

# Dhruba B Khadka

## List of Publications by Year in descending order

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28  
papers

1,305  
citations

394286

19  
h-index

610775

24  
g-index

29  
all docs

29  
docs citations

29  
times ranked

1784  
citing authors

#	ARTICLE	IF	CITATIONS
1	A-site tailoring in the vacancy-ordered double perovskite semiconductor Cs <sub>2</sub> SnI <sub>6</sub> for photovoltaic application. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111180.	3.0	28
2	Chemical and Electronic Investigation of Buried NiO <sub>x</sub> , PCBM, and PTAA/MAPbI <sub>3</sub> Cl Interfaces Using Hard X-ray Photoelectron Spectroscopy and Transmission Electron Microscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 50481-50490.	4.0	5
3	Insights into Accelerated Degradation of Perovskite Solar Cells under Continuous Illumination Driven by Thermal Stress and Interfacial Junction. <i>ACS Applied Energy Materials</i> , 2021, 4, 11121-11132.	2.5	29
4	Pseudohalide Functional Additives in Tin Halide Perovskite for Efficient and Stable Pb-Free Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 12819-12826.	2.5	20
5	Attenuating the defect activities with a rubidium additive for efficient and stable Sn-based halide perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2307-2313.	2.7	41
6	Photoinduced ion-redistribution in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 25118-25125.	1.3	13
7	Effect of solvent vapour annealing on bismuth triiodide film for photovoltaic applications and its optoelectronic properties. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12173-12180.	2.7	19
8	Ammoniated aqueous precursor ink processed copper iodide as hole transport layer for inverted planar perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020, 210, 110486.	3.0	30
9	Passivation of the Recombination Activities with Rubidium incorporation for Efficient and Stable Sn-HaP Solar Cells. , 2020, , .		1
10	Unraveling the Impacts Induced by Organic and Inorganic Hole Transport Layers in Inverted Halide Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 7055-7065.	4.0	49
11	Tailoring the film morphology and interface band offset of caesium bismuth iodide-based Pb-free perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8335-8343.	2.7	78
12	Aqueous Solution Processed Copper Iodide as Hole Transport Material For Planar Inverted Perovskite Solar Cells. , 2019, , .		1
13	Degradation of encapsulated perovskite solar cells driven by deep trap states and interfacial deterioration. <i>Journal of Materials Chemistry C</i> , 2018, 6, 162-170.	2.7	91
14	Exploring the Recombination Mechanism Induced by Carrier Transport Layers in Perovskite Solar Cells. , 2018, , .		2
15	Tailoring the Open-Circuit Voltage Deficit of Wide-Band-Gap Perovskite Solar Cells Using Alkyl Chain-Substituted Fullerene Derivatives. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 22074-22082.	4.0	57
16	Enhancement in efficiency and optoelectronic quality of perovskite thin films annealed in MAI vapor. <i>Sustainable Energy and Fuels</i> , 2017, 1, 755-766.	2.5	77
17	Exploring the effects of interfacial carrier transport layers on device performance and optoelectronic properties of planar perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8819-8827.	2.7	106
18	Ge-alloyed CZTSe thin film solar cell using molecular precursor adopting spray pyrolysis approach. <i>RSC Advances</i> , 2016, 6, 37621-37627.	1.7	37

#	ARTICLE	IF	CITATIONS
19	Effects of Ge Alloying on Device Characteristics of Kesterite-Based CZTSSe Thin Film Solar Cells. Journal of Physical Chemistry C, 2016, 120, 4251-4258.	1.5	63
20	Band Gap Engineering of Alloyed $\text{Cu}_2\text{ZnGe}_{1-x}\text{Sn}_x\text{Q}_4$ (Q = S,Se) Films for Solar Cell. Journal of Physical Chemistry C, 2015, 119, 1706-1713.	1.5	127
21	Sulfur stoichiometry driven chalcopyrite and pyrite structure of spray pyrolyzed Cu-alloyed $\text{FeS}_2$ thin films. Materials Science in Semiconductor Processing, 2015, 40, 325-330.	1.9	12
22	Structural, optical and electrical properties of $\text{Cu}_2\text{FeSnX}_4$ (X=S, Se) thin films prepared by chemical spray pyrolysis. Journal of Alloys and Compounds, 2015, 638, 103-108.	2.8	64
23	A Nonvacuum Approach for Fabrication of $\text{Cu}_2\text{ZnSnSe}_4/\text{In}_2\text{S}_3$ Thin Film Solar Cell and Optoelectronic Characterization. Journal of Physical Chemistry C, 2015, 119, 12226-12235.	1.5	76
24	Effects of Na and $\text{MoS}_2$ on $\text{Cu}_2\text{ZnSnS}_4$ thin film solar cell. Progress in Photovoltaics: Research and Applications, 2015, 23, 862-873.	4.4	108
25	Structural Transition and Band Gap Tuning of $\text{Cu}_2(\text{Zn,Fe})\text{SnS}_4$ Chalcogenide for Photovoltaic Application. Journal of Physical Chemistry C, 2014, 118, 14227-14237.	1.5	85
26	Study of $\text{In}_x(\text{O,OH,S})_y$ buffer layer effect on CIGSe thin film solar cells. Current Applied Physics, 2014, 14, S17-S22.	1.1	8
27	Study of structural and optical properties of kesterite $\text{Cu}_2\text{ZnGeX}_4$ (X = S, Se) thin films synthesized by chemical spray pyrolysis. CrystEngComm, 2013, 15, 10500.	1.3	78
28	Exploring the Effect Induced by Hole Transport Layers in Inverted Halide Perovskite Solar Cells. , 0, , .		0