

# 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	Study of multi-faceted CoS <sub>2</sub> introduced graphene aerogel hybrids via chemical approach for an effective electrocatalytic water splitting. <i>Current Applied Physics</i> , 2021, 32, 78-85.	2.4	11
2	Influence of Various Sol-Gel Parameters on the Physico-Chemical Properties of Sulfuric Acid Chelated Zirconia Aerogels Dried at Ambient Pressure. <i>Macromolecular Symposia</i> , 2020, 393, 2000025.	0.7	4
3	<i>In situ</i> reduction and exfoliation of g-C <sub>3</sub> N <sub>4</sub> nanosheets with copious active sites <i>via</i> a thermal approach for effective water splitting. <i>Catalysis Science and Technology</i> , 2019, 9, 1004-1012.	4.1	33
4	Photocatalytic evaluation of ATO/TiO <sub>2</sub> heterojunction films fabricated by a nanoparticle deposition system. <i>Materials Chemistry and Physics</i> , 2018, 203, 118-124.	4.0	8
5	Low temperature fabrication of Fe <sub>2</sub> O <sub>3</sub> nanorod film coated with ultra-thin g-C <sub>3</sub> N <sub>4</sub> for a direct z-scheme exerting photocatalytic activities. <i>RSC Advances</i> , 2018, 8, 33600-33613.	3.6	35
6	Direct coating of a g-C <sub>3</sub> N <sub>4</sub> layer onto one-dimensional TiO <sub>2</sub> nanocluster/nanorod films for photoactive applications. <i>Dalton Transactions</i> , 2018, 47, 7237-7244.	3.3	11
7	Electrospun one-dimensional graphitic carbon nitride-coated carbon hybrid nanofibers (GCN/CNFs) for photoelectrochemical applications. <i>Current Applied Physics</i> , 2018, 18, 1006-1012.	2.4	13
8	Improved efficiency of dye-sensitized solar cell based on randomly ordered pore structure fabricated by dry deposition method. <i>Current Applied Physics</i> , 2017, 17, 433-441.	2.4	3
9	Evaluation of a multi-dimensional hybrid photocatalyst for enrichment of H <sub>2</sub> evolution and elimination of dye/non-dye pollutants. <i>Catalysis Science and Technology</i> , 2017, 7, 2579-2590.	4.1	49
10	Solvent-polarity-induced hematite (α-Fe <sub>2</sub> O <sub>3</sub> ) nanostructures for lithium-ion battery and photoelectrochemical applications. <i>Electrochimica Acta</i> , 2017, 245, 643-653.	5.2	19
11	Few-layered metallic 1T-MoS <sub>2</sub> /TiO <sub>2</sub> with exposed (001) facets: two-dimensional nanocomposites for enhanced photocatalytic activities. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28207-28215.	2.8	28
12	Oxidation Prevention Properties of Reduced Graphene Oxide Mixed with 1-Octanethiol-Coated Copper Nanopowder Composites. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-8.	2.7	1
13	Stable and magnetically reusable nanoporous magnetite micro/nanospheres for rapid extraction of carcinogenic contaminants from water. <i>RSC Advances</i> , 2016, 6, 34297-34311.	3.6	11
14	Decoration of Au nanoparticles onto BiOCl sheets for enhanced photocatalytic performance under visible irradiation for the degradation of RhB dye. <i>Journal of Experimental Nanoscience</i> , 2016, 11, 853-871.	2.4	25
15	Photocatalytic evaluation of self-assembled porous network structure of ferric oxide film fabricated by dry deposition process. <i>Materials Chemistry and Physics</i> , 2016, 181, 241-247.	4.0	11
16	Ultra-thin coating of g-C <sub>3</sub> N <sub>4</sub> on an aligned ZnO nanorod film for rapid charge separation and improved photodegradation performance. <i>RSC Advances</i> , 2016, 6, 89944-89952.	3.6	62
17	Room-temperature synthesis of nanoporous 1D microrods of graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) with highly enhanced photocatalytic activity and stability. <i>Scientific Reports</i> , 2016, 6, 31147.	3.3	172
18	Size-controlled BiOCl-RGO composites having enhanced photodegradative properties. <i>Journal of Experimental Nanoscience</i> , 2016, 11, 259-275.	2.4	70

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19	Integration of ZnO with g-C <sub>3</sub> N <sub>4</sub> structures in core-shell approach via sintering process for rapid detoxification of water under visible irradiation. <i>Current Applied Physics</i> , 2016, 16, 101-108.	2.4	52
