

Fan Fu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4142126/publications.pdf>

Version: 2024-02-01

48
papers

4,659
citations

159585

30
h-index

289244

40
g-index

50
all docs

50
docs citations

50
times ranked

5771
citing authors

#	ARTICLE	IF	CITATIONS
1	Planar perovskite solar cells with long-term stability using ionic liquid additives. <i>Nature</i> , 2019, 571, 245-250.	27.8	1,103
2	Vapor-assisted deposition of highly efficient, stable black-phase FAPbI ₃ perovskite solar cells. <i>Science</i> , 2020, 370, .	12.6	530
3	Low-temperature-processed efficient semi-transparent planar perovskite solar cells for bifacial and tandem applications. <i>Nature Communications</i> , 2015, 6, 8932.	12.8	398
4	Self-propagating high-temperature synthesis for compound thermoelectrics and new criterion for combustion processing. <i>Nature Communications</i> , 2014, 5, 4908.	12.8	302
5	High-efficiency inverted semi-transparent planar perovskite solar cells in substrate configuration. <i>Nature Energy</i> , 2017, 2, .	39.5	247
6	High-Efficiency Polycrystalline Thin Film Tandem Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2676-2681.	4.6	166
7	I ₂ vapor-induced degradation of formamidinium lead iodide based perovskite solar cells under heat–light soaking conditions. <i>Energy and Environmental Science</i> , 2019, 12, 3074-3088.	30.8	131
8	Interfacial Passivation Engineering of Perovskite Solar Cells with Fill Factor over 82% and Outstanding Operational Stability on n-i-p Architecture. <i>ACS Energy Letters</i> , 2021, 6, 3916-3923.	17.4	115
9	Wide-bandgap organic–inorganic hybrid and all-inorganic perovskite solar cells and their application in all-perovskite tandem solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 5723-5759.	30.8	114
10	Unveiling Roles of Tin Fluoride Additives in High-Efficiency Low-Bandgap Mixed Tin–Lead Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2101045.	19.5	101
11	Monolithic Perovskite–Silicon Tandem Solar Cells: From the Lab to Fab?. <i>Advanced Materials</i> , 2022, 34, e2106540.	21.0	92
12	Decoupling the effects of defects on efficiency and stability through phosphonates in stable halide perovskite solar cells. <i>Joule</i> , 2021, 5, 1246-1266.	24.0	91
13	Perovskite/Perovskite/Silicon Monolithic Triple-Junction Solar Cells with a Fully Textured Design. <i>ACS Energy Letters</i> , 2018, 3, 2052-2058.	17.4	87
14	Improved Thermoelectric Properties of Al-Doped Higher Manganese Silicide Prepared by a Rapid Solidification Method. <i>Journal of Electronic Materials</i> , 2011, 40, 1233-1237.	2.2	84
15	Instability of p–i–n perovskite solar cells under reverse bias. <i>Journal of Materials Chemistry A</i> , 2020, 8, 242-250.	10.3	76
16	Efficiency Improvement of Near-Stoichiometric CuInSe ₂ Solar Cells for Application in Tandem Devices. <i>Advanced Energy Materials</i> , 2019, 9, 1901428.	19.5	69
17	Mitigation of Vacuum and Illumination-Induced Degradation in Perovskite Solar Cells by Structure Engineering. <i>Joule</i> , 2020, 4, 1087-1103.	24.0	69
18	Nanoscale interfacial engineering enables highly stable and efficient perovskite photovoltaics. <i>Energy and Environmental Science</i> , 2021, 14, 5552-5562.	30.8	69

