

Sambhaji S Shinde

List of Publications by Year in descending order

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111
papers

6,481
citations

50276

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times ranked

7475
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable 3-D Carbon Nitride Sponge as an Efficient Metal-Free Bifunctional Oxygen Electrocatalyst for Rechargeable Zn-Air Batteries. ACS Nano, 2017, 11, 347-357.	14.6	369
2	In-situ reconstructed Ru atom array on γ -MnO ₂ with enhanced performance for acidic water oxidation. Nature Catalysis, 2021, 4, 1012-1023.	34.4	324
3	Unveiling dual-linkage 3D hexaminobenzene metal-organic frameworks towards long-lasting advanced reversible Zn-air batteries. Energy and Environmental Science, 2019, 12, 727-738.	30.8	300
4	Enhanced activity of chemically synthesized hybrid graphene oxide/Mn ₃ O ₄ composite for high performance supercapacitors. Electrochimica Acta, 2013, 92, 205-215.	5.2	226
5	Temperature influence on morphological progress of Ni(OH) ₂ thin films and its subsequent effect on electrochemical supercapacitive properties. Journal of Materials Chemistry A, 2013, 1, 4793.	10.3	185
6	Structural, morphological, electrical and magnetic properties of Dy doped Ni-Co substitutional spinel ferrite. Journal of Magnetism and Magnetic Materials, 2013, 329, 59-64.	2.3	185
7	Development of CZTS thin films solar cells by pulsed laser deposition: Influence of pulse repetition rate. Solar Energy, 2011, 85, 1354-1363.	6.1	161
8	Hierarchically Designed 3D Holey C ₂ N Aerogels as Bifunctional Oxygen Electrodes for Flexible and Rechargeable Zn-Air Batteries. ACS Nano, 2018, 12, 596-608.	14.6	159
9	Physical properties of hematite γ -Fe ₂ O ₃ thin films: application to photoelectrochemical solar cells. Journal of Semiconductors, 2011, 32, 013001.	3.7	158
10	Ampere-hour-scale zinc-air pouch cells. Nature Energy, 2021, 6, 592-604.	39.5	149
11	Studies of compositional dependent CZTS thin film solar cells by pulsed laser deposition technique: An attempt to improve the efficiency. Journal of Alloys and Compounds, 2012, 544, 145-151.	5.5	137
12	Electrocatalytic hydrogen evolution using graphitic carbon nitride coupled with nanoporous graphene co-doped by S and Se. Journal of Materials Chemistry A, 2015, 3, 12810-12819.	10.3	124
13	Sensing properties of sprayed antimony doped tin oxide thin films: Solution molarity. Journal of Alloys and Compounds, 2011, 509, 3108-3115.	5.5	123
14	Zinc oxide mediated heterogeneous photocatalytic degradation of organic species under solar radiation. Journal of Photochemistry and Photobiology B: Biology, 2011, 104, 425-433.	3.8	120
15	Structural and optoelectronic properties of antimony incorporated tin oxide thin films. Journal of Alloys and Compounds, 2010, 505, 416-422.	5.5	116
16	Synthesis and characterization of Cu ₂ ZnSnS ₄ thin films grown by PLD: Solar cells. Journal of Alloys and Compounds, 2011, 509, 7439-7446.	5.5	115
17	Structural, optoelectronic, luminescence and thermal properties of Ga-doped zinc oxide thin films. Applied Surface Science, 2012, 258, 9969-9976.	6.1	110
18	Densely colonized isolated Cu-N single sites for efficient bifunctional electrocatalysts and rechargeable advanced Zn-air batteries. Applied Catalysis B: Environmental, 2020, 268, 118746.	20.2	110

