

# Pravin S Shinde

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77  
papers

2,475  
citations

29  
h-index

47  
g-index

78  
ext. papers

2,715  
ext. citations

5.7  
avg, IF

4.99  
L-index

#	Paper	IF	Citations
77	Potentiostatic Electrodeposition of TiAl Alloy with 40% Titanium from the Lewis Acidic 1-Butyl-3-Methylimidazolium Chloride-Aluminum Chloride Ionic Liquid Electrolyte. <i>Minerals, Metals and Materials Series</i> , <b>2022</b> , 74-86	0.3	
76	Review The Emerging Technologies for Producing Low-Cost Titanium. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 042502	3.9	4
75	Enhanced fill factor for normal n-i-p planar heterojunction and mesoscopic perovskite solar cells using ruthenium-doped TiO <sub>2</sub> electron transporting layer. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2021</b> , 29, 159-171	6.8	0
74	Effect of Dissolution of Titanium Ions on Ti Alloys Electrodeposition from EMIC-AlCl <sub>3</sub> Ionic Liquid at Low Temperature. <i>Minerals, Metals and Materials Series</i> , <b>2021</b> , 141-153	0.3	
73	Diffusion coefficient and nucleation density studies on electrochemical deposition of aluminum from chloroaluminate ionic liquid electrolytes. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 895, 115363	4.1	2
72	Investigating the Redox Properties of Two-Dimensional MoS <sub>2</sub> Using Photoluminescence Spectroelectrochemistry and Scanning Electrochemical Cell Microscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 3488-3494	6.4	16
71	Electrodeposition of Titanium Aluminide (TiAl) Alloy from AlCl <sub>3</sub> BMIC Ionic Liquid at Low Temperature. <i>Minerals, Metals and Materials Series</i> , <b>2020</b> , 1659-1667	0.3	2
70	Scalable Core-Shell MoS <sub>2</sub> /Sb <sub>2</sub> Se <sub>3</sub> Nanorod Array Photocathodes for Enhanced Photoelectrochemical Water Splitting. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900442	7.1	16
69	Precious metal-free solar-to-fuel generation: SSM-DSCs powering water splitting with NanoCOT and NiMoZn electrocatalysts. <i>Chemical Communications</i> , <b>2020</b> , 56, 1569-1572	5.8	5
68	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.. <i>RSC Advances</i> , <b>2019</b> , 9, 13576-13585	3.7	7
67	Self-Assembled Monolayers of Molybdenum Sulfide Clusters on Au Electrode as Hydrogen Evolution Catalyst for Solar Water Splitting. <i>Inorganics</i> , <b>2019</b> , 7, 79	2.9	3
66	High-Throughput Screening and Surface Interrogation Studies of Au-Modified Hematite Photoanodes by Scanning Electrochemical Microscopy for Solar Water Splitting. <i>ACS Omega</i> , <b>2019</b> , 4, 17257-17268	3.9	7
65	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. <i>Data in Brief</i> , <b>2018</b> , 17, 807-819	1.2	2
64	Gamma irradiation: an efficient way to enhance current carrying properties of Ag/Ppy composite. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 11151-11158	2.1	6
63	Synthesis of MoS <sub>2</sub> from [Mo <sub>3</sub> S <sub>7</sub> (S <sub>2</sub> CNEt <sub>2</sub> ) <sub>3</sub> ]I for enhancing photoelectrochemical performance and stability of Cu <sub>2</sub> O photocathode toward efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9569-9582	13	28
62	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. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 2283-2294	6.1	14
61	Nanocrystals of CuMSnS (M = In or Ga) for solar energy conversion applications. <i>Chemical Communications</i> , <b>2018</b> , 54, 11757-11760	5.8	3

