluride. AIP Conference Proceedings, 2016, , .	0.4	4
61	Portable smart highly proton conductive all inorganic gel paste electrolyte with optimum phosphorous to silicon ratio for enhanced durable operation of a fuel cell. Sustainable Energy and Fuels, 2018, 2, 1737-1748.	4.9	4
62	Thiol group formation in the vulcanization of natural rubber. Journal of Applied Polymer Science, 1964, 8, 2261-2268.	2.6	3
63	Studies in hard rubber reaction. Part II. Effect of organic accelerators. Journal of Applied Polymer Science, 1965, 9, 1367-1384.	2.6	3
64	Studies in hard rubber reaction. Part IV. Effect of fillers. Journal of Applied Polymer Science, 1965, 9, 2285-2296.	2.6	3
65	Change of sign of hall coefficient with variation of magnetic field in acceptor doped Bi. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 141, 357-362.	2.1	3
66	Explanation of the conductivity minimum in tin- and tellurium-doped bismuth. Physical Review B, 1995, 51, 1420-1424.	3.2	3
67	Reduced Order Inferential Model-Based Optimization of a Phosphoric Acid Fuel Cell (PAFC) Stack. Industrial & Engineering Chemistry Research, 2013, 52, 7104-7115.	3.7	3
68	Studies of the Hard Rubber Reaction. I. Heat of Reaction. Rubber Chemistry and Technology, 1963, 36, 1059-1070.	1.2	2
69	Electronic and Structural Characterisation of Boron-Doped Hydrogenated Silicon Thin and Ultrathin Films Prepared by RF Magnetron Sputtering. Japanese Journal of Applied Physics, 1994, 33, 42-50.	1.5	2
70	Role of boron in the structural and electronic properties of hydrogenated silicon films deposited by r.f. magnetron sputtering. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1995, 71, 115-125.	0.6	2
71	Transverse magnetoresistance of single crystals of bismuth doped with gallium and indium. Journal of Magnetism and Magnetic Materials, 2004, 268, 140-146.	2.3	2
72	Grapheneâ€Rich Gâ€Coâ€Ni Nanomatrix: An Optimized Heterogeneous Catalyst for Hydrogen Generation Based on Morphologyâ€Performance Mapping. ChemistrySelect, 2017, 2, 4309-4319.	1.5	2

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73	Unique combination of zeroâ€“oneâ€“two dimensional carbonâ€“titania hybrid for cold cathode application. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 74, 244-250.	2.7	1
74	Improved photoluminescence property of CTAB assisted polyaniline-AlZnO nanocomposite. AIP Conference Proceedings, 2015, , .	0.4	1
75	Amorphous CNT/MnO<inf>2</inf> nanohybrid for improved energy storage applications. , 2016, , .		1
76	Longterm treatment of hypertension with penbutolol. Journal of the Association of Physicians of India, The, 1984, 32, 473-5.	0.0	1
77	Performance analysis of different dielectrics for solar cells with TOPCon structure. Journal of Computational Electronics, 2022, 21, 471-490.	2.5	1
78	Discussion of â€œPlating Stresses from Electroless Nickel Deposition on Berylliumâ€•[R. M. Shemenski, J. G. Beach, and R. E. Maringer (pp. 402â€“409, Vol. 116, No. 3)]. Journal of the Electrochemical Society, 1970, 117, 1614.	2.9	0
79	Data for phase angle shift with frequency. Data in Brief, 2016, 7, 1389-1392.	1.0	0
80	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
81	Composite of polypyrrole - Graphene hollow fibers mat-a flexible thermoelectric material. AIP Conference Proceedings, 2021, , .	0.4	0
82	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