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19	Photocatalytic degradation of toluene using sprayed N-doped ZnO thin films in aqueous suspension. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012, 113, 70-77.	3.8	102
20	Nitrogen and Phosphorus Doped Nanoporous Graphene/Graphitic Carbon Nitride Hybrids as Efficient Electrocatalysts for Hydrogen Evolution. <i>ChemCatChem</i> , 2015, 7, 3873-3880.	3.7	99
21	Physical properties of transparent and conducting sprayed fluorine doped zinc oxide thin films. <i>Solid State Sciences</i> , 2008, 10, 1209-1214.	3.2	92
22	Optoelectronic properties of sprayed transparent and conducting indium doped zinc oxide thin films. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 105109.	2.8	91
23	Visible light catalysis of rhodamine B using nanostructured Fe ₂ O ₃ , TiO ₂ and TiO ₂ /Fe ₂ O ₃ thin films. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 133, 90-98.	3.8	90
24	Electrical and dielectric properties of co-precipitated nanocrystalline tin oxide. <i>Journal of Alloys and Compounds</i> , 2010, 505, 743-749.	5.5	82
25	Fabrication and performance of N-doped ZnO UV photoconductive detector. <i>Journal of Alloys and Compounds</i> , 2012, 522, 118-122.	5.5	81
26	Nanostructured SnS-N-doped graphene as an advanced electrocatalyst for the hydrogen evolution reaction. <i>Chemical Communications</i> , 2015, 51, 15716-15719.	4.1	80
27	Influence of tin doping onto structural, morphological, optoelectronic and impedance properties of sprayed ZnO thin films. <i>Journal of Alloys and Compounds</i> , 2013, 551, 688-693.	5.5	79
28	Structural, morphological, dielectrical, magnetic and impedance properties of Co _{1-x} MnxFe ₂ O ₄ . <i>Journal of Alloys and Compounds</i> , 2013, 555, 330-334.	5.5	79
29	Sulfur mediated graphitic carbon nitride/S-Se-graphene as a metal-free hybrid photocatalyst for pollutant degradation and water splitting. <i>Carbon</i> , 2016, 96, 929-936.	10.3	78
30	In situ directional formation of Co@CoO _x -embedded 1D carbon nanotubes as an efficient oxygen electrocatalyst for ultra-high rate Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13994-14002.	10.3	74
31	Highly active and durable carbon nitride fibers as metal-free bifunctional oxygen electrodes for flexible Zn-air batteries. <i>Nanoscale Horizons</i> , 2017, 2, 333-341.	8.0	73
32	Physical properties of sprayed antimony doped tin oxide thin films: The role of thickness. <i>Journal of Semiconductors</i> , 2011, 32, 053001.	3.7	70
33	Photo-corrosion inhibition and photoactivity enhancement with tailored zinc oxide thin films. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012, 110, 15-21.	3.8	68
34	Porous CuO nanosheet clusters prepared by a surfactant assisted hydrothermal method for high performance supercapacitors. <i>RSC Advances</i> , 2013, 3, 24099.	3.6	68
35	Nanostructured TiO ₂ thin film memristor using hydrothermal process. <i>Journal of Alloys and Compounds</i> , 2014, 593, 267-270.	5.5	63
36	Mössbauer, Raman, and Magnetoresistance Study of Aluminum-Based Iron Oxide Thin Films. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3731-3736.	3.1	61

