# Pravin S Shinde

List of Publications by Year
in descending order

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|---|---|---|---|
| 76 papers | 2,975 citations | 136940 32 h-index | 175241 52 g-index |
| 78 all docs | 78 docs citations | 78 times ranked | 3928 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Efficient electrochromic nickel oxide thin films by electrodeposition. Journal of Alloys and Compounds, 2010, 489, 667-673. | 5.5 | 173 |
| 2 | 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 |
| 3 | Synthesis and characterization of Cu2ZnSnS4 thin films by SILAR method. Journal of Physics and Chemistry of Solids, 2012, 73, 735-740. | 4.0 | 118 |
| 4 | Structural, optoelectronic, luminescence and thermal properties of Ga-doped zinc oxide thin films. Applied Surface Science, 2012, 258, 9969-9976. | 6.1 | 110 |
| 5 | 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. | 3.5 | 106 |
| 6 | Fabrication of superior Î±-Fe2O3 nanorod photoanodes through ex-situ Sn-doping for solar water splitting. Solar Energy Materials and Solar Cells, 2016, 144, 247-255. | 6.2 | 101 |
| 7 | Onset potential behavior in Î±-Fe<sub>2</sub>O<sub>3</sub>photoanodes: the influence of surface and diffusion Sn doping on the surface states. Physical Chemistry Chemical Physics, 2016, 18, 2495-2509. | 2.8 | 96 |
| 8 | Physical properties of transparent and conducting sprayed fluorine doped zinc oxide thin films. Solid State Sciences, 2008, 10, 1209-1214. | 3.2 | 92 |
| 9 | Optoelectronic properties of sprayed transparent and conducting indium doped zinc oxide thin films. Journal Physics D: Applied Physics, 2008, 41, 105109. | 2.8 | 91 |
| 10 | Bifunctional TiO<sub>2</sub> underlayer for Î±-Fe<sub>2</sub>O<sub>3</sub> nanorod based photoelectrochemical cells: enhanced interface and Ti<sup>4+</sup> doping. Journal of Materials Chemistry A, 2015, 3, 5007-5013. | 10.3 | 90 |
| 11 | 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. | 7.1 | 89 |
| 12 | 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 electronâ€“hole transfer. Journal of Materials Chemistry A, 2015, 3, 23597-23606. | 10.3 | 85 |
| 13 | Nanocoral architecture of TiO2 by hydrothermal process: Synthesis and characterization. Applied Surface Science, 2011, 257, 9737-9746. | 6.1 | 79 |
| 14 | Structural, optical and electrochromic properties of nickel oxide thin films grown from electrodeposited nickel sulphide. Applied Surface Science, 2007, 253, 9365-9371. | 6.1 | 76 |
| 15 | Photoluminescence of zinc oxide nanopowder synthesized by a combustion method. Powder Technology, 2011, 208, 185-188. | 4.2 | 66 |
| 16 | Structural, electrical and optical properties of TiO2 doped WO3 thin films. Applied Surface Science, 2005, 252, 1643-1650. | 6.1 | 62 |
| 17 | Facile growth of hierarchical hematite (Î±-Fe2O3) nanopetals on FTO by pulse reverse electrodeposition for photoelectrochemical water splitting. Journal of Materials Chemistry, 2012, 22, 10469. | 6.7 | 60 |
| 18 | Properties of spray deposited titanium dioxide thin films and their application in photoelectrocatalysis. Solar Energy Materials and Solar Cells, 2008, 92, 283-290. | 6.2 | 53 |

