Pravin S Shinde

List of Publications by Citations

77	2,475	29	47
papers	citations	h-index	g-index
78	2,715	5.7	4.99
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
77	Efficient electrochromic nickel oxide thin films by electrodeposition. *Journal of Alloys and Compounds*, **2010**, 489, 667-673	5.7	129
76	Zinc oxide mediated heterogeneous photocatalytic degradation of organic species under solar radiation. *Journal of Photochemistry and Photobiology B: Biology*, **2011**, 104, 425-33	6.7	100
75	Structural, optical and electrical characterization of spray-deposited TiO2 thin films. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2006**, 130, 220-227	3.1	97
74	Synthesis and characterization of Cu2ZnSnS4 thin films by SILAR method. *Journal of Physics and Chemistry of Solids*, **2012**, 73, 735-740	3.9	96
73	Structural, optoelectronic, luminescence and thermal properties of Ga-doped zinc oxide thin films. *Applied Surface Science*, **2012**, 258, 9969-9976	6.7	91
72	Fabrication of superior □Fe2O3 nanorod photoanodes through ex-situ Sn-doping for solar water splitting. *Solar Energy Materials and Solar Cells*, **2016**, 144, 247-255	6.4	81
71	Bifunctional TiO2 underlayer for □Fe2O3 nanorod based photoelectrochemical cells: enhanced interface and Ti4+ doping. *Journal of Materials Chemistry A*, **2015**, 3, 5007-5013	13	81
70	Optoelectronic properties of sprayed transparent and conducting indium doped zinc oxide thin films. *Journal Physics D: Applied Physics*, **2008**, 41, 105109	3	81
69	Physical properties of transparent and conducting sprayed fluorine doped zinc oxide thin films. *Solid State Sciences*, **2008**, 10, 1209-1214	3.4	80
68	Onset potential behavior in □Fe2O3 photoanodes: the influence of surface and diffusion Sn doping on the surface states. *Physical Chemistry Chemical Physics*, **2016**, 18, 2495-509	3.6	79
67	Fabrication of a ternary CdS/ZnIn2S4/TiO2 heterojunction for enhancing photoelectrochemical performance: effect of cascading electron□hole transfer. *Journal of Materials Chemistry A*, **2015**, 3, 23597-23606	13	76
66	Nanocoral architecture of TiO2 by hydrothermal process: Synthesis and characterization. *Applied Surface Science*, **2011**, 257, 9737-9746	6.7	75
65	Ag grid induced photocurrent enhancement in WO3 photoanodes and their scale-up performance toward photoelectrochemical H2 generation. *International Journal of Hydrogen Energy*, **2011**, 36, 5262-5270	6.7	70
64	Structural, optical and electrochromic properties of nickel oxide thin films grown from electrodeposited nickel sulphide. *Applied Surface Science*, **2007**, 253, 9365-9371	6.7	67
63	Photoluminescence of zinc oxide nanopowder synthesized by a combustion method. *Powder Technology*, **2011**, 208, 185-188	5.2	60
62	Structural, electrical and optical properties of TiO2 doped WO3 thin films. *Applied Surface Science*, **2005**, 252, 1643-1650	6.7	56
61	Facile growth of hierarchical hematite (□Fe2O3) nanopetals on FTO by pulse reverse electrodeposition for photoelectrochemical water splitting. *Journal of Materials Chemistry*, **2012**, 22, 10469		52

60	Properties of spray deposited titanium dioxide thin films and their application in photoelectrocatalysis. *Solar Energy Materials and Solar Cells*, **2008**, 92, 283-290	6.4	49
59	Properties of chemical vapour deposited nanocrystalline TiO2 thin films and their use in dye-sensitized solar cells. *Journal of Analytical and Applied Pyrolysis*, **2008**, 82, 83-88	6	45