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37	High-performance UV detector based on Ga-doped zinc oxide thin films. <i>Applied Surface Science</i> , 2011, 257, 9595-9599.	6.1	61
38	Fast response ultraviolet Ga-doped ZnO based photoconductive detector. <i>Materials Research Bulletin</i> , 2011, 46, 1734-1737.	5.2	60
39	Self-assembled air-stable magnesium hydride embedded in 3-D activated carbon for reversible hydrogen storage. <i>Nanoscale</i> , 2017, 9, 7094-7103.	5.6	60
40	Solid-State Rechargeable Zinc-Air Battery with Long Shelf Life Based on Nanoengineered Polymer Electrolyte. <i>ChemSusChem</i> , 2018, 11, 3215-3224.	6.8	55
41	Long-Life Rechargeable Zn Air Battery Based on Binary Metal Carbide Armored by Nitrogen-Doped Carbon. <i>ACS Applied Energy Materials</i> , 2019, 2, 1747-1755.	5.1	53
42	Heuristic Iron-Cobalt-Mediated Robust pH-Universal Oxygen Bifunctional Lusters for Reversible Aqueous and Flexible Solid-State Zn-Air Cells. <i>ACS Nano</i> , 2021, 15, 14683-14696.	14.6	51
43	Effect of calcining temperature on electrical and dielectric properties of cadmium stannate. <i>Applied Surface Science</i> , 2009, 255, 6675-6678.	6.1	50
44	Structural, compositional and electrical properties of co-precipitated zinc stannate. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7508-7514.	5.5	50
45	Photoelectrochemical properties of highly mobilized Li-doped ZnO thin films. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 120, 1-9.	3.8	50
46	Physical properties of spray deposited CdTe thin films: PEC performance. <i>Journal of Semiconductors</i> , 2011, 32, 033001.	3.7	49
47	Physical properties of spray deposited Ni-doped zinc oxide thin films. <i>Ceramics International</i> , 2013, 39, 3901-3907.	4.8	46
48	Preparation, thermoluminescent and electron spin resonance characteristics of LiF:Mg,Cu,P phosphor. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 2683-2689.	2.8	45
49	Photocatalytic oxidation of Rhodamine B with ferric oxide thin films under solar illumination. <i>Materials Research Bulletin</i> , 2013, 48, 4058-4065.	5.2	42
50	UV assisted photoelectrocatalytic oxidation of phthalic acid using spray deposited Al doped zinc oxide thin films. <i>Journal of Alloys and Compounds</i> , 2014, 611, 446-451.	5.5	42
51	Influence of substrates on photoelectrochemical performance of sprayed n-CdIn ₂ S ₄ electrodes. <i>Solar Energy</i> , 2010, 84, 1208-1215.	6.1	41
52	Influences in high quality zinc oxide films and their photoelectrochemical performance. <i>Journal of Alloys and Compounds</i> , 2010, 503, 416-421.	5.5	39
53	Photocatalytic oxidation of salicylic acid and 4-chlorophenol in aqueous solutions mediated by modified AlFe ₂ O ₃ catalyst under sunlight. <i>Journal of Molecular Catalysis A</i> , 2011, 347, 65-72.	4.8	39
54	One step hydrothermal synthesis of micro-belts like β -Ni(OH) ₂ thin films for supercapacitors. <i>Ceramics International</i> , 2013, 39, 7255-7261.	4.8	38

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55	Oxidative degradation of acid orange 7 using Ag-doped zinc oxide thin films. Journal of Photochemistry and Photobiology B: Biology, 2012, 117, 262-268.	3.8	37
56	Fabrication of ZnFe ₂ O ₄ films and its application in photoelectrocatalytic degradation of salicylic acid. Journal of Photochemistry and Photobiology B: Biology, 2015, 142, 118-123.	3.8	35
57	Photoelectrocatalytic degradation of oxalic acid by spray deposited nanocrystalline zinc oxide thin films. Journal of Alloys and Compounds, 2012, 538, 237-243.	5.5	34
58	High-voltage asymmetric metal-air batteries based on polymeric single-Zn ²⁺ -ion conductor. Matter, 2021, 4, 1287-1304.	10.0	34
59	Effect of write voltage and frequency on the reliability aspects of memristor-based RRAM. International Nano Letters, 2017, 7, 209-216.	5.0	33
60	Hydroxyl radical's role in the remediation of wastewater. Journal of Photochemistry and Photobiology B: Biology, 2012, 116, 66-74.	3.8	31
61	Photoelectrocatalytic oxidation of Rhodamine B with sprayed Fe ₂ O ₃ ; photocatalyst. Materials Express, 2013, 3, 247-255.	0.5	31
62	Flexible and rechargeable Zn-air batteries based on green feedstocks with 75% round-trip efficiency. Sustainable Energy and Fuels, 2017, 1, 1909-1914.	4.9	30
63	Structural, morphological, luminescent and electronic properties of sprayed aluminium incorporated iron oxide thin films. Surface and Coatings Technology, 2011, 205, 3567-3577.	4.8	29
64	Electron Transfer within Complex II. Journal of Biological Chemistry, 2005, 280, 33331-33337.	3.4	28
65	Electron-phonon interaction and size effect study in catalyst based zinc oxide thin films. Journal of Molecular Structure, 2010, 984, 186-193.	3.6	27
66	X-ray photoelectron spectroscopic study of catalyst based zinc oxide thin films. Journal of Alloys and Compounds, 2011, 509, 4603-4607.	5.5	27
67	Electrical and dielectric properties of silicon substituted cobalt ferrites. Materials Letters, 1998, 37, 63-67.	2.6	26
68	Photodegradation of organic pollutants using N-titanium oxide catalyst. Journal of Photochemistry and Photobiology B: Biology, 2014, 141, 186-191.	3.8	26
69	Investigation of structural, optical and luminescent properties of sprayed N-doped zinc oxide thin films. Journal of Analytical and Applied Pyrolysis, 2012, 97, 181-188.	5.5	25
70	Modelling of nanostructured TiO ₂ -based memristors. Journal of Semiconductors, 2015, 36, 034001.	3.7	25
71	Structural and optoelectronic properties of sprayed Sb:SnO ₂ thin films: Effects of substrate temperature and nozzle-to-substrate distance. Journal of Semiconductors, 2011, 32, 102001.	3.7	23
72	Structural, optical, electrical and thermal properties of zinc oxide thin films by chemical spray pyrolysis. Journal of Molecular Structure, 2012, 1021, 123-129.	3.6	23

