Rajendra C Pawar

List of Publications by Year
in descending order

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69 papers	3,028 citations	126907 33 h-index	161849 54 g-index
69 all docs	69 docs citations	69 times ranked	4129 citing authors

#	Article	IF	Citations
1	Hybrid photocatalysts using graphitic carbon nitride/cadmium sulfide/reduced graphene oxide (g-C₃N₄/CdS/RGO) for superior photodegradation of organic pollutants under UV and visible light. Dalton Transactions, 2014, 43, 12514-12527.	3.3	233
2	Single-step sensitization of reduced graphene oxide sheets and CdS nanoparticles on ZnO nanorods as visible-light photocatalysts. Applied Catalysis B: Environmental, 2014, 144, 57-65.	20.2	197
3	Room-temperature synthesis of nanoporous 1D microrods of graphitic carbon nitride (g-C3N4) with highly enhanced photocatalytic activity and stability. Scientific Reports, 2016, 6, 31147.	3.3	172
4	Synthesis and characterization of Ru doped CuO thin films for supercapacitor based on Bronsted acidic ionic liquid. Electrochimica Acta, 2011, 56, 2127-2134.	5.2	148
5	Gold nanoparticle modified graphitic carbon nitride/multi-walled carbon nanotube (g-C₃N₄/CNTs/Au) hybrid photocatalysts for effective water splitting and degradation. RSC Advances, 2015, 5, 24281-24292.	3.6	134
6	Surfactant assisted low temperature synthesis of nanocrystalline ZnO and its gas sensing properties. Sensors and Actuators B: Chemical, 2010, 151, 212-218.	7.8	102
7	CuOâ€“PAA hybrid films: Chemical synthesis and supercapacitor behavior. Applied Surface Science, 2011, 257, 4389-4397.	6.1	99
8	Formation of polar surfaces in microstructured ZnO by doping with Cu and applications in photocatalysis using visible light. Materials Chemistry and Physics, 2015, 151, 167-180.	4.0	83
9	Synthesis of multi-dimensional ZnO nanostructures in aqueous medium for the application of gas sensor. Sensors and Actuators B: Chemical, 2013, 187, 323-330.	7.8	81
10	Nanostructured SnO2 thin films for NO2 gas sensing applications. Ceramics International, 2013, 39, 8673-8679.	4.8	76
11	Size-controlled BiOClâ€“RGO composites having enhanced photodegradative properties. Journal of Experimental Nanoscience, 2016, 11, 259-275.	2.4	70
12	Low temperature aqueous chemical synthesis of CdS sensitized ZnO nanorods. Materials Letters, 2011, 65, 548-551.	2.6	66
13	Photoluminescence of zinc oxide nanopowder synthesized by a combustion method. Powder Technology, 2011, 208, 185-188.	4.2	66
14	Growth of ZnO nanodisk, nanospindles and nanoflowers for gas sensor: pH dependency. Current Applied Physics, 2012, 12, 778-783.	2.4	66
15	Microstructural, optical and electrical transport properties of WO3 nanoparticles coated polypyrrole hybrid nanocomposites. Synthetic Metals, 2015, 199, 187-195.	3.9	65
16	Ultra-thin coating of g-C₃N₄ on an aligned ZnO nanorod film for rapid charge separation and improved photodegradation performance. RSC Advances, 2016, 6, 89944-89952.	3.6	62
17	Aqueous chemical growth of ZnO disks, rods, spindles and flowers: pH dependency and photoelectrochemical properties. Solar Energy, 2011, 85, 1119-1127.	6.1	57
18	Ethanol sensing properties of chemosynthesized CdO nanowires and nanowalls. Materials Letters, 2011, 65, 1488-1491.	2.6	55

