Kai Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61 3,972 31 63 g-index

67 4,656 15.4 5.78 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
61	Probe of the excitonic transitions and lifetimes in quasi-2D organicIhorganic halide perovskites. <i>AIP Advances</i> , 2022 , 12, 015114	1.5	
60	Bio-inspired strategies for next-generation perovskite solar mobile power sources. <i>Chemical Society Reviews</i> , 2021 , 50, 12915-12984	58.5	2
59	Self-Powered Red/UV Narrowband Photodetector by Unbalanced Charge Carrier Transport Strategy. <i>Advanced Functional Materials</i> , 2021 , 31, 2007016	15.6	18
58	Dne-key-resetlrecycling of whole perovskite solar cell. <i>Matter</i> , 2021 , 4, 2522-2541	12.7	10
57	Cost-Effective High-Performance Charge-Carrier-Transport-Layer-Free Perovskite Solar Cells Achieved by Suppressing Ion Migration. <i>ACS Energy Letters</i> , 2021 , 6, 3044-3052	20.1	16
56	A Nonionic and Low-Entropic MA(MMA)nPbI3-Ink for Fast Crystallization of Perovskite Thin Films. <i>Joule</i> , 2020 , 4, 615-630	27.8	23
55	Organismic materials for beyond von Neumann machines. <i>Applied Physics Reviews</i> , 2020 , 7, 011309	17.3	12
54	Multifunctional nanostructured materials for next generation photovoltaics. <i>Nano Energy</i> , 2020 , 70, 10	4 48 0	25
53	Pitch Gradation by Ion-Dragging Effect in Polymer-Stabilized Cholesteric Liquid Crystal Reflector Device. <i>Polymers</i> , 2020 , 12,	4.5	6
52	Nature of terrace edge states (TES) in lower-dimensional halide perovskite. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7659-7670	13	8
51	High performance perovskites solar cells by hybrid perovskites co-crystallized with poly(ethylene oxide). <i>Nano Energy</i> , 2020 , 67, 104229	17.1	31
50	Artemisinin (ART)-Induced perovskite/perovskitelbilayer structured photovoltaics. <i>Nano Energy</i> , 2020 , 78, 105133	17.1	11
49	Two-dimensional hybrid organicIhorganic perovskites as emergent ferroelectric materials. <i>Journal of Applied Physics</i> , 2020 , 128, 060906	2.5	13
48	Isothermally crystallized perovskites at room-temperature. <i>Energy and Environmental Science</i> , 2020 , 13, 3412-3422	35.4	71
47	Monocrystalline perovskite wafers/thin films for photovoltaic and transistor applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24661-24690	13	18
46	Solution-Processed Ultrahigh Detectivity Photodetectors by Hybrid Perovskite Incorporated with Heterovalent Neodymium Cations. <i>ACS Omega</i> , 2019 , 4, 15873-15878	3.9	10
45	Enhanced Performance and Stability in DNA-Perovskite Heterostructure-Based Solar Cells. <i>ACS Energy Letters</i> , 2019 , 4, 2646-2655	20.1	26

44	Ultrahigh Durability Perovskite Solar Cells. <i>Nano Letters</i> , 2019 , 19, 1251-1259	11.5	27
43	Nonionic Sc3[email[protected]80 Dopant for Efficient and Stable Halide Perovskite Photovoltaics. <i>ACS Energy Letters</i> , 2019 , 4, 1852-1861	20.1	28
42	Stable Efficiency Exceeding 20.6% for Inverted Perovskite Solar Cells through Polymer-Optimized PCBM Electron-Transport Layers. <i>Nano Letters</i> , 2019 , 19, 3313-3320	11.5	111
41	Efficient perovskite solar cells by hybrid perovskites incorporated with heterovalent neodymium cations. <i>Nano Energy</i> , 2019 , 61, 352-360	17.1	53
40	Fullerene Polymer Complex Inducing Dipole Electric Field for Stable Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1804419	15.6	28
39	Melanin B erovskite Composites for Photothermal Conversion. <i>Advanced Energy Materials</i> , 2019 , 9, 1901	7 5 38	18
38	Distinct conducting layer edge states in two-dimensional (2D) halide perovskite. <i>Science Advances</i> , 2019 , 5, eaau3241	14.3	47
37	Recent progress in fundamental understanding of halide perovskite semiconductors. <i>Progress in Materials Science</i> , 2019 , 106, 100580	42.2	69
36	Mono-crystalline Perovskite Photovoltaics toward Ultrahigh Efficiency?. Joule, 2019, 3, 311-316	27.8	33
35	Quasi-Two-Dimensional Halide Perovskite Single Crystal Photodetector. ACS Nano, 2018, 12, 4919-4929	16.7	178
34	Wide-Bandgap Perovskite Solar Cells With Large Open-Circuit Voltage of 1653 mV Through Interfacial Engineering. <i>Solar Rrl</i> , 2018 , 2, 1800083	7.1	51
33	High efficiency planar-type perovskite solar cells with negligible hysteresis using EDTA-complexed SnO. <i>Nature Communications</i> , 2018 , 9, 3239	17.4	721
32	All electrospray printed perovskite solar cells. <i>Nano Energy</i> , 2018 , 53, 440-448	17.1	31
31	Efficient Polymer Solar Cells by Lithium Sulfonated Polystyrene as a Charge Transport Interfacial Layer. <i>ACS Applied Materials & Damp; Interfaces</i> , 2017 , 9, 5348-5357	9.5	28
30	NiSe@MoSe Nanosheet Arrays as the Electrode for High-Performance Supercapacitors. <i>ACS Applied Materials & Acs Applied & A</i>	9.5	160
29	Ionic liquid induced surface trap-state passivation for efficient perovskite hybrid solar cells. <i>Organic Electronics</i> , 2017 , 41, 42-48	3.5	32
28	Inverted polymer solar cells with Zn 2 SnO 4 nanoparticles as the electron extraction layer. <i>Chinese Chemical Letters</i> , 2017 , 28, 1755-1759	8.1	2
27	Perovskite hybrid solar cells with a fullerene derivative electron extraction layer. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4190-4197	7.1	20

