Devendra Tiwari

List of Publications by Citations

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	Non-toxic, earth-abundant 2% efficient Cu2SnS3 solar cell based on tetragonal films direct-coated from single metal-organic precursor solution. *Solar Energy Materials and Solar Cells*, **2013**, 113, 165-170	6.4	158
31	Earth-abundant non-toxic Cu2ZnSnS4 thin films by direct liquid coating from metal–thiourea precursor solution. *Solar Energy Materials and Solar Cells*, **2012**, 101, 46-50	6.4	117
30	Solution Processed Bismuth Ferrite Thin Films for All-Oxide Solar Photovoltaics. *Journal of Physical Chemistry C*, **2015**, 119, 5872-5877	3.8	61
29	Investigating the Role of the Organic Cation in Formamidinium Lead Iodide Perovskite Using Ultrafast Spectroscopy. *Journal of Physical Chemistry Letters*, **2018**, 9, 895-901	6.4	54
28	Cu2ZnSnS4 Thin Films Generated from a Single Solution Based Precursor: The Effect of Na and Sb Doping. *Chemistry of Materials*, **2016**, 28, 4991-4997	9.6	52
27	Above 600 mV Open-Circuit Voltage BiI3 Solar Cells. *ACS Energy Letters*, **2018**, 3, 1882-1886	20.1	50
26	Doping and alloying of kesterites. *JPhys Energy*, **2019**, 1, 044004	4.9	46
25	Spin-coating deposition of PbS and CdS thin films for solar cell application. *Applied Physics A: Materials Science and Processing*, **2014**, 117, 1791-1799	2.6	36
24	Photoconducting nanocrystalline lead sulphide thin films obtained by chemical bath deposition. *Applied Physics A: Materials Science and Processing*, **2012**, 108, 819-824	2.6	35
23	Microwave-assisted rapid synthesis of tetragonal Cu2SnS3 nanoparticles for solar photovoltaics. *Applied Physics A: Materials Science and Processing*, **2014**, 117, 1139-1146	2.6	33
22	Photovoltaic Performance of Phase-Pure Orthorhombic BiSI Thin-Films. *ACS Applied Energy Materials*, **2019**, 2, 3878-3885	6.1	26
21	Structural and optical properties of layer-by-layer solution deposited Cu2SnS3 films. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 3687-3694	2.1	26
20	Synthesis of earth-abundant Cu2SnS3 powder using solid state reaction. *Journal of Physics and Chemistry of Solids*, **2014**, 75, 410-415	3.9	26
19	Solution processed single-phase Cu2SnS3 films: structure and photovoltaic performance. *Sustainable Energy and Fuels*, **2017**, 1, 899-906	5.8	25
18	Electrical transport in layer-by-layer solution deposited Cu2SnS3 films: Effect of thickness and annealing temperature. *Applied Surface Science*, **2014**, 297, 158-166	6.7	20
17	YFeO3 Photocathodes for Hydrogen Evolution. *Electrochimica Acta*, **2017**, 246, 365-371	6.7	19
16	Single Molecular Precursor Solution for CuIn(S,Se) Thin Films Photovoltaic Cells: Structure and Device Characteristics. *ACS Applied Materials & Interfaces*, **2017**, 9, 2301-2308	9.5	19

15	Cu2ZnSnS4 thin films by simple replacement reaction route for solar photovoltaic application. *Thin Solid Films*, **2014**, 551, 42-45	2.2	19
14	Photoelectrochemical properties of BiOCl microplatelets. *Journal of Electroanalytical Chemistry*, **2018**, 819, 171-177	4.1	17
13	Impact of Sb and Na Doping on the Surface Electronic Landscape of Cu2ZnSnS4 Thin Films. *ACS Energy Letters*, **2018**, 3, 2977-2982	20.1	16
12	Spectroscopic and electrical signatures of acceptor states in solution processed Cu2ZnSn(S,Se)4 solar cells. *Journal of Materials Chemistry C*, **2017**, 5, 12720-12727	7.1	15
11	Crystal and Electronic Structure of Bismuth Thiophosphate, BiPS4: An Earth-Abundant Solar Absorber. *Chemistry of Materials*, **2020**, 32, 1235-1242	9.6	9
10	High Interfacial Hole-Transfer Efficiency at GaFeO3 Thin Film Photoanodes. *Advanced Energy Materials*, **2020**, 10, 2002784	21.8	9
9	Chalcogenide perovskites for photovoltaics: current status and prospects. *JPhys Energy*, **2021**, 3, 034010	4.9	9
8	Composition-Dependent Reactivity of Ba0.5Sr0.5CoxFe1⊠O3⊡toward the Oxygen Reduction Reaction. *Journal of Physical Chemistry C*, **2016**, 120, 22291-22297	3.8	9
7	Defect limitations in Cu2ZnSn(S, Se)4 solar cells utilizing an In2S3 buffer layer. *Journal of Applied Physics*, **2020**, 127, 205305	2.5	8
6	Textured PbI2 photocathodes obtained by gas phase anion replacement. *Electrochimica Acta*, **2017**, 254, 223-229	6.7	7
5	Kesterite Cu2ZnSnS4 thin films by drop-on-demand inkjet printing from molecular ink. *Journal of Alloys and Compounds*, **2018**, 747, 31-37	5.7	7
4	Nanostructured LaFeO3 Photocathodes with Onset Potentials for the Hydrogen Evolution Reaction Over 1.4⊡V vs. RHE. *Journal of the Electrochemical Society*, **2019**, 166, H764-H768	3.9	7
3	Promoting Active Electronic States in LaFeO Thin-Films Photocathodes via Alkaline-Earth Metal Substitution. *ACS Applied Materials & Interfaces*, **2020**, 12, 31486-31495	9.5	6
2	Mapping Shunting Paths at the Surface of CuZnSn(S,Se) Films via Energy-Filtered Photoemission Microscopy. *IScience*, **2018**, 9, 36-46	6.1	6
1	Mapping the Energetics of Defect States in CuZnSnS films and the Impact of Sb Doping.. *ACS Applied Energy Materials*, **2022**, 5, 3933-3940	6.1	0