58	UVA and solar light assisted photoelectrocatalytic degradation of AO7 dye in water using spray deposited TiO2 thin films. *Applied Catalysis B: Environmental*, **2009**, 89, 288-294	21.8	44
57	Exploiting the dynamic Sn diffusion from deformation of FTO to boost the photocurrent performance of hematite photoanodes. *Solar Energy Materials and Solar Cells*, **2015**, 141, 71-79	6.4	43
56	Electrodeposited zinc oxide thin films: Nucleation and growth mechanism. *Solar Energy Materials and Solar Cells*, **2007**, 91, 864-870	6.4	39
55	Metal oxide top layer as an interfacial promoter on a ZnIn2S4/TiO2 heterostructure photoanode for enhanced photoelectrochemical performance. *Applied Catalysis B: Environmental*, **2016**, 184, 337-346	21.8	37
54	Electrochromic performance of the mixed V2O5□WO3 thin films synthesized by pulsed spray pyrolysis technique. *Current Applied Physics*, **2014**, 14, 389-395	2.6	37
53	Structural, morphological, optical and electrochromic properties of Ti-doped MoO3 thin films. *Solar Energy Materials and Solar Cells*, **2009**, 93, 183-187	6.4	35
52	Synthesis of electrochromic vanadium oxide by pulsed spray pyrolysis technique and its properties. *Journal Physics D: Applied Physics*, **2009**, 42, 025404	3	31
51	Effective utilization of spray pyrolyzed CeO2 as optically passive counter electrode for enhancing optical modulation of WO3. *Solid State Ionics*, **2009**, 180, 1324-1331	3.3	31
50	Fabrication of efficient CdS nanoflowers-decorated TiO2 nanotubes array heterojunction photoanode by a novel synthetic approach for solar hydrogen production. *International Journal of Hydrogen Energy*, **2016**, 41, 21078-21087	6.7	30
49	Dye sensitized solar cells based on zinc oxide bottle brush. *Materials Letters*, **2011**, 65, 2235-2237	3.3	30
48	Highly efficient and stable 3D Ni(OH)2/CdS/ZnIn2S4/TiO2 heterojunction under solar light: Effect of an improved TiO2/FTO interface and cocatalyst. *Solar Energy Materials and Solar Cells*, **2017**, 159, 475-487	6.4	29
47	Synthesis of MoS2 from [Mo3S7(S2CNEt2)3]I for enhancing photoelectrochemical performance and stability of Cu2O photocathode toward efficient solar water splitting. *Journal of Materials Chemistry A*, **2018**, 6, 9569-9582	13	28
46	Photoelectrocatalytic degradation of oxalic acid by spray deposited nanocrystalline zinc oxide thin films. *Journal of Alloys and Compounds*, **2012**, 538, 237-243	5.7	26
45	Electron□phonon interaction and size effect study in catalyst based zinc oxide thin films. *Journal of Molecular Structure*, **2010**, 984, 186-193	3.4	26
44	Synthesis of electrochromic tin oxide thin films with faster response by spray pyrolysis. *Applied Surface Science*, **2007**, 253, 8560-8567	6.7	26
43	Fine-Tuning Pulse Reverse Electrodeposition for Enhanced Photoelectrochemical Water Oxidation Performance of □Fe2O3Photoanodes. *Journal of Physical Chemistry C*, **2015**, 119, 5281-5292	3.8	25

42	PVP-assisted synthesis of nanostructured transparent WO 3 thin films for photoelectrochemical water splitting. *Materials and Design*, **2016**, 90, 1005-1009	8.1	25
41	Efficient dye-sensitized solar cells based on hierarchical rutile TiO2 microspheres. *CrystEngComm*, **2012**, 14, 8156	3.3	25
40	Enhanced optical modulation due to SPR in gold nanoparticles embedded WO3 thin films. *Journal of Alloys and Compounds*, **2011**, 509, 1729-1733	5.7	25
39	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	6	23
