

Qiming Liu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Improved comprehensive performance of CsPbI ₂ Br perovskite solar cells by modifying the photoactive layers with carbon nanodots. <i>Journal of Materiomics</i> , 2022, 8, 358-365.	5.7	13
2	SnCl ₄ -Treated Ti ₃ C ₂ MXene ₂ as a Back Contact for Perovskite Solar Cells. <i>Science China Materials</i> , 2022, 65, 8903-8910.	8.0	10
3	Synergetic effects of a front ITO nanocylinder array and a back square Al array to enhance light absorption for organic solar cells. <i>Applied Optics</i> , 2022, 61, 1726.	1.8	2
4	Sheet-Like Stacking SnS ₂ /rGO Heterostructures as Ultrastable Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11739-11749.	8.0	28
5	NaBr-Modified CsPbI ₂ Br Improves the Comprehensive Performance of the Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2022, 12, 948-953.	2.5	6
6	Solution-Processed Back-Contact PEDOT:PSS/n-Si Heterojunction Solar Cells. <i>ACS Applied Energy Materials</i> , 2022, 5, 5502-5507.	5.1	4
7	SnCl ₄ -Treated Ti ₃ C ₂ MXene Nanosheets for Schottky Junction Solar Cells with Improved Performance. <i>ACS Applied Nano Materials</i> , 2022, 5, 10064-10072.	5.0	6
8	Hybrid energy system based on solar cell and self-healing/self-cleaning triboelectric nanogenerator. <i>Nano Energy</i> , 2021, 79, 105394.	16.0	56
9	Sandwich-like SnS ₂ /graphene multilayers for efficient lithium/sodium storage. <i>Dalton Transactions</i> , 2021, 50, 14884-14890.	3.3	6
10	MXenes for Solar Cells. <i>Nano-Micro Letters</i> , 2021, 13, 78.	27.0	90
11	Twenty Percent Efficiency Crystalline Silicon Solar Cells with Solution-Processed Electron-Selective Contacts. <i>ACS Applied Energy Materials</i> , 2021, 4, 3644-3650.	5.1	8
12	Improvement of the Optoelectrical Properties of a Transparent Conductive Polymer via the Introduction of ITO Nanoparticles and Its Application in Crystalline Silicon/Organic Heterojunction Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31171-31179.	8.0	5
13	High-Efficiency Si/PEDOT:PSS Hybrid Heterojunction Solar Cells Using Solution-Processed Graphene Oxide as an Antireflection and Inversion-Induced Layer. <i>ACS Applied Energy Materials</i> , 2021, 4, 13279-13287.	5.1	5
14	Bridging for Carriers by Embedding Metal Oxide Nanoparticles in the Photoactive Layer to Enhance Performance of Polymer Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 1353-1358.	2.5	16
15	Improvement of the Optoelectrical Properties of a Transparent Conductive Polymer via a Simple Mechanical Pressure Treatment. <i>ACS Omega</i> , 2020, 5, 7545-7554.	3.5	5
16	Enhanced performance and the related mechanisms of organic solar cells using Li-doped SnO ₂ as the electron transport layer. <i>Materials Chemistry and Physics</i> , 2020, 254, 123536.	4.0	9
17	Nb ₂ O ₅ /RGO Nanocomposite Modified Separators with Robust Polysulfide Traps and Catalytic Centers for Boosting Performance of Lithium-Sulfur Batteries. <i>Small</i> , 2019, 15, e1902363.	10.0	83
18	Enhanced performance of polymer solar cells by adding SnO ₂ nanoparticles in the photoactive layer. <i>Organic Electronics</i> , 2019, 73, 7-12.	2.6	21

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19	Mesoporous boron carbon nitride/graphene modified separators as efficient polysulfides barrier for highly stable lithium-sulfur batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 842, 34-40.	3.8	24
20	High-performance free-standing capacitor electrodes of multilayered Co ₉ S ₈ plates wrapped by carbonized poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate)/reduced graphene oxide. <i>Journal of Power Sources</i> , 2018, 379, 167-173.	7.8	59
21	MoS ₂ /Ni ₃ S ₄ composite nanosheets on interconnected carbon shells as an excellent supercapacitor electrode architecture for long term cycling at high current densities. <i>Applied Surface Science</i> , 2018, 440, 741-747.	6.1	49
22	Optical Anisotropy and Compositional Ratio of Conductive Polymer PEDOT:PSS and Their Effect on Photovoltaic Performance of Crystalline Silicon/Organic Heterojunction Solar Cells. , 2018, , 137-159.		4
23	Excellent Light Confinement of Hemiellipsoid- and Inverted Hemiellipsoid-Modified Semiconductor Nanowire Arrays. <i>Nanoscale Research Letters</i> , 2018, 13, 236.	5.7	6
24	Self-Support Surface Enhanced Raman Scattering Substrates with the Function of Enriching Analytes. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800559.	3.7	1
25	Molybdenum disulfide nanosheets embedded in hollow nitrogen-doped carbon spheres for efficient lithium/sodium storage with enhanced electrochemical kinetics. <i>Electrochimica Acta</i> , 2018, 283, 646-654.	5.2	24
26	High performance silicon-organic hybrid solar cells via improving conductivity of PEDOT:PSS with reduced graphene oxide. <i>Applied Surface Science</i> , 2017, 407, 398-404.	6.1	51
27	High-performance Si/organic hybrid solar cells using a novel cone-shaped Si nanoholes structures and back surface passivation layer. <i>Nano Energy</i> , 2017, 41, 519-526.	16.0	18
28	Group IVA Element (Si, Ge, Sn)-Based Alloying/Dealloying Anodes as Negative Electrodes for Full-Cell Lithium-Ion Batteries. <i>Small</i> , 2017, 13, 1702000.	10.0	163
29	Dual functional MoS ₂ /graphene interlayer as an efficient polysulfide barrier for advanced lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2017, 256, 28-36.	5.2	106
30	Facile embedding of SiO ₂ nanoparticles in organic solar cells for performance improvement. <i>Organic Electronics</i> , 2017, 50, 77-81.	2.6	25
31	Greatly improved cyclability for Li-ion batteries with a PEDOT-PSS coated nanostructured Ge anode. <i>Surfaces and Interfaces</i> , 2017, 8, 214-218.	3.0	14
32	Correlation between the fine structure of spin-coated PEDOT:PSS and the photovoltaic performance of organic/crystalline-silicon heterojunction solar cells. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	46
33	Nafion-Modified PEDOT:PSS as a Transparent Hole-Transporting Layer for High-Performance Crystalline-Si/Organic Heterojunction Solar Cells with Improved Light Soaking Stability. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31926-31934.	8.0	63
34	Solution-processed crystalline silicon double-heterojunction solar cells. <i>Applied Physics Express</i> , 2016, 9, 022301.	2.4	15
35	High-defect hydrophilic carbon cuboids anchored with Co/CoO nanoparticles as highly efficient and ultra-stable lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10166-10173.	10.3	179
36	Highly Efficient Solution-Processed Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate)/Crystalline-Silicon Heterojunction Solar Cells with Improved Light-Induced Stability. <i>Advanced Energy Materials</i> , 2015, 5, 1500744.	19.5	85