60	Delafossite CuFeO <sub>2</sub> Photocathodes Grown by Direct Liquid Injection Chemical Vapor Deposition for Efficient Photoelectrochemical Water Reduction. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, H831-H837	3.9	5
59	Enhanced photoelectrochemical performance of internally porous Au-embedded FeO photoanodes for water oxidation. <i>Chemical Communications</i> , <b>2017</b> , 53, 4278-4281	5.8	9
58	Surfactant and TiO <sub>2</sub> underlayer derived porous hematite nanoball array photoanode for enhanced photoelectrochemical water oxidation. <i>Chemical Engineering Journal</i> , <b>2017</b> , 320, 81-92	14.7	20
57	Highly efficient and stable 3D Ni(OH) <sub>2</sub> /CdS/ZnIn <sub>2</sub> S <sub>4</sub> /TiO <sub>2</sub> heterojunction under solar light: Effect of an improved TiO <sub>2</sub> /FTO interface and cocatalyst. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 159, 475-487	6.4	29
56	Fabrication of efficient CdS nanoflowers-decorated TiO <sub>2</sub> nanotubes array heterojunction photoanode by a novel synthetic approach for solar hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 21078-21087	6.7	30
55	Metal oxide top layer as an interfacial promoter on a ZnIn <sub>2</sub> S <sub>4</sub> /TiO <sub>2</sub> heterostructure photoanode for enhanced photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 184, 337-346	21.8	37
54	Onset potential behavior in Fe <sub>2</sub> O <sub>3</sub> photoanodes: the influence of surface and diffusion Sn doping on the surface states. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 2495-509	3.6	79
53	PVP-assisted synthesis of nanostructured transparent WO <sub>3</sub> thin films for photoelectrochemical water splitting. <i>Materials and Design</i> , <b>2016</b> , 90, 1005-1009	8.1	25
52	Fabrication of superior Fe <sub>2</sub> O <sub>3</sub> nanorod photoanodes through ex-situ Sn-doping for solar water splitting. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 144, 247-255	6.4	81
51	A Synergistic Effect of Surfactant and ZrO <sub>2</sub> Underlayer on Photocurrent Enhancement and Cathodic Shift of Nanoporous Fe <sub>2</sub> O <sub>3</sub> Photoanode. <i>Scientific Reports</i> , <b>2016</b> , 6, 32436	4.9	15
50	Fine-Tuning Pulse Reverse Electrodeposition for Enhanced Photoelectrochemical Water Oxidation Performance of Fe <sub>2</sub> O <sub>3</sub> Photoanodes. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 5281-5292	3.8	25
49	PRED treatment mediated stable and efficient water oxidation performance of the Fe <sub>2</sub> O <sub>3</sub> nano-coral structure. <i>Nanoscale</i> , <b>2015</b> , 7, 14906-13	7.7	14
48	Fabrication of a ternary CdS/ZnIn <sub>2</sub> S <sub>4</sub> /TiO <sub>2</sub> heterojunction for enhancing photoelectrochemical performance: effect of cascading electron-hole transfer. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 23597-23606	13.76	76
47	Photoelectrochemical, impedance and optical data for self Sn-diffusion doped Fe <sub>2</sub> O <sub>3</sub> photoanodes fabricated at high temperature by one and two-step annealing methods. <i>Data in Brief</i> , <b>2015</b> , 5, 796-804	1.2	14
46	Exploiting the dynamic Sn diffusion from deformation of FTO to boost the photocurrent performance of hematite photoanodes. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 141, 71-79	6.4	43
45	Bifunctional TiO <sub>2</sub> underlayer for Fe <sub>2</sub> O <sub>3</sub> nanorod based photoelectrochemical cells: enhanced interface and Ti <sup>4+</sup> doping. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 5007-5013	13	81
44	Electrochromic performance of the mixed V <sub>2</sub> O <sub>5</sub> /WO <sub>3</sub> thin films synthesized by pulsed spray pyrolysis technique. <i>Current Applied Physics</i> , <b>2014</b> , 14, 389-395	2.6	37
43	Cathodic shift and improved photocurrent performance of cost-effective Fe <sub>2</sub> O <sub>3</sub> photoanodes. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 5575-5579	6.7	14