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73	Effect of Co doping on structural, morphological and LPG sensing properties of nanocrystalline ZnO thin films. <i>Sensors and Actuators A: Physical</i> , 2014, 216, 328-334.	4.1	23
74	Mimicking the Biological Synapse Functions of Analog Memory, Synaptic Weights, and Forgetting with ZnO-Based Memristive Devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 7758-7766.	0.9	23
75	Bulk Magnetic Properties of Cobalt Ferrite Doped with Si ⁴⁺ Ions. <i>Journal of Materials Science Letters</i> , 1998, 17, 849-851.	0.5	21
76	Structural, morphological, dielectrical and magnetic properties of Mn substituted cobalt ferrite. <i>Journal of Semiconductors</i> , 2013, 34, 093002.	3.7	20
77	Enhanced photocatalytic activity of sprayed Au doped ferric oxide thin films for salicylic acid degradation in aqueous medium. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 142, 43-50.	3.8	20
78	Photoelectrochemical performance of sprayed n-CdIn ₂ Se ₄ photoanodes. <i>Solar Energy</i> , 2011, 85, 325-333.	6.1	19
79	Semiconducting properties of aluminum-doped ZnO thin films grown by spray pyrolysis technique. <i>Journal of Semiconductors</i> , 2015, 36, 033002.	3.7	19
80	Lanthanides-based graphene catalysts for high performance hydrogen evolution and oxygen reduction. <i>Electrochimica Acta</i> , 2016, 214, 173-181.	5.2	19
81	Oxidative degradation of industrial wastewater using spray deposited TiO ₂ /Au:Fe ₂ O ₃ bilayered thin films. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 141, 315-324.	3.8	18
82	Identification of drought in Dhalai river watershed using MCDM and ANN models. <i>Journal of Earth System Science</i> , 2017, 126, 1.	1.3	18
83	Spatio-temporal analysis and estimation of rainfall variability in and around upper Godavari River basin, India. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	1.3	18
84	Studies on morphological and electrical properties of Al incorporated combusted iron oxide. <i>Journal of Alloys and Compounds</i> , 2011, 509, 3943-3951.	5.5	17
85	The n-CdIn ₂ Se ₄ /p-CdTe heterojunction solar cells. <i>Solar Energy</i> , 2011, 85, 1336-1342.	6.1	17
86	Size dependent electron-phonon coupling in N, Li, In, Ga, F and Ag doped ZnO thin films. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 98, 453-456.	3.9	17
87	Structural, Morphological, Optical and Photoluminescence Properties of Ag-Doped Zinc Oxide Thin Films. <i>Materials Express</i> , 2012, 2, 64-70.	0.5	16
88	Oriented colloidal-crystal thin films of polystyrene spheres via spin coating. <i>Journal of Semiconductors</i> , 2015, 36, 023001.	3.7	15
89	Magnetic properties of the mixed spinel Co _{1+x} Si _x Fe _{2-2x} O ₄ . <i>Bulletin of Materials Science</i> , 1998, 21, 409-413.	1.7	14
90	Investigation of structural, morphological, luminescent and thermal properties of combusted aluminium-based iron oxide. <i>Journal of Solid State Chemistry</i> , 2010, 183, 2886-2894.	2.9	14

