

Sambhaji S Shinde

List of Publications by Year in descending order

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111
papers

6,481
citations

50276

46
h-index

69250

77
g-index

113
all docs

113
docs citations

113
times ranked

7475
citing authors

#	ARTICLE	IF	CITATIONS
1	Ampere-hour-scale zinc-air pouch cells. <i>Nature Energy</i> , 2021, 6, 592-604.	39.5	149
2	High-voltage asymmetric metal-air batteries based on polymeric single-Zn ²⁺ -ion conductor. <i>Matter</i> , 2021, 4, 1287-1304.	10.0	34
3	Heuristic Iron-Cobalt-Mediated Robust pH-Universal Oxygen Bifunctional Catalysts for Reversible Aqueous and Flexible Solid-State Zn-Air Cells. <i>ACS Nano</i> , 2021, 15, 14683-14696.	14.6	51
4	In-situ reconstructed Ru atom array on γ -MnO ₂ with enhanced performance for acidic water oxidation. <i>Nature Catalysis</i> , 2021, 4, 1012-1023.	34.4	324
5	Effect of interfacial passivation on inverted pyramid silicon/poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) heterojunction solar cells. <i>Thin Solid Films</i> , 2020, 709, 138139.	1.8	9
6	Bipolar Energetics and Bifunctional Catalytic Activity of a Nanocrystalline Ru Thin-Film Enable High-Performance Photoelectrochemical Water Reduction and Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16402-16410.	8.0	2
7	Spatio-temporal Variability of Discharge Over the Past 40 Years in Krishna and Koyna Rivers, India. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2020, 44, 395-407.	1.9	6
8	Densely colonized isolated Cu-N single sites for efficient bifunctional electrocatalysts and rechargeable advanced Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118746.	20.2	110
9	Remarkable improvements in the performance and stability of Si photoanodes adopting nanocrystalline NiOx electrocatalyst and stoichiometric SiO ₂ protection. <i>Applied Surface Science</i> , 2019, 493, 1150-1158.	6.1	7
10	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
11	Unveiling dual-linkage 3D hexaminobenzene metal-organic frameworks towards long-lasting advanced reversible Zn-air batteries. <i>Energy and Environmental Science</i> , 2019, 12, 727-738.	30.8	300
12	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
13	A semiconductor junction photoelectrochemical device without a depletion region. <i>Nanoscale</i> , 2019, 11, 23013-23020.	5.6	2
14	Hierarchically Designed 3D Holey C ₂ N Aerogels as Bifunctional Oxygen Electrodes for Flexible and Rechargeable Zn-Air Batteries. <i>ACS Nano</i> , 2018, 12, 596-608.	14.6	159
15	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
16	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
17	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
18	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

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19	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
20	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
21	Scalable 3-D Carbon Nitride Sponge as an Efficient Metal-Free Bifunctional Oxygen Electrocatalyst for Rechargeable Zn-Air Batteries. <i>ACS Nano</i> , 2017, 11, 347-357.	14.6	369
22	Effect of write voltage and frequency on the reliability aspects of memristor-based RRAM. <i>International Nano Letters</i> , 2017, 7, 209-216.	5.0	33
23	Flexible and rechargeable Zn-air batteries based on green feedstocks with 75% round-trip efficiency. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1909-1914.	4.9	30
24	Planar n-Si/PEDOT:PSS hybrid heterojunction solar cells utilizing functionalized carbon nanoparticles synthesized via simple pyrolysis route. <i>Nanotechnology</i> , 2017, 28, 475402.	2.6	10
25	Lanthanides-based graphene catalysts for high performance hydrogen evolution and oxygen reduction. <i>Electrochimica Acta</i> , 2016, 214, 173-181.	5.2	19
26	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
27	Investigating the Temperature Effects on ZnO, TiO ₂ , WO ₃ and HfO ₂ Based Resistive Random Access Memory (RRAM) Devices. <i>Journal of Nano- and Electronic Physics</i> , 2016, 8, 04030-1-04030-4.	0.5	10
28	Spin synthesis of monolayer of SiO ₂ thin films. <i>Journal of Semiconductors</i> , 2015, 36, 043002.	3.7	13
29	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
30	Semiconducting properties of aluminum-doped ZnO thin films grown by spray pyrolysis technique. <i>Journal of Semiconductors</i> , 2015, 36, 033002.	3.7	19
31	Oriented colloidal-crystal thin films of polystyrene spheres via spin coating. <i>Journal of Semiconductors</i> , 2015, 36, 023001.	3.7	15
32	Photocatalytic degradation of RhB and TNT and photocatalytic water splitting with CZTS microparticles. <i>Journal of Semiconductors</i> , 2015, 36, 073003.	3.7	9
33	Electrocatalytic hydrogen evolution using graphitic carbon nitride coupled with nanoporous graphene co-doped by S and Se. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12810-12819.	10.3	124
34	Modelling of nanostructured TiO ₂ -based memristors. <i>Journal of Semiconductors</i> , 2015, 36, 034001.	3.7	25
35	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
36	Fabrication of ZnFe ₂ O ₄ films and its application in photoelectrocatalytic degradation of salicylic acid. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 142, 118-123.	3.8	35