38	From beads-to-wires-to-fibers of tungsten oxide: electrochromic response. *Applied Physics A: Materials Science and Processing*, **2009**, 97, 323-330	2.6	23
37	Photoelectrochemical properties of spray deposited n-ZnIn2Se4 thin films. *Solar Energy Materials and Solar Cells*, **2008**, 92, 453-456	6.4	23
36	Room temperature electrocrystallization of CdSe thin films from ethylene glycol bath. *Journal of Alloys and Compounds*, **2008**, 459, 515-520	5.7	22
35	Surfactant and TiO 2 underlayer derived porous hematite nanoball array photoanode for enhanced photoelectrochemical water oxidation. *Chemical Engineering Journal*, **2017**, 320, 81-92	14.7	20
34	Synthesis and characterization of highly stable optically passive CeO2–ZrO2 counter electrode. *Electrochimica Acta*, **2010**, 55, 1900-1906	6.7	19
33	Structural, Optical, and Photoelectrochemical Properties of Sprayed TiO2 Thin Films: Effect of Precursor Concentration. *Journal of the American Ceramic Society*, **2008**, 91, 1266-1272	3.8	18
32	Structural, optical and electrochromic properties of Nb-doped MoO3 thin films. *Applied Surface Science*, **2008**, 254, 5895-5898	6.7	17
31	Investigating the Redox Properties of Two-Dimensional MoS Using Photoluminescence Spectroelectrochemistry and Scanning Electrochemical Cell Microscopy. *Journal of Physical Chemistry Letters*, **2020**, 11, 3488-3494	6.4	16
30	Synthesis and characterization of spray pyrolyzed nanocrystalline CeO2–SiO2 thin films as passive counter electrodes. *Solar Energy Materials and Solar Cells*, **2010**, 94, 781-787	6.4	16
29	Preparation and properties of spray-deposited ZnIn2Se4 nanocrystalline thin films. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 1747-1752	3.9	16
28	Scalable Core–Shell MoS2/Sb2Se3 Nanorod Array Photocathodes for Enhanced Photoelectrochemical Water Splitting. *Solar Rrl*, **2020**, 4, 1900442	7.1	16
27	Enhanced photoelectrochemical performance of WO3/Ti photoanode due to in situ formation of a thin interfacial composite layer. *Applied Surface Science*, **2013**, 270, 267-271	6.7	15
26	A Synergistic Effect of Surfactant and ZrO2 Underlayer on Photocurrent Enhancement and Cathodic Shift of Nanoporous Fe2O3 Photoanode. *Scientific Reports*, **2016**, 6, 32436	4.9	15
25	PRED treatment mediated stable and efficient water oxidation performance of the Fe2O3 nano-coral structure. *Nanoscale*, **2015**, 7, 14906-13	7.7	14

24	Rapid Screening of Photoanode Materials Using Scanning Photoelectrochemical Microscopy Technique and Formation of Z-Scheme Solar Water Splitting System by Coupling p- and n-type Heterojunction Photoelectrodes. *ACS Applied Energy Materials*, **2018**, 1, 2283-2294	6.1	14
23	Cathodic shift and improved photocurrent performance of cost-effective Fe2O3 photoanodes. *International Journal of Hydrogen Energy*, **2014**, 39, 5575-5579	6.7	14
22	Photoelectrochemical, impedance and optical data for self Sn-diffusion doped Fe2O3 photoanodes fabricated at high temperature by one and two-step annealing methods. *Data in Brief*, **2015**, 5, 796-804	1.2	14
21	Multistep hydrothermal route for nanocoral architecture of anatase TiO2: synthesis and characterization of dye-sensitized solar cell performance. *Progress in Photovoltaics: Research and Applications*, **2014**, 22, 525-539	6.8	12
20	Spray deposited titanium oxide thin films as passive counter electrodes. *Electrochimica Acta*, **2007**, 52, 3114-3120	6.7	11
19	Nickel-induced microwheel-like surface morphological evolution of ZnO thin films by spray pyrolysis. *Applied Physics A: Materials Science and Processing*, **2012**, 109, 591-599	2.6	10