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91	Photoelectrocatalytic hydrolysis of starch by using sprayed ZnO thin films. Journal of Semiconductors, 2013, 34, 053001.	3.7	14
92	Photoelectrocatalytic activity of ferric oxide nanocatalyst: A synergistic effect of thickness. Ceramics International, 2014, 40, 9463-9471.	4.8	14
93	Physical properties of chemical vapour deposited nanostructured carbon thin films. Journal of Alloys and Compounds, 2011, 509, 1418-1423.	5.5	13
94	Spin synthesis of monolayer of SiO ₂ thin films. Journal of Semiconductors, 2015, 36, 043002.	3.7	13
95	Remediation of wastewater: Role of hydroxyl radicals. Journal of Photochemistry and Photobiology B: Biology, 2014, 141, 210-216.	3.8	10
96	Planar n-Si/PEDOT:PSS hybrid heterojunction solar cells utilizing functionalized carbon nanoparticles synthesized via simple pyrolysis route. Nanotechnology, 2017, 28, 475402.	2.6	10
97	Investigating the Temperature Effects on ZnO, TiO ₂ , WO ₃ and HfO ₂ Based Resistive Random Access Memory (RRAM) Devices. Journal of Nano- and Electronic Physics, 2016, 8, 04030-1-04030-4.	0.5	10
98	Structural, morphological and electrical properties of spray deposited CdIn ₂ Se ₄ thin films. Journal of Alloys and Compounds, 2011, 509, 3116-3121.	5.5	9
99	Cost effective facile synthesis of TiO ₂ nanograins for flexible DSSC application using rose bengal dye. Electronic Materials Letters, 2014, 10, 943-950.	2.2	9
100	Photocatalytic degradation of RhB and TNT and photocatalytic water splitting with CZTS microparticles. Journal of Semiconductors, 2015, 36, 073003.	3.7	9
101	Effect of interfacial passivation on inverted pyramid silicon/poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) heterojunction solar cells. Thin Solid Films, 2020, 709, 138139.	1.8	9
102	Remarkable improvements in the performance and stability of Si photoanodes adopting nanocrystalline NiOx electrocatalyst and stoichiometric SiO ₂ protection. Applied Surface Science, 2019, 493, 1150-1158.	6.1	7
103	Spatio-temporal Variability of Discharge Over the Past 40 Years in Krishna and Koyna Rivers, India. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2020, 44, 395-407.	1.9	6
104	Semiconductor-septum solar rechargeable storage cells. Journal of Alloys and Compounds, 2011, 509, 1305-1309.	5.5	5
105	Solar light assisted photocatalysis of water using a zinc oxide semiconductor. Journal of Semiconductors, 2013, 34, 043002.	3.7	5
106	Reply to "Comments on "Optoelectronic properties of sprayed transparent and conducting indium doped zinc oxide thin films". Journal Physics D: Applied Physics, 2008, 41, 228002.	2.8	3
107	Photoelectrocatalytic activity of spray deposited ZnO thin films against E. coli Davis. Materials Research Innovations, 2012, 16, 417-424.	2.3	3
108	Synthesis of polypyrrole thin film by SILAR method for supercapacitor application. , 2013, , .		2

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109	Studies on the synthesis and characterization of co-precipitated nanocrystalline Zn ²⁺ Pb ²⁺ O. Journal of Molecular Structure, 2014, 1064, 130-134.	3.6	2
110	A semiconductor junction photoelectrochemical device without a depletion region. Nanoscale, 2019, 11, 23013-23020.	5.6	2
111	Bipolar Energetics and Bifunctional Catalytic Activity of a Nanocrystalline Ru Thin-Film Enable High-Performance Photoelectrochemical Water Reduction and Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 16402-16410.	8.0	2