20	Minimization of Recombination Losses in 3D Nanostructured TiO <sub>2</sub> Coated with Few Layered g-C <sub>3</sub> N <sub>4</sub> for Extended Photo-response. <i>Journal of the Korean Ceramic Society</i> , 2016, 53, 393-399.	2.3	9
21	Role of TiO <sub>2</sub> nanoparticles in the dry deposition of NiO micro-sized particles at room temperature. <i>Ceramics International</i> , 2015, 41, 5937-5944.	4.8	9
22	Basics of Photocatalysis. , 2015, , 1-23.		9
23	Gold nanoparticle modified graphitic carbon nitride/multi-walled carbon nanotube (g-C <sub>3</sub> N <sub>4</sub> /CNTs/Au) hybrid photocatalysts for effective water splitting and degradation. <i>RSC Advances</i> , 2015, 5, 24281-24292.	3.6	134
24	Heterogeneous Photocatalysts Based on Organic/Inorganic Semiconductor. , 2015, , 43-96.		3
25	Formation of polar surfaces in microstructured ZnO by doping with Cu and applications in photocatalysis using visible light. <i>Materials Chemistry and Physics</i> , 2015, 151, 167-180.	4.0	83
26	Microstructural, optical and electrical transport properties of WO <sub>3</sub> nanoparticles coated polypyrrole hybrid nanocomposites. <i>Synthetic Metals</i> , 2015, 199, 187-195.	3.9	65
27	Reduced graphene oxide composites with MWCNTs and single crystalline hematite nanorhombhedra for applications in water purification. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 767-778.	7.1	39
28	Gas sensing performance of hydrothermally grown CeO <sub>2</sub> -ZnO composites. <i>Ceramics International</i> , 2014, 40, 5837-5842.	4.8	27
29	Magnetocapacitance and impedance spectroscopy of Ba <sub>0.7</sub> Sr <sub>0.3</sub> TiO <sub>3</sub> /La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> and Ba <sub>0.8</sub> Sr <sub>0.2</sub> TiO <sub>3</sub> /La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> thin film heterostructures. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 70, 346-354.	2.4	4
30	Defect-controlled growth of ZnO nanostructures using its different zinc precursors and their application for effective photodegradation. <i>Current Applied Physics</i> , 2014, 14, 621-629.	2.4	30
31	Simple coating method of carbonaceous film onto copper nanopowder using PVP as solid carbon source. <i>Materials Chemistry and Physics</i> , 2014, 148, 859-867.	4.0	10
32	Effect of Bi doping on structural, morphological, optical and ethanol vapor response properties of SnO <sub>2</sub> nanoparticles. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 121-129.	4.0	33
33	Study of effect of planetary ball milling on ZnO nanopowder synthesized by co-precipitation. <i>Journal of Alloys and Compounds</i> , 2014, 617, 404-407.	5.5	26
34	Optical and magnetic properties of Ni doped ZnO planetary ball milled nanopowder synthesized by co-precipitation. <i>Ceramics International</i> , 2014, 40, 16799-16804.	4.8	46
35	Hybrid photocatalysts using graphitic carbon nitride/cadmium sulfide/reduced graphene oxide (g-C <sub>3</sub> N <sub>4</sub> /CdS/RGO) for superior photodegradation of organic pollutants under UV and visible light. <i>Dalton Transactions</i> , 2014, 43, 12514-12527.	3.3	233
36	Polypyrrole-NiO hybrid nanocomposite films: highly selective, sensitive, and reproducible NO <sub>2</sub> sensors. <i>Ionics</i> , 2014, 20, 1607-1616.	2.4	50

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37	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
38	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
39	Aqueous chemical route deposition of nanocrystalline ZnO thin films as acetone sensor: Effect of molarity. Ceramics International, 2013, 39, 87-92.	4.8	16
40	Dielectric properties of sol-gel synthesized SrTiO <sub>3</sub> /(Ba <sub>0.7</sub> Sr <sub>0.3</sub> )TiO <sub>3</sub> and SrTiO <sub>3</sub> /Ba(Zr <sub>0.3</sub> Ti <sub>0.7</sub> )O <sub>3</sub> thin film heterostructures. Journal of Materials Science: Materials in Electronics, 2013, 24, 1308-1318.	2.2	8