42	Multistep hydrothermal route for nanocoral architecture of anatase TiO <sub>2</sub> : synthesis and characterization of dye-sensitized solar cell performance. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2014</b> , 22, 525-539	6.8	12
41	Multilayered large-area WO <sub>3</sub> films on sheet and mesh-type stainless steel substrates for photoelectrochemical hydrogen generation. <i>International Journal of Energy Research</i> , <b>2013</b> , 37, 323-330	4.5	7
40	Enhanced photoelectrochemical performance of WO <sub>3</sub> /Ti photoanode due to in situ formation of a thin interfacial composite layer. <i>Applied Surface Science</i> , <b>2013</b> , 270, 267-271	6.7	15
39	Synthesis and characterization of Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films by SILAR method. <i>Journal of Physics and Chemistry of Solids</i> , <b>2012</b> , 73, 735-740	3.9	96
38	Efficient dye-sensitized solar cells based on hierarchical rutile TiO <sub>2</sub> microspheres. <i>CrystEngComm</i> , <b>2012</b> , 14, 8156	3.3	25
37	Nickel-induced microwheel-like surface morphological evolution of ZnO thin films by spray pyrolysis. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 109, 591-599	2.6	10
36	Structural, optoelectronic, luminescence and thermal properties of Ga-doped zinc oxide thin films. <i>Applied Surface Science</i> , <b>2012</b> , 258, 9969-9976	6.7	91
35	Photoelectrocatalytic degradation of oxalic acid by spray deposited nanocrystalline zinc oxide thin films. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 538, 237-243	5.7	26
34	Investigation of structural, optical and luminescent properties of sprayed N-doped zinc oxide thin films. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2012</b> , 97, 181-188	6	23
33	Facile growth of hierarchical hematite (α-Fe <sub>2</sub> O <sub>3</sub> ) nanopetals on FTO by pulse reverse electrodeposition for photoelectrochemical water splitting. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 10469		52
32	Nanocoral architecture of TiO <sub>2</sub> by hydrothermal process: Synthesis and characterization. <i>Applied Surface Science</i> , <b>2011</b> , 257, 9737-9746	6.7	75
31	Enhanced optical modulation due to SPR in gold nanoparticles embedded WO <sub>3</sub> thin films. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 1729-1733	5.7	25
30	Dye sensitized solar cells based on zinc oxide bottle brush. <i>Materials Letters</i> , <b>2011</b> , 65, 2235-2237	3.3	30
29	Ag grid induced photocurrent enhancement in WO <sub>3</sub> photoanodes and their scale-up performance toward photoelectrochemical H <sub>2</sub> generation. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 5262-5270	6.7	70
28	Zinc oxide mediated heterogeneous photocatalytic degradation of organic species under solar radiation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2011</b> , 104, 425-33	6.7	100
27	Photoluminescence of zinc oxide nanopowder synthesized by a combustion method. <i>Powder Technology</i> , <b>2011</b> , 208, 185-188	5.2	60
26	Efficient electrochromic nickel oxide thin films by electrodeposition. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 489, 667-673	5.7	129
25	Electron-phonon interaction and size effect study in catalyst based zinc oxide thin films. <i>Journal of Molecular Structure</i> , <b>2010</b> , 984, 186-193	3.4	26