#	ARTICLE	IF	CITATIONS
19	Flexible NIR-transparent perovskite solar cells for all-thin-film tandem photovoltaic devices. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13639-13647.	10.3	68
20	Compositionally Graded Absorber for Efficient and Stable Near-Infrared-Transparent Perovskite Solar Cells. <i>Advanced Science</i> , 2018, 5, 1700675.	11.2	65
21	Controlled growth of PbI_2 nanoplates for rapid preparation of $\text{CH}_3\text{NH}_3\text{PbI}_3$ in planar perovskite solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2708-2717.	1.8	63
22	Near-Infrared-Transparent Perovskite Solar Cells and Perovskite-Based Tandem Photovoltaics. <i>Small Methods</i> , 2020, 4, 2000395.	8.6	63
23	Bandgap of thin film solar cell absorbers: A comparison of various determination methods. <i>Thin Solid Films</i> , 2019, 669, 482-486.	1.8	56
24	Mitigating Plasmonic Absorption Losses at Rear Electrodes in High-Efficiency Silicon Solar Cells Using Dopant-Free Contact Stacks. <i>Advanced Functional Materials</i> , 2020, 30, 1907840.	14.9	55
25	High-Mobility In_2O_3 :H Electrodes for Four-Terminal Perovskite/ CuInSe_2 Tandem Solar Cells. <i>ACS Nano</i> , 2020, 14, 7502-7512.	14.6	54
26	Degradation and self-repairing in perovskite light-emitting diodes. <i>Matter</i> , 2021, 4, 3710-3724.	10.0	51
27	Enhanced Thermoelectric Performance and Thermal Stability in $\text{In}_2\text{Zn}_4\text{Sb}_3$ by Slight Pb-Doping. <i>Journal of Electronic Materials</i> , 2012, 41, 1091-1099.	2.2	39
28	CNT-based bifacial perovskite solar cells toward highly efficient 4-terminal tandem photovoltaics. <i>Energy and Environmental Science</i> , 2022, 15, 1536-1544.	30.8	39
29	Tailored lead iodide growth for efficient flexible perovskite solar cells and thin-film tandem devices. <i>NPG Asia Materials</i> , 2018, 10, 1076-1085.	7.9	35
30	RbF post deposition treatment for narrow bandgap $\text{Cu}(\text{In,Ga})\text{Se}_2$ solar cells. <i>Thin Solid Films</i> , 2019, 670, 34-40.	1.8	33
31	Impact of interlayer application on band bending for improved electron extraction for efficient flexible perovskite mini-modules. <i>Nano Energy</i> , 2018, 49, 300-307.	16.0	32
32	Optimizing thermoelectric performance of Cd-doped $\text{In}_2\text{Zn}_4\text{Sb}_3$ through self-adjusting carrier concentration. <i>Intermetallics</i> , 2011, 19, 1823-1830.	3.9	31
33	Thermal-induced interface degradation in perovskite light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15079-15085.	5.5	30
34	Multimodal Microscale Imaging of Textured Perovskite-Silicon Tandem Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 2293-2304.	17.4	25
35	Revealing the perovskite formation kinetics during chemical vapour deposition. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21973-21982.	10.3	24
36	Voids and compositional inhomogeneities in $\text{Cu}(\text{In,Ga})\text{Se}_2$ thin films: evolution during growth and impact on solar cell performance. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 871-882.	6.1	23

#	ARTICLE	IF	CITATIONS
37	Triple-cation perovskite solar cells fabricated by a hybrid PVD/blade coating process using green solvents. Journal of Materials Chemistry A, 2021, 9, 26680-26687.	10.3	17
38	Laser Patterned Flexible 4T Perovskite/Cu(In,Ga)Se ₂ Tandem Mini-module with Over 18% Efficiency. Solar Rrl, 2022, 6, .	5.8	6
39	IZO or IOH Window Layers Combined with Zn(O,S) and CdS Buffers for Cu(In,Ga)Se ₂ Solar Cells. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700688.	1.8	3
40	Hybrid sequential deposition process for fully textured perovskite/silicon tandem solar cells. , 2018, , .		2
41	Nanoscale interfacial engineering enables highly stable and efficient perovskite photovoltaics. , 0, , .		0
42	Nanoscale interfacial engineering enables highly stable and efficient perovskite photovoltaics. , 2021, , .		0
43	Hybrid Fabrication Method for High Efficiency Monolithic Perovskite/Silicon Tandem Solar Cells. , 0, , .		0
44	Photoinduced Halide Segregation and Diffusion in Mixed-halide Perovskite Solar Cells. , 0, , .		0
45	Stability of perovskite and two terminal Si/perovskite tandem solar cells under reverse bias. , 0, , .		0
46	A nanometric view on performance-loss mechanisms in perovskite/c-Si multi-junction solar cells. , 0, , .		0
47	Triple-cation perovskite solar cells fabricated by a hybrid PVD/blade coating process using green solvents. , 0, , .		0
48	Perovskite-based Flexible Thin-film Tandem Solar Cells. , 0, , .		0