

Devendra Tiwari

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.

32 papers	949 citations	18 h-index	30 g-index
36 ext. papers	1,161 ext. citations	7 avg, IF	4.61 L-index

#	Paper	IF	Citations
32	Mapping the Energetics of Defect States in CuZnSnS films and the Impact of Sb Doping.. <i>ACS Applied Energy Materials</i> , 2022 , 5, 3933-3940	6.1	0
31	Chalcogenide perovskites for photovoltaics: current status and prospects. <i>JPhys Energy</i> , 2021 , 3, 034010	4.9	9
30	Defect limitations in Cu ₂ ZnSn(S, Se) ₄ solar cells utilizing an In ₂ S ₃ buffer layer. <i>Journal of Applied Physics</i> , 2020 , 127, 205305	2.5	8
29	Promoting Active Electronic States in LaFeO Thin-Films Photocathodes via Alkaline-Earth Metal Substitution. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31486-31495	9.5	6
28	Crystal and Electronic Structure of Bismuth Thiophosphate, BiPS ₄ : An Earth-Abundant Solar Absorber. <i>Chemistry of Materials</i> , 2020 , 32, 1235-1242	9.6	9
27	High Interfacial Hole-Transfer Efficiency at GaFeO ₃ Thin Film Photoanodes. <i>Advanced Energy Materials</i> , 2020 , 10, 2002784	21.8	9
26	Doping and alloying of kesterites. <i>JPhys Energy</i> , 2019 , 1, 044004	4.9	46
25	Photovoltaic Performance of Phase-Pure Orthorhombic BiSI Thin-Films. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3878-3885	6.1	26
24	Nanostructured LaFeO ₃ Photocathodes with Onset Potentials for the Hydrogen Evolution Reaction Over 1.4V vs. RHE. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H764-H768	3.9	7
23	Kesterite Cu ₂ ZnSnS ₄ thin films by drop-on-demand inkjet printing from molecular ink. <i>Journal of Alloys and Compounds</i> , 2018 , 747, 31-37	5.7	7
22	Investigating the Role of the Organic Cation in Formamidinium Lead Iodide Perovskite Using Ultrafast Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 895-901	6.4	54
21	Photoelectrochemical properties of BiOCl microplatelets. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 819, 171-177	4.1	17
20	Above 600 mV Open-Circuit Voltage BiI ₃ Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 1882-1886	20.1	50
19	Mapping Shunting Paths at the Surface of CuZnSn(S,Se) Films via Energy-Filtered Photoemission Microscopy. <i>IScience</i> , 2018 , 9, 36-46	6.1	6
18	Impact of Sb and Na Doping on the Surface Electronic Landscape of Cu ₂ ZnSnS ₄ Thin Films. <i>ACS Energy Letters</i> , 2018 , 3, 2977-2982	20.1	16
17	YFeO ₃ Photocathodes for Hydrogen Evolution. <i>Electrochimica Acta</i> , 2017 , 246, 365-371	6.7	19
16	Solution processed single-phase Cu ₂ SnS ₃ films: structure and photovoltaic performance. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 899-906	5.8	25

15	Single Molecular Precursor Solution for CuIn(S,Se) Thin Films Photovoltaic Cells: Structure and Device Characteristics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2301-2308	9.5	19
14	Spectroscopic and electrical signatures of acceptor states in solution processed Cu ₂ ZnSn(S,Se) ₄ solar cells. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12720-12727	7.1	15
13	Textured PbI ₂ photocathodes obtained by gas phase anion replacement. <i>Electrochimica Acta</i> , 2017 , 254, 223-229	6.7	7
12	Cu ₂ ZnSnS ₄ Thin Films Generated from a Single Solution Based Precursor: The Effect of Na and Sb Doping. <i>Chemistry of Materials</i> , 2016 , 28, 4991-4997	9.6	52
11	Composition-Dependent Reactivity of Ba _{0.5} Sr _{0.5} CoxFe _{1-x} O ₃ toward the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 22291-22297	3.8	9
10	Solution Processed Bismuth Ferrite Thin Films for All-Oxide Solar Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 5872-5877	3.8	61
9	Electrical transport in layer-by-layer solution deposited Cu ₂ SnS ₃ films: Effect of thickness and annealing temperature. <i>Applied Surface Science</i> , 2014 , 297, 158-166	6.7	20
8	Cu ₂ ZnSnS ₄ thin films by simple replacement reaction route for solar photovoltaic application. <i>Thin Solid Films</i> , 2014 , 551, 42-45	2.2	19
7	Microwave-assisted rapid synthesis of tetragonal Cu ₂ SnS ₃ nanoparticles for solar photovoltaics. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 117, 1139-1146	2.6	33
6	Structural and optical properties of layer-by-layer solution deposited Cu ₂ SnS ₃ films. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 3687-3694	2.1	26
5	Spin-coating deposition of PbS and CdS thin films for solar cell application. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 117, 1791-1799	2.6	36
4	Synthesis of earth-abundant Cu ₂ SnS ₃ powder using solid state reaction. <i>Journal of Physics and Chemistry of Solids</i> , 2014 , 75, 410-415	3.9	26
3	Non-toxic, earth-abundant 2% efficient Cu ₂ SnS ₃ solar cell based on tetragonal films direct-coated from single metal-organic precursor solution. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 113, 165-170	6.4	158
2	Earth-abundant non-toxic Cu ₂ ZnSnS ₄ thin films by direct liquid coating from metalthiourea precursor solution. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 101, 46-50	6.4	117
1	Photoconducting nanocrystalline lead sulphide thin films obtained by chemical bath deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 108, 819-824	2.6	35