24	Synthesis and characterization of spray pyrolyzed nanocrystalline CeO <sub>2</sub> BiO <sub>2</sub> thin films as passive counter electrodes. <i>Solar Energy Materials and Solar Cells</i> , <b>2010</b> , 94, 781-787	6.4	16
23	Synthesis and characterization of highly stable optically passive CeO <sub>2</sub> /rO <sub>2</sub> counter electrode. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 1900-1906	6.7	19
22	Synthesis of electrochromic vanadium oxide by pulsed spray pyrolysis technique and its properties. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 025404	3	31
21	From beads-to-wires-to-fibers of tungsten oxide: electrochromic response. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 97, 323-330	2.6	23
20	Structural, morphological, optical and electrochromic properties of Ti-doped MoO <sub>3</sub> thin films. <i>Solar Energy Materials and Solar Cells</i> , <b>2009</b> , 93, 183-187	6.4	35
19	Effective utilization of spray pyrolyzed CeO <sub>2</sub> as optically passive counter electrode for enhancing optical modulation of WO <sub>3</sub> . <i>Solid State Ionics</i> , <b>2009</b> , 180, 1324-1331	3.3	31
18	UVA and solar light assisted photoelectrocatalytic degradation of AO7 dye in water using spray deposited TiO <sub>2</sub> thin films. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 89, 288-294	21.8	44
17	Physical properties of transparent and conducting sprayed fluorine doped zinc oxide thin films. <i>Solid State Sciences</i> , <b>2008</b> , 10, 1209-1214	3.4	80
16	Room temperature electrocrystallization of CdSe thin films from ethylene glycol bath. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 459, 515-520	5.7	22
15	Optoelectronic properties of sprayed transparent and conducting indium doped zinc oxide thin films. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 105109	3	81
14	Reply to Comments on Optoelectronic properties of sprayed transparent and conducting indium doped zinc oxide thin films. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 228002	3	3
13	Properties of chemical vapour deposited nanocrystalline TiO <sub>2</sub> thin films and their use in dye-sensitized solar cells. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2008</b> , 82, 83-88	6	45
12	Preparation and properties of spray-deposited ZnIn <sub>2</sub> Se <sub>4</sub> nanocrystalline thin films. <i>Journal of Physics and Chemistry of Solids</i> , <b>2008</b> , 69, 1747-1752	3.9	16
11	Properties of spray deposited titanium dioxide thin films and their application in photoelectrocatalysis. <i>Solar Energy Materials and Solar Cells</i> , <b>2008</b> , 92, 283-290	6.4	49
10	Photoelectrochemical properties of spray deposited n-ZnIn <sub>2</sub> Se <sub>4</sub> thin films. <i>Solar Energy Materials and Solar Cells</i> , <b>2008</b> , 92, 453-456	6.4	23
9	Structural, optical and electrochromic properties of Nb-doped MoO <sub>3</sub> thin films. <i>Applied Surface Science</i> , <b>2008</b> , 254, 5895-5898	6.7	17
8	Structural, Optical, and Photoelectrochemical Properties of Sprayed TiO <sub>2</sub> Thin Films: Effect of Precursor Concentration. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 1266-1272	3.8	18
7	Electrochemical investigations on spray deposited tin oxide thin films. <i>Solar Energy Materials and Solar Cells</i> , <b>2007</b> , 91, 859-863	6.4	5

6	Electrodeposited zinc oxide thin films: Nucleation and growth mechanism. <i>Solar Energy Materials and Solar Cells</i> , <b>2007</b> , 91, 864-870	6.4	39
5	Synthesis of electrochromic tin oxide thin films with faster response by spray pyrolysis. <i>Applied Surface Science</i> , <b>2007</b> , 253, 8560-8567	6.7	26
4	Spray deposited titanium oxide thin films as passive counter electrodes. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 3114-3120	6.7	11
3	Structural, optical and electrochromic properties of nickel oxide thin films grown from electrodeposited nickel sulphide. <i>Applied Surface Science</i> , <b>2007</b> , 253, 9365-9371	6.7	67
2	Structural, optical and electrical characterization of spray-deposited TiO <sub>2</sub> thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2006</b> , 130, 220-227	3.1	97
1	Structural, electrical and optical properties of TiO <sub>2</sub> doped WO <sub>3</sub> thin films. <i>Applied Surface Science</i> , <b>2005</b> , 252, 1643-1650	6.7	56