

Hao Wang

List of Publications by Year in descending order

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37
papers

1,635
citations

331259

21
h-index

360668

35
g-index

37
all docs

37
docs citations

37
times ranked

2191
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Efficient Thermally Co-evaporated Perovskite Solar Cells and Mini-modules. <i>Joule</i> , 2020, 4, 1035-1053.	11.7	257
2	High efficiency planar Si/organic heterojunction hybrid solar cells. <i>Applied Physics Letters</i> , 2012, 100, 073503.	1.5	148
3	Over 20% Efficient CIGS/Perovskite Tandem Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 807-812.	8.8	135
4	Highly efficient Si-nanorods/organic hybrid core-sheath heterojunction solar cells. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	102
5	High Efficiency Si/Polymer Hybrid Solar Cells Based on Synergistic Surface Texturing of Si Nanowires on Pyramids. <i>Small</i> , 2012, 8, 1664-1668.	5.2	95
6	Si photocathode with Ag-supported dendritic Cu catalyst for CO ₂ reduction. <i>Energy and Environmental Science</i> , 2019, 12, 1068-1077.	15.6	93
7	Bifacial, Color-Tunable Semitransparent Perovskite Solar Cells for Building-Integrated Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 484-493.	4.0	80
8	Simple Approach of Fabricating High Efficiency Si Nanowire/Conductive Polymer Hybrid Solar Cells. <i>IEEE Electron Device Letters</i> , 2011, 32, 1406-1408.	2.2	77
9	Highly Efficient Semitransparent Perovskite Solar Cells for Four Terminal Perovskite-Silicon Tandems. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34178-34187.	4.0	71
10	Si Nanowires Organic Semiconductor Hybrid Heterojunction Solar Cells Toward 10% Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1704-1708.	4.0	69
11	Characteristics of a Silicon Nanowires/PEDOT:PSS Heterojunction and Its Effect on the Solar Cell Performance. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5830-5836.	4.0	50
12	Effects of nanowire texturing on the performance of Si/organic hybrid solar cells fabricated with a 2.2-µm thin-film Si absorber. <i>Applied Physics Letters</i> , 2012, 100, 103104.	1.5	47
13	High Efficiency Silicon Nanowire/organic Hybrid Solar Cell with Two-step Surface Treatment. <i>Nanoscale</i> , 2015, 7, 4559-65.	2.8	40
14	Co-evaporated MAPbI ₃ with Graded Fermi Levels Enables Highly Performing, Scalable, and Flexible Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2103252.	7.8	40
15	Colorful Perovskite Solar Cells: Progress, Strategies, and Potentials. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1321-1329.	2.1	39
16	Halide Perovskite Solar Cells for Building Integrated Photovoltaics: Transforming Building Facades into Power Generators. <i>Advanced Materials</i> , 2022, 34, e2104661.	11.1	37
17	Design principles for plasmonic thin film GaAs solar cells with high absorption enhancement. <i>Journal of Applied Physics</i> , 2012, 112, 054326.	1.1	33
18	High efficiency silicon nanohole/organic heterojunction hybrid solar cell. <i>Applied Physics Letters</i> , 2014, 104, 053104.	1.5	30

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19	Design guidelines for slanting silicon nanowire arrays for solar cell application. Journal of Applied Physics, 2013, 114, .	1.1	29
20	Hybrid Si nanocones/PEDOT:PSS solar cell. Nanoscale Research Letters, 2015, 10, 191.	3.1	26
21	Thin Film Silicon Nanowire/PEDOT:PSS Hybrid Solar Cells with Surface Treatment. Nanoscale Research Letters, 2016, 11, 311.	3.1	23
22	Crystallization and surface texturing of amorphous-Si induced by UV laser for photovoltaic application. Journal of Applied Physics, 2012, 111, .	1.1	16
23	Design guideline of Si nanohole/PEDOT:PSS hybrid structure for solar cell application. Nanotechnology, 2013, 24, 355301.	1.3	15
24	Four-terminal Perovskite on Silicon Tandem Solar Cells Optimal Measurement Schemes. Energy Technology, 2020, 8, 1901267.	1.8	13
25	Interlayer Engineering for Flexible Large-Area Planar Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 777-784.	2.5	13
26	Simulated optical absorption enhancement in random silicon nanohole structure for solar cell application. Journal of Applied Physics, 2014, 116, .	1.1	9
27	Light trapping in hybrid nanopyramid and nanohole structure silicon solar cell beyond the Lambertian limit. Journal of Applied Physics, 2014, 116, 074310.	1.1	9
28	Efficient bandgap widening in co-evaporated MAPbI ₃ perovskite. Sustainable Energy and Fuels, 2022, 6, 2428-2438.	2.5	8
29	11.3% efficient planar Si-PEDOT: PSS hybrid solar cell with a thin interfacial oxide. , 2012, , .		7
30	Towards Perfect Anti-Reflection and Absorption for Nanodome-Array Thin Film Silicon Solar Cell. Energy Procedia, 2013, 33, 150-156.	1.8	6
31	Enhanced Conversion Efficiency for Si Nanowire-Organic Hybrid Solar Cells through the Incorporation of Organic Small Molecule. Japanese Journal of Applied Physics, 2012, 51, 10NE36.	0.8	5
32	Optical absorption enhancement in a Si nanohole structure with hexagonal unit cell for solar cell application. Nanotechnology, 2014, 25, 415303.	1.3	4
33	High-Efficiency Planar Thin-Film Si/PEDOT:PSS Hybrid Solar Cell. IEEE Journal of Photovoltaics, 2016, 6, 217-222.	1.5	3
34	Surface Nanostructure Optimization for GaAs Solar Cell Application. Japanese Journal of Applied Physics, 2012, 51, 10ND13.	0.8	2
35	Si/PEDOT:PSS hybrid solar cells incorporated with silver plasmonic nanospheres. Thin Solid Films, 2016, 599, 37-41.	0.8	2
36	Enhanced Conversion Efficiency for Si Nanowire-Organic Hybrid Solar Cells through the Incorporation of Organic Small Molecule. Japanese Journal of Applied Physics, 2012, 51, 10NE36.	0.8	2

#	ARTICLE	IF	CITATIONS
37	Nanohole structure as efficient antireflection layer for silicon solar cell fabricated by maskless laser annealing. , 2012, , .		0