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19	Integration of ZnO with g-C3N4 structures in coreâ€“shell approach via sintering process for rapid detoxification of water under visible irradiation. Current Applied Physics, 2016, 16, 101-108.	2.4	52
20	Sensitization of CdS nanoparticles onto reduced graphene oxide (RGO) fabricated by chemical bath deposition method for effective removal of Cr(VI). Materials Chemistry and Physics, 2013, 141, 686-693.	4.0	51
21	Polypyrroleâ€“NiO hybrid nanocomposite films: highly selective, sensitive, and reproducible NO2 sensors. Ionics, 2014, 20, 1607-1616.	2.4	50
22	Evaluation of a multi-dimensional hybrid photocatalyst for enrichment of H₂ evolution and elimination of dye/non-dye pollutants. Catalysis Science and Technology, 2017, 7, 2579-2590.	4.1	49
23	Synthesis of cadmium sulfide spongy balls with nanoconduits for effective light harvesting. Electrochimica Acta, 2011, 56, 2762-2768.	5.2	47
24	Optical and magnetic properties of Ni doped ZnO planetary ball milled nanopowder synthesized by co-precipitation. Ceramics International, 2014, 40, 16799-16804.	4.8	46
25	Fabrication of nanocomposite photocatalysts from zinc oxide nanostructures and reduced graphene oxide. Current Applied Physics, 2013, 13, S50-S57.	2.4	45
26	Polymer assisted deposition of electrochromic tungsten oxide thin films. Journal of Alloys and Compounds, 2010, 493, 335-339.	5.5	40
27	Supercapacitor behavior of CuOâ€“PAA hybrid films: Effect of PAA concentration. Journal of Alloys and Compounds, 2011, 509, 7168-7174.	5.5	39
28	Polyanilineâ€“CdS nanocomposites: effect of camphor sulfonic acid doping on structural, microstructural, optical and electrical properties. Journal of Materials Science: Materials in Electronics, 2012, 23, 2104-2109.	2.2	39
29	Reduced graphene oxide composites with MWCNTs and single crystalline hematite nanorhombohedra for applications in water purification. International Journal of Hydrogen Energy, 2015, 40, 767-778.	7.1	39
30	Novel method of fabrication of polyanilineâ€“CdS nanocomposites: Structural, morphological and optoelectronic properties. Ceramics International, 2012, 38, 3999-4007.	4.8	36
31	Nanocrystalline SnO2 thin films: Structural, morphological, electrical transport and optical studies. Journal of Alloys and Compounds, 2013, 563, 300-306.	5.5	36
32	Low temperature fabrication of Fe₂O₃ nanorod film coated with ultra-thin g-C₃N₄ for a direct z-scheme exerting photocatalytic activities. RSC Advances, 2018, 8, 33600-33613.	3.6	35
33	From nanowires to cubes of CdO: Ethanol gas response. Journal of Alloys and Compounds, 2011, 509, 1035-1039.	5.5	33
34	Effect of Bi doping on structural, morphological, optical and ethanol vapor response properties of SnO2 nanoparticles. Materials Science in Semiconductor Processing, 2014, 27, 121-129.	4.0	33
35	In situ reduction and exfoliation of g-C₃N₄ nanosheets with copious active sites via a thermal approach for effective water splitting. Catalysis Science and Technology, 2019, 9, 1004-1012.	4.1	33
36	Dye sensitized solar cells based on zinc oxide bottle brush. Materials Letters, 2011, 65, 2235-2237.	2.6	32

#	Article	IF	Citations
37	Farming of ZnO nanorod-arrays via aqueous chemical route for photoelectrochemical solar cell application. Ceramics International, 2012, 38, 6461-6467.	4.8	30
38	Defect-controlled growth of ZnO nanostructures using its different zinc precursors and their application for effective photodegradation. Current Applied Physics, 2014, 14, 621-629.	2.4	30
39	Few-layered metallic 1T-MoS₂/TiO₂ with exposed (001) facets: two-dimensional nanocomposites for enhanced photocatalytic activities. Physical Chemistry Chemical Physics, 2017, 19, 28207-28215.	2.8	28
40	Synthesis and characterization of highly stable optically passive CeO2â€“ZrO2 counter electrode. Electrochimica Acta, 2010, 55, 1900-1906.	5.2	27
41	Gas sensing performance of hydrothermally grown CeO2â€“ZnO composites. Ceramics International, 2014, 40, 5837-5842.	4.8	27
42	Study of effect of planetary ball milling on ZnO nanopowder synthesized by co-precipitation. Journal of Alloys and Compounds, 2014, 617, 404-407.	5.5	26
43	Decoration of Au nanoparticles onto BiOCl sheets for enhanced photocatalytic performance under visible irradiation for the degradation of RhB dye. Journal of Experimental Nanoscience, 2016, 11, 853-871.	2.4	25
44	Characterization of zinc oxide nanoparticles synthesized by polymer assisted deposition method. Journal of Alloys and Compounds, 2011, 509, 1716-1721.	5.5	22
45	Effect of annealing on the supercapacitor performance of CuO-PAA/CNT films. Journal of Solid State Electrochemistry, 2012, 16, 25-33.	2.5	22
46	Improved field emission and photocatalysis properties of cacti-like zinc oxide nanostructures. Scripta Materialia, 2013, 68, 142-145.	5.2	19
47	Solvent-polarity-induced hematite (Î±-Fe2O3) nanostructures for lithium-ion battery and photoelectrochemical applications. Electrochimica Acta, 2017, 245, 643-653.	5.2	19
48	Aqueous chemical route deposition of nanocrystalline ZnO thin films as acetone sensor: Effect of molarity. Ceramics International, 2013, 39, 87-92.	4.8	16
49	Structural, morphological, and gas response properties of citrate gel synthesized nanocrystalline ZnO and Zn0.9Cd0.1O materials. Ceramics International, 2013, 39, 4383-4390.	4.8	15
50	Electrospun one-dimensional graphitic carbon nitride-coated carbon hybrid nanofibers (GCN/CNFs) for photoelectrochemical applications. Current Applied Physics, 2018, 18, 1006-1012.	2.4	13
51	Stable and magnetically reusable nanoporous magnetite micro/nanospheres for rapid extraction of carcinogenic contaminants from water. RSC Advances, 2016, 6, 34297-34311.	3.6	11
52	Photocatalytic evaluation of self-assembled porous network structure of ferric oxide film fabricated by dry deposition process. Materials Chemistry and Physics, 2016, 181, 241-247.	4.0	11
53	Direct coating of a g-C₃N₄ layer onto one-dimensional TiO₂ nanocluster/nanorod films for photoactive applications. Dalton Transactions, 2018, 47, 7237-7244.	3.3	11
54	Study of multi-faceted CoS2 introduced graphene aerogel hybrids via chemical approach for an effective electrocatalytic water splitting. Current Applied Physics, 2021, 32, 78-85.	2.4	11