41	Structural, morphological, and gas response properties of citrate gel synthesized nanocrystalline ZnO and Zn <sub>0.9</sub> Cd <sub>0.1</sub> O materials. Ceramics International, 2013, 39, 4383-4390.	4.8	15
42	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
43	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
44	Nanostructured SnO <sub>2</sub> thin films for NO <sub>2</sub> gas sensing applications. Ceramics International, 2013, 39, 8673-8679.	4.8	76
45	Improved field emission and photocatalysis properties of cacti-like zinc oxide nanostructures. Scripta Materialia, 2013, 68, 142-145.	5.2	19
46	Nanocrystalline SnO <sub>2</sub> thin films: Structural, morphological, electrical transport and optical studies. Journal of Alloys and Compounds, 2013, 563, 300-306.	5.5	36
47	Fabrication of nanocomposite photocatalysts from zinc oxide nanostructures and reduced graphene oxide. Current Applied Physics, 2013, 13, S50-S57.	2.4	45
48	Farming of ZnO nanorod-arrays via aqueous chemical route for photoelectrochemical solar cell application. Ceramics International, 2012, 38, 6461-6467.	4.8	30
49	Polyaniline-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
50	Growth of ZnO nanodisk, nanospindles and nanoflowers for gas sensor: pH dependency. Current Applied Physics, 2012, 12, 778-783.	2.4	66
51	Novel method of fabrication of polyaniline-CdS nanocomposites: Structural, morphological and optoelectronic properties. Ceramics International, 2012, 38, 3999-4007.	4.8	36
52	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
53	Effect of annealing on the supercapacitor performance of CuO-PAA/CNT films. Journal of Solid State Electrochemistry, 2012, 16, 25-33.	2.5	22
54	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

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55	From nanowires to cubes of CdO: Ethanol gas response. <i>Journal of Alloys and Compounds</i> , 2011, 509, 1035-1039.	5.5	33
56	Characterization of zinc oxide nanoparticles synthesized by polymer assisted deposition method. <i>Journal of Alloys and Compounds</i> , 2011, 509, 1716-1721.	5.5	22
57	Supercapacitor behavior of CuO@PAA hybrid films: Effect of PAA concentration. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7168-7174.	5.5	39
58	Low temperature aqueous chemical synthesis of CdS sensitized ZnO nanorods. <i>Materials Letters</i> , 2011, 65, 548-551.	2.6	66
59	Ethanol sensing properties of chemosynthesized CdO nanowires and nanowalls. <i>Materials Letters</i> , 2011, 65, 1488-1491.	2.6	55
60	Dye sensitized solar cells based on zinc oxide bottle brush. <i>Materials Letters</i> , 2011, 65, 2235-2237.	2.6	32
61	ZnO cacti. <i>Materials Today</i> , 2011, 14, 447.	14.2	5
62	CuO@PAA hybrid films: Chemical synthesis and supercapacitor behavior. <i>Applied Surface Science</i> , 2011, 257, 4389-4397.	6.1	99
63	Synthesis and characterization of Ru doped CuO thin films for supercapacitor based on Bronsted acidic ionic liquid. <i>Electrochimica Acta</i> , 2011, 56, 2127-2134.	5.2	148
64	Synthesis of cadmium sulfide spongy balls with nanoconduits for effective light harvesting. <i>Electrochimica Acta</i> , 2011, 56, 2762-2768.	5.2	47
65	Photoluminescence of zinc oxide nanopowder synthesized by a combustion method. <i>Powder Technology</i> , 2011, 208, 185-188.	4.2	66
66	Aqueous chemical growth of ZnO disks, rods, spindles and flowers: pH dependency and photoelectrochemical properties. <i>Solar Energy</i> , 2011, 85, 1119-1127.	6.1	57
67	Surfactant assisted low temperature synthesis of nanocrystalline ZnO and its gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2010, 151, 212-218.	7.8	102
68	Synthesis and characterization of highly stable optically passive CeO <sub>2</sub> @ZrO <sub>2</sub> counter electrode. <i>Electrochimica Acta</i> , 2010, 55, 1900-1906.	5.2	27
69	Polymer assisted deposition of electrochromic tungsten oxide thin films. <i>Journal of Alloys and Compounds</i> , 2010, 493, 335-339.	5.5	40