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37	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
38	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
39	Nanostructured TiO ₂ thin film memristor using hydrothermal process. <i>Journal of Alloys and Compounds</i> , 2014, 593, 267-270.	5.5	63
40	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
41	Photodegradation of organic pollutants using N-titanium oxide catalyst. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 141, 186-191.	3.8	26
42	Remediation of wastewater: Role of hydroxyl radicals. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 141, 210-216.	3.8	10
43	Cost effective facile synthesis of TiO ₂ nanograins for flexible DSSC application using rose bengal dye. <i>Electronic Materials Letters</i> , 2014, 10, 943-950.	2.2	9
44	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
45	Studies on the synthesis and characterization of co-precipitated nanocrystalline ZnO-PbO. <i>Journal of Molecular Structure</i> , 2014, 1064, 130-134.	3.6	2
46	Photoelectrocatalytic activity of ferric oxide nanocatalyst: A synergistic effect of thickness. <i>Ceramics International</i> , 2014, 40, 9463-9471.	4.8	14
47	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
48	Temperature influence on morphological progress of Ni(OH) ₂ thin films and its subsequent effect on electrochemical supercapacitive properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4793.	10.3	185
49	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
50	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
51	Structural, morphological, dielectrical and magnetic properties of Mn substituted cobalt ferrite. <i>Journal of Semiconductors</i> , 2013, 34, 093002.	3.7	20
52	Structural, morphological, electrical and magnetic properties of Dy doped Ni-Co substitutional spinel ferrite. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 329, 59-64.	2.3	185
53	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
54	Physical properties of spray deposited Ni-doped zinc oxide thin films. <i>Ceramics International</i> , 2013, 39, 3901-3907.	4.8	46

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55	Structural, morphological, dielectrical, magnetic and impedance properties of $\text{Co}_{1-x}\text{Mn}_x\text{Fe}_2\text{O}_4$. Journal of Alloys and Compounds, 2013, 555, 330-334.	5.5	79
56	Enhanced activity of chemically synthesized hybrid graphene oxide/ Mn_3O_4 composite for high performance supercapacitors. Electrochimica Acta, 2013, 92, 205-215.	5.2	226
57	Photoelectrochemical properties of highly mobilized Li-doped ZnO thin films. Journal of Photochemistry and Photobiology B: Biology, 2013, 120, 1-9.	3.8	50
58	Photoelectrocatalytic hydrolysis of starch by using sprayed ZnO thin films. Journal of Semiconductors, 2013, 34, 053001.	3.7	14
59	One step hydrothermal synthesis of micro-belts like $\text{Ni}(\text{OH})_2$ thin films for supercapacitors. Ceramics International, 2013, 39, 7255-7261.	4.8	38
60	Photoelectrocatalytic oxidation of Rhodamine B with sprayed Fe_2O_3 ; photocatalyst. Materials Express, 2013, 3, 247-255.	0.5	31
61	Synthesis of polypyrrole thin film by SILAR method for supercapacitor application. , 2013, , .		2
62	Solar light assisted photocatalysis of water using a zinc oxide semiconductor. Journal of Semiconductors, 2013, 34, 043002.	3.7	5
63	Photoelectrocatalytic activity of spray deposited ZnO thin films against <i>E. coli</i> Davis. Materials Research Innovations, 2012, 16, 417-424.	2.3	3
64	Structural, Morphological, Optical and Photoluminescence Properties of Ag-Doped Zinc Oxide Thin Films. Materials Express, 2012, 2, 64-70.	0.5	16
65	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
66	Hydroxyl radical's role in the remediation of wastewater. Journal of Photochemistry and Photobiology B: Biology, 2012, 116, 66-74.	3.8	31
67	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
68	Structural, optoelectronic, luminescence and thermal properties of Ga-doped zinc oxide thin films. Applied Surface Science, 2012, 258, 9969-9976.	6.1	110
69	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
70	Fabrication and performance of N-doped ZnO UV photoconductive detector. Journal of Alloys and Compounds, 2012, 522, 118-122.	5.5	81
71	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
72	Photocatalytic degradation of toluene using sprayed N-doped ZnO thin films in aqueous suspension. Journal of Photochemistry and Photobiology B: Biology, 2012, 113, 70-77.	3.8	102