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55	Surfactant mediated growth of ZnO nanostructures and their dye sensitized solar cell properties. Journal of Materials Science: Materials in Electronics, 2012, 23, 349-355.	2.2	10
56	Simple coating method of carbonaceous film onto copper nanopowder using PVP as solid carbon source. Materials Chemistry and Physics, 2014, 148, 859-867.	4.0	10
57	Synthesis, characterization and LPG response of Pd loaded Fe doped tin oxide thick films. Journal of Alloys and Compounds, 2014, 608, 133-140.	5.5	10
58	Role of TiO2 nanoparticles in the dry deposition of NiO micro-sized particles at room temperature. Ceramics International, 2015, 41, 5937-5944.	4.8	9
59	Basics of Photocatalysis. , 2015, , 1-23.		9
60	Minimization of Recombination Losses in 3D Nanostructured TiO2 Coated with Few Layered g-C3N4 for Extended Photo-response. Journal of the Korean Ceramic Society, 2016, 53, 393-399.	2.3	9
61	Dielectric properties of solâ€“gel synthesized SrTiO3/(Ba0.7Sr0.3)TiO3 and SrTiO3/Ba(Zr0.3Ti0.7)O3 thin film heterostructures. Journal of Materials Science: Materials in Electronics, 2013, 24, 1308-1318.	2.2	8
62	Photocatalytic evaluation of ATO/TiO2 heterojunction films fabricated by a nanoparticle deposition system. Materials Chemistry and Physics, 2018, 203, 118-124.	4.0	8
63	ZnO cacti. Materials Today, 2011, 14, 447.	14.2	5
64	Synthesis of CdS with Graphene by CBD(Chemical Bath Deposition) Method and Its Photocatalytic Activity. Korean Journal of Materials Research, 2012, 22, 504-507.	0.2	5
65	Magnetocapacitance and impedance spectroscopy of Ba0.7Sr0.3TiO3/La0.67Sr0.33MnO3 and Ba0.8Sr0.2TiO3/La0.67Sr0.33MnO3 thin film heterostructures. Journal of Sol-Gel Science and Technology, 2014, 70, 346-354.	2.4	4
66	Influence of Various Solâ€“Gel Parameters on the Physicoâ€Chemical Properties of Sulfuric Acid Chelated Zirconia Aerogels Dried at Ambient Pressure. Macromolecular Symposia, 2020, 393, 2000025.	0.7	4
67	Heterogeneous Photocatalysts Based on Organic/Inorganic Semiconductor. , 2015, , 43-96.		3
68	Improved efficiency of dye-sensitized solar cell based on randomly ordered pore structure fabricated by dry deposition method. Current Applied Physics, 2017, 17, 433-441.	2.4	3
69	Oxidation Prevention Properties of Reduced Graphene Oxide Mixed with 1-Octanethiol-Coated Copper Nanopowder Composites. Journal of Nanomaterials, 2016, 2016, 1-8.	2.7	1