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|---|---|---|---|
| 19 | 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. | 20.2 | 52 |
| 20 | 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. | 5.5 | 50 |
| 21 | 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. | 6.2 | 48 |
| 22 | 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. | 20.2 | 47 |
| 23 | Electrochromic performance of the mixed V2O5â€“WO3 thin films synthesized by pulsed spray pyrolysis technique. Current Applied Physics, 2014, 14, 389-395. | 2.4 | 46 |
| 24 | Electrodeposited zinc oxide thin films: Nucleation and growth mechanism. Solar Energy Materials and Solar Cells, 2007, 91, 864-870. | 6.2 | 45 |
| 25 | Structural, morphological, optical and electrochromic properties of Ti-doped MoO3 thin films. Solar Energy Materials and Solar Cells, 2009, 93, 183-187. | 6.2 | 44 |
| 26 | 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. | 6.2 | 39 |
| 27 | Synthesis of electrochromic vanadium oxide by pulsed spray pyrolysis technique and its properties. Journal Physics D: Applied Physics, 2009, 42, 025404. | 2.8 | 36 |
| 28 | 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. | 7.1 | 36 |
| 29 | Investigating the Redox Properties of Two-Dimensional MoS<sub>2</sub> Using Photoluminescence Spectroelectrochemistry and Scanning Electrochemical Cell Microscopy. Journal of Physical Chemistry Letters, 2020, 11, 3488-3494. | 4.6 | 35 |
| 30 | 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 |
| 31 | Effective utilization of spray pyrolyzed CeO2 as optically passive counter electrode for enhancing optical modulation of WO3. Solid State Ionics, 2009, 180, 1324-1331. | 2.7 | 33 |
| 32 | 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. Journal of Materials Chemistry A, 2018, 6, 9569-9582. | 10.3 | 33 |
| 33 | Dye sensitized solar cells based on zinc oxide bottle brush. Materials Letters, 2011, 65, 2235-2237. | 2.6 | 32 |
| 34 | Scalable Coreâ€“Shell MoS<sub>2</sub>/Sb<sub>2</sub>Se<sub>3</sub> Nanorod Array Photocathodes for Enhanced Photoelectrochemical Water Splitting. Solar Rrl, 2020, 4, 1900442. | 5.8 | 32 |
| 35 | Enhanced optical modulation due to SPR in gold nanoparticles embedded WO3 thin films. Journal of Alloys and Compounds, 2011, 509, 1729-1733. | 5.5 | 31 |
| 36 | Fine-Tuning Pulse Reverse Electrodeposition for Enhanced Photoelectrochemical Water Oxidation Performance of Î±-Fe<sub>2</sub>O<sub>3</sub> Photoanodes. Journal of Physical Chemistry C, 2015, 119, 5281-5292. | 3.1 | 30 |

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| 37 | Synthesis of electrochromic tin oxide thin films with faster response by spray pyrolysis. Applied Surface Science, 2007, 253, 8560-8567. | 6.1 | 28 |
| 38 | PVP-assisted synthesis of nanostructured transparent WO3 thin films for photoelectrochemical water splitting. Materials and Design, 2016, 90, 1005-1009. | 7.0 | 28 |
| 39 | Photoelectrochemical properties of spray deposited n-ZnIn2Se4 thin films. Solar Energy Materials and Solar Cells, 2008, 92, 453-456. | 6.2 | 27 |
| 40 | Electronâ€“phonon interaction and size effect study in catalyst based zinc oxide thin films. Journal of Molecular Structure, 2010, 984, 186-193. | 3.6 | 27 |
| 41 | Synthesis and characterization of highly stable optically passive CeO2â€“ZrO2 counter electrode. Electrochimica Acta, 2010, 55, 1900-1906. | 5.2 | 27 |
| 42 | Efficient dye-sensitized solar cells based on hierarchical rutile TiO2 microspheres. CrystEngComm, 2012, 14, 8156. | 2.6 | 27 |
| 43 | From beads-to-wires-to-fibers of tungsten oxide: electrochromic response. Applied Physics A: Materials Science and Processing, 2009, 97, 323-330. | 2.3 | 26 |
| 44 | 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 |
| 45 | 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. | 5.1 | 24 |
| 46 | Room temperature electrocrystallization of CdSe thin films from ethylene glycol bath. Journal of Alloys and Compounds, 2008, 459, 515-520. | 5.5 | 23 |
| 47 | Structural, optical and electrochromic properties of Nb-doped MoO3 thin films. Applied Surface Science, 2008, 254, 5895-5898. | 6.1 | 22 |
| 48 | Structural, Optical, and Photoelectrochemical Properties of Sprayed TiO<sub>2</sub> Thin Films: Effect of Precursor Concentration. Journal of the American Ceramic Society, 2008, 91, 1266-1272. | 3.8 | 22 |
| 49 | Surfactant and TiO 2 underlayer derived porous hematite nanoball array photoanode for enhanced photoelectrochemical water oxidation. Chemical Engineering Journal, 2017, 320, 81-92. | 12.7 | 21 |
| 50 | Photoelectrochemical study of carbon-modified p-type Cu<sub>2</sub>O nanoneedles and n-type TiO<sub>2â^'x</sub> nanorods for Z-scheme solar water splitting in a tandem cell configuration. RSC Advances, 2019, 9, 13576-13585. | 3.6 | 21 |
| 51 | Synthesis and characterization of spray pyrolyzed nanocrystalline CeO2â€“SiO2 thin films as passive counter electrodes. Solar Energy Materials and Solar Cells, 2010, 94, 781-787. | 6.2 | 20 |
| 52 | Spray deposited titanium oxide thin films as passive counter electrodes. Electrochimica Acta, 2007, 52, 3114-3120. | 5.2 | 17 |
| 53 | Preparation and properties of spray-deposited ZnIn2Se4 nanocrystalline thin films. Journal of Physics and Chemistry of Solids, 2008, 69, 1747-1752. | 4.0 | 17 |
| 54 | PRED treatment mediated stable and efficient water oxidation performance of the Fe<sub>2</sub>O<sub>3</sub> nano-coral structure. Nanoscale, 2015, 7, 14906-14913. | 5.6 | 17 |