18	Enhanced photoelectrochemical performance of internally porous Au-embedded □FeO photoanodes for water oxidation. *Chemical Communications*, **2017**, 53, 4278-4281	5.8	9
17	Photoelectrochemical study of carbon-modified p-type CuO nanoneedles and n-type TiO nanorods for Z-scheme solar water splitting in a tandem cell configuration.. *RSC Advances*, **2019**, 9, 13576-13585	3.7	7
16	High-Throughput Screening and Surface Interrogation Studies of Au-Modified Hematite Photoanodes by Scanning Electrochemical Microscopy for Solar Water Splitting. *ACS Omega*, **2019**, 4, 17257-17268	3.9	7
15	Multilayered large-area WO3 films on sheet and mesh-type stainless steel substrates for photoelectrochemical hydrogen generation. *International Journal of Energy Research*, **2013**, 37, 323-330	4.5	7
14	Gamma irradiation: an efficient way to enhance current carrying properties of Ag/Ppy composite. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 11151-11158	2.1	6
13	Electrochemical investigations on spray deposited tin oxide thin films. *Solar Energy Materials and Solar Cells*, **2007**, 91, 859-863	6.4	5
12	Precious metal-free solar-to-fuel generation: SSM-DSCs powering water splitting with NanoCOT and NiMoZn electrocatalysts. *Chemical Communications*, **2020**, 56, 1569-1572	5.8	5
11	Delafossite CuFeO2Photocathodes Grown by Direct Liquid Injection Chemical Vapor Deposition for Efficient Photoelectrochemical Water Reduction. *Journal of the Electrochemical Society*, **2018**, 165, H831-H837	3.9	5
10	Review□The Emerging Technologies for Producing Low-Cost Titanium. *Journal of the Electrochemical Society*, **2021**, 168, 042502	3.9	4
9	Self-Assembled Monolayers of Molybdenum Sulfide Clusters on Au Electrode as Hydrogen Evolution Catalyst for Solar Water Splitting. *Inorganics*, **2019**, 7, 79	2.9	3
8	Reply to □omments on □ptoelectronic properties of sprayed transparent and conducting indium doped zinc oxide thin films□*Journal Physics D: Applied Physics*, **2008**, 41, 228002	3	3
7	Nanocrystals of CuMSnS (M = In or Ga) for solar energy conversion applications. *Chemical Communications*, **2018**, 54, 11757-11760	5.8	3

6	Data on the effect of improved TiO/FTO interface and Ni(OH) cocatalyst on the photoelectrochemical performances and stability of CdS cased ZnInS/TiO heterojunction. *Data in Brief*, **2018**, 17, 807-819	1.2	2
5	Electrodeposition of Titanium Aluminide (TiAl) Alloy from AlCl3-BMIC Ionic Liquid at Low Temperature. *Minerals, Metals and Materials Series*, **2020**, 1659-1667	0.3	2
4	Diffusion coefficient and nucleation density studies on electrochemical deposition of aluminum from chloroaluminate ionic liquid electrolytes. *Journal of Electroanalytical Chemistry*, **2021**, 895, 115363	4.1	2
3	Enhanced fill factor for normal n-i-p planar heterojunction and mesoscopic perovskite solar cells using ruthenium-doped TiO2 electron transporting layer. *Progress in Photovoltaics: Research and Applications*, **2021**, 29, 159-171	6.8	0
2	Potentiostatic Electrodeposition of TiAl Alloy with 40% Titanium from the Lewis Acidic 1-Butyl-3-Methylimidazolium Chloride-Aluminum Chloride Ionic Liquid Electrolyte. *Minerals, Metals and Materials Series*, **2022**, 74-86	0.3	
1	Effect of Dissolution of Titanium Ions on Ti Alloys Electrodeposition from EMIC-AlCl3 Ionic Liquid at Low Temperature. *Minerals, Metals and Materials Series*, **2021**, 141-153	0.3	