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73	Investigation of structural, optical and luminescent properties of sprayed N-doped zinc oxide thin films. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 97, 181-188.	5.5	25
74	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
75	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
76	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
77	Physical properties of hematite Fe_2O_3 thin films: application to photoelectrochemical solar cells. <i>Journal of Semiconductors</i> , 2011, 32, 013001.	3.7	158
78	Semiconductor-septum solar rechargeable storage cells. <i>Journal of Alloys and Compounds</i> , 2011, 509, 1305-1309.	5.5	5
79	Physical properties of chemical vapour deposited nanostructured carbon thin films. <i>Journal of Alloys and Compounds</i> , 2011, 509, 1418-1423.	5.5	13
80	Sensing properties of sprayed antimony doped tin oxide thin films: Solution molarity. <i>Journal of Alloys and Compounds</i> , 2011, 509, 3108-3115.	5.5	123
81	Structural, morphological and electrical properties of spray deposited CdIn_2Se_4 thin films. <i>Journal of Alloys and Compounds</i> , 2011, 509, 3116-3121.	5.5	9
82	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
83	X-ray photoelectron spectroscopic study of catalyst based zinc oxide thin films. <i>Journal of Alloys and Compounds</i> , 2011, 509, 4603-4607.	5.5	27
84	Synthesis and characterization of $\text{Cu}_2\text{ZnSnS}_4$ thin films grown by PLD: Solar cells. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7439-7446.	5.5	115
85	Structural, compositional and electrical properties of co-precipitated zinc stannate. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7508-7514.	5.5	50
86	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
87	High-performance UV detector based on Ga-doped zinc oxide thin films. <i>Applied Surface Science</i> , 2011, 257, 9595-9599.	6.1	61
88	Photocatalytic oxidation of salicylic acid and 4-chlorophenol in aqueous solutions mediated by modified AlFe_2O_3 catalyst under sunlight. <i>Journal of Molecular Catalysis A</i> , 2011, 347, 65-72.	4.8	39
89	Fast response ultraviolet Ga-doped ZnO based photoconductive detector. <i>Materials Research Bulletin</i> , 2011, 46, 1734-1737.	5.2	60
90	Zinc oxide mediated heterogeneous photocatalytic degradation of organic species under solar radiation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011, 104, 425-433.	3.8	120

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91	Photoelectrochemical performance of sprayed n-CdIn ₂ Se ₄ photoanodes. Solar Energy, 2011, 85, 325-333.	6.1	19
92	The n-CdIn ₂ Se ₄ /p-CdTe heterojunction solar cells. Solar Energy, 2011, 85, 1336-1342.	6.1	17
93	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
94	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
95	Physical properties of spray deposited CdTe thin films: PEC performance. Journal of Semiconductors, 2011, 32, 033001.	3.7	49
96	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
97	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
98	Investigation of structural, morphological, luminescent and thermal properties of combusted aluminium-based iron oxide. Journal of Solid State Chemistry, 2010, 183, 2886-2894.	2.9	14
99	Influence of substrates on photoelectrochemical performance of sprayed n-CdIn ₂ S ₄ electrodes. Solar Energy, 2010, 84, 1208-1215.	6.1	41
100	Influences in high quality zinc oxide films and their photoelectrochemical performance. Journal of Alloys and Compounds, 2010, 503, 416-421.	5.5	39
101	Structural and optoelectronic properties of antimony incorporated tin oxide thin films. Journal of Alloys and Compounds, 2010, 505, 416-422.	5.5	116
102	Electrical and dielectric properties of co-precipitated nanocrystalline tin oxide. Journal of Alloys and Compounds, 2010, 505, 743-749.	5.5	82
103	Effect of calcining temperature on electrical and dielectric properties of cadmium stannate. Applied Surface Science, 2009, 255, 6675-6678.	6.1	50
104	Physical properties of transparent and conducting sprayed fluorine doped zinc oxide thin films. Solid State Sciences, 2008, 10, 1209-1214.	3.2	92
105	Optoelectronic properties of sprayed transparent and conducting indium doped zinc oxide thin films. Journal Physics D: Applied Physics, 2008, 41, 105109.	2.8	91
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	Electron Transfer within Complex II. Journal of Biological Chemistry, 2005, 280, 33331-33337.	3.4	28
108	Preparation, thermoluminescent and electron spin resonance characteristics of LiF:Mg,Cu,P phosphor. Journal Physics D: Applied Physics, 2001, 34, 2683-2689.	2.8	45

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109	Bulk Magnetic Properties of Cobalt Ferrite Doped with Si ⁴⁺ Ions. Journal of Materials Science Letters, 1998, 17, 849-851.	0.5	21
110	Magnetic properties of the mixed spinel Co _{1+x} Si _x Fe ₂ O ₄ . Bulletin of Materials Science, 1998, 21, 409-413.	1.7	14
111	Electrical and dielectric properties of silicon substituted cobalt ferrites. Materials Letters, 1998, 37, 63-67.	2.6	26