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| 55 | A Synergistic Effect of Surfactant and ZrO2 Underlayer on Photocurrent Enhancement and Cathodic Shift of Nanoporous Fe2O3 Photoanode. Scientific Reports, 2016, 6, 32436. | 3.3 | 17 |
| 56 | Photoelectrochemical, impedance and optical data for self Sn-diffusion doped Fe 2 O 3 photoanodes fabricated at high temperature by one and two-step annealing methods. Data in Brief, 2015, 5, 796-804. | 1.0 | 16 |
| 57 | 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. | 6.1 | 15 |
| 58 | Cathodic shift and improved photocurrent performance of cost-effective Fe2O3 photoanodes. International Journal of Hydrogen Energy, 2014, 39, 5575-5579. | 7.1 | 14 |
| 59 | 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. | 3.5 | 13 |
| 60 | Multistep hydrothermal route for nanocoral architecture of anatase TiO<sub>2</sub>: synthesis and characterization of dyeâ€sensitized solar cell performance. Progress in Photovoltaics: Research and Applications, 2014, 22, 525-539. | 8.1 | 12 |
| 61 | 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. | 2.3 | 11 |
| 62 | Enhanced photoelectrochemical performance of internally porous Au-embedded Î±-Fe<sub>2</sub>O<sub>3</sub> photoanodes for water oxidation. Chemical Communications, 2017, 53, 4278-4281. | 4.1 | 10 |
| 63 | Delafossite CuFeO<sub>2</sub>Photocathodes Grown by Direct Liquid Injection Chemical Vapor Deposition for Efficient Photoelectrochemical Water Reduction. Journal of the Electrochemical Society, 2018, 165, H831-H837. | 2.9 | 10 |
| 64 | Diffusion coefficient and nucleation density studies on electrochemical deposition of aluminum from chloroaluminate ionic liquid electrolytes. Journal of Electroanalytical Chemistry, 2021, 895, 115363. | 3.8 | 9 |
| 65 | Multilayered large-area WO3films on sheet and mesh-type stainless steel substrates for photoelectrochemical hydrogen generation. International Journal of Energy Research, 2013, 37, 323-330. | 4.5 | 8 |
| 66 | 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. | 2.2 | 8 |
| 67 | Reviewâ€"The Emerging Technologies for Producing Low-Cost Titanium. Journal of the Electrochemical Society, 2021, 168, 042502. | 2.9 | 8 |
| 68 | Nanocrystals of CuMSnS4 (M = In or Ga) for solar energy conversion applications. Chemical Communications, 2018, 54, 11757-11760. | 4.1 | 7 |
| 69 | Precious metal-free solar-to-fuel generation: SSM-DSCs powering water splitting with NanoCOT and NiMoZn electrocatalysts. Chemical Communications, 2020, 56, 1569-1572. | 4.1 | 6 |
| 70 | Electrochemical investigations on spray deposited tin oxide thin films. Solar Energy Materials and Solar Cells, 2007, 91, 859-863. | 6.2 | 5 |
| 71 | Data on the effect of improved TiO2/FTO interface and Ni(OH)2 cocatalyst on the photoelectrochemical performances and stability of CdS cased ZnIn2S4/TiO2 heterojunction. Data in Brief, 2018, 17, 807-819. | 1.0 | 4 |
| 72 | Self-Assembled Monolayers of Molybdenum Sulfide Clusters on Au Electrode as Hydrogen Evolution Catalyst for Solar Water Splitting. Inorganics, 2019, 7, 79. | 2.7 | 4 |

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| 73 | Enhanced fill factor for normal nâ€iâ€p planar heterojunction and mesoscopic perovskite solar cells using rutheniumâ€doped TiO 2 electron transporting layer. Progress in Photovoltaics: Research and Applications, 2021, 29, 159-171. | 8.1 | 4 |
| 74 | Reply to â€˜Comments on â€œOptoelectronic properties of sprayed transparent and conducting indium doped zinc oxide thin filmsâ€â€™. Journal Physics D: Applied Physics, 2008, 41, 228002. | 2.8 | 3 |
| 75 | Electrodeposition of Titanium Aluminide (TiAl) Alloy from AlCl3â€“BMIC Ionic Liquid at Low Temperature. Minerals, Metals and Materials Series, 2020, , 1659-1667. | 0.4 | 2 |
| 76 | 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. | 0.4 | 0 |