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37	Solution-Processed Organic/Crystalline-Silicon Heterojunction Solar Cells with Improved Light-Induced Stability. , 2015, , .		0
38	Efficient organic/polycrystalline silicon hybrid solar cells. Nano Energy, 2015, 11, 260-266.	16.0	18
39	Improved performance of poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate)/n-Si hybrid solar cell by incorporating silver nanoparticles. Japanese Journal of Applied Physics, 2014, 53, 110305.	1.5	7
40	Oxygen passivation of silicon nanocrystals: Influences on trap states, electron mobility, and hybrid solar cell performance. Nano Energy, 2014, 10, 322-328.	16.0	42
41	Self-assembled silver nanowires as top electrode for poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate)/n-silicon solar cell. Thin Solid Films, 2014, 558, 306-310.	1.8	16
42	Plasmonic-enhanced crystalline silicon/organic heterojunction cells by incorporating gold nanoparticles. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1179-1183.	1.8	12
43	Improved photovoltaic response by incorporating green tea modified multiwalled carbon nanotubes in organic-inorganic hybrid solar cell. Canadian Journal of Physics, 2014, 92, 849-852.	1.1	2
44	Silicon nanocrystal conjugated polymer hybrid solar cells with improved performance. Nano Energy, 2014, 9, 25-31.	16.0	50
45	Self assembled silver nanowire mesh as top electrode for organic-inorganic hybrid solar cell. Canadian Journal of Physics, 2014, 92, 867-870.	1.1	7
46	Green-tea modified multiwalled carbon nanotubes for efficient poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate)/n-silicon hybrid solar cell. Applied Physics Letters, 2013, 102, .	3.3	31
47	Optical anisotropy in solvent-modified poly(3,4-ethylenedioxythiophene):poly(styrenesulfonic acid) and its effect on the photovoltaic performance of crystalline silicon/organic heterojunction solar cells. Applied Physics Letters, 2013, 102, .	3.3	43
48	Electrospray Deposition of Poly(3-hexylthiophene) Films for Crystalline Silicon/Organic Hybrid Junction Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 061602.	1.5	5
49	Optical properties and carrier transport in c-Si/conductive PEDOT:PSS(GO) composite heterojunctions. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2075-2078.	0.8	13
50	Efficient crystalline Si/organic hybrid heterojunction solar cells. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2101-2106.	0.8	8
51	Highly efficient crystalline silicon/Zonyl fluorosurfactant-treated organic heterojunction solar cells. Applied Physics Letters, 2012, 100, .	3.3	102
52	Electrospray Deposition of Poly(3-hexylthiophene) Films for Crystalline Silicon/Organic Hybrid Junction Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 061602.	1.5	4
53	Crystalline Silicon/Graphene Oxide Hybrid Junction Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 10NE22.	1.5	5
54	Nanostructured NiO electrode for high rate Li-ion batteries. Journal of Materials Chemistry, 2011, 21, 3571.	6.7	330

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55	The optoelectronic properties of silicon films deposited by inductively coupled plasma CVD. Applied Surface Science, 2010, 257, 817-822.	6.1	14
56	The effect of Ar flow rate in the growth of SiGe:H thin films by PECVD. Applied Surface Science, 2010, 256, 7032-7036.	6.1	6
57	Effect of Ar in the source gas on the microstructure and optoelectronic properties of microcrystalline silicon films deposited by plasma-enhanced CVD. Applied Surface Science, 2010, 257, 1342-1346.	6.1	12
58	The influence of H ₂ /Ar ratio on Ge content of the $\text{Si}_{1-x}\text{Ge}_x$ -SiGe:H films deposited by PECVD. Journal of Alloys and Compounds, 2010, 504, 403-406.	5.5	17
59	Solution-Processed Organic/p-Type Silicon Hybrid Heterojunction Solar Cells. Physica Status Solidi - Rapid Research Letters, 0, , 2000560.	2.4	4