26	Radical polymers as interfacial layers in inverted hybrid perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23831-23839	13	32
25	Moderately reduced graphene oxide/PEDOT:PSS as hole transport layer to fabricate efficient perovskite hybrid solar cells. <i>Organic Electronics</i> , 2016 , 39, 288-295	3.5	36
24	High Performance Perovskite Hybrid Solar Cells with E-beam-Processed TiOx Electron Extraction Layer. <i>ACS Applied Materials & amp; Interfaces</i> , 2016 , 8, 1876-83	9.5	37
23	Low bandgap semiconducting polymers for polymeric photovoltaics. <i>Chemical Society Reviews</i> , 2016 , 45, 4825-46	58.5	372
22	Efficient Perovskite Hybrid Solar Cells by Highly Electrical Conductive PEDOT:PSS Hole Transport Layer. <i>Advanced Energy Materials</i> , 2016 , 6, 1501773	21.8	113
21	Inverted organic photovoltaic cells. <i>Chemical Society Reviews</i> , 2016 , 45, 2937-75	58.5	153
20	PbS quantum dots-induced trap-assisted charge injection in perovskite photodetectors. <i>Nano Energy</i> , 2016 , 30, 27-35	17.1	79
19	Preparation of TiO2MWCNT core/shell heterostructures containing a single MWCNT and their electromagnetic properties. <i>Composite Interfaces</i> , 2015 , 22, 343-351	2.3	2
18	Ultrasensitive solution-processed perovskite hybrid photodetectors. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 6600-6606	7.1	88
17	Polyaniline-Modified Oriented Graphene Hydrogel Film as the Free-Standing Electrode for Flexible Solid-State Supercapacitors. <i>ACS Applied Materials & Description of the Free-Standing Electrode for Flexible Solid-State Supercapacitors.</i>	9.5	68
16	Efficient Perovskite Hybrid Solar Cells via Controllable Crystallization Film Morphology. <i>IEEE Journal of Photovoltaics</i> , 2015 , 5, 1402-1407	3.7	4
15	Ultrasensitive solution-processed broad-band photodetectors using CHNHPbllperovskite hybrids and PbS quantum dots as light harvesters. <i>Nanoscale</i> , 2015 , 7, 16460-9	7.7	90
14	High performance planar heterojunction perovskite solar cells with fullerene derivatives as the electron transport layer. <i>ACS Applied Materials & Description</i> (2015), 7, 1153-9	9.5	90
13	Efficient Perovskite Hybrid Solar Cells via Ionomer Interfacial Engineering. <i>Advanced Functional Materials</i> , 2015 , 25, 6875-6884	15.6	48
12	Design of TiO2@graphene nanosheets with rough surface and its reinforcement to polyarylene ether nitriles. <i>Polymers for Advanced Technologies</i> , 2015 , 26, 1267-1274	3.2	1
11	Polymer-based composites with improved energy density and dielectric constants by monoaxial hot-stretching for organic film capacitor applications. <i>RSC Advances</i> , 2015 , 5, 51975-51982	3.7	8
10	Efficient Perovskite Hybrid Solar Cells Through a Homogeneous High-Quality Organolead Iodide Layer. <i>Small</i> , 2015 , 11, 3369-76	11	40
9	Single-junction polymer solar cells with over 10% efficiency by a novel two-dimensional donor-acceptor conjugated copolymer. <i>ACS Applied Materials & Discrete Section</i> , 7, 4928-35	9.5	241

LIST OF PUBLICATIONS

8	Bulk heterojunction perovskite hybrid solar cells with large fill factor. <i>Energy and Environmental Science</i> , 2015 , 8, 1245-1255	35.4	223
7	High-detectivity inverted near-infrared polymer photodetectors using cross-linkable conjugated polyfluorene as an electron extraction layer. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9592-9598	7.1	31
6	Enhanced performance of polymer solar cells using PEDOT:PSS doped with Fe3O4 magnetic nanoparticles aligned by an external magnetostatic field as an anode buffer layer. <i>ACS Applied Materials & Discourse (Note of Section 1988)</i>	9.5	27
5	Molecular weight effect on the efficiency of polymer solar cells. <i>ACS Applied Materials & amp; Interfaces</i> , 2013 , 5, 12163-7	9.5	102
4	Solution-processed Fe3O4 magnetic nanoparticle thin film aligned by an external magnetostatic field as a hole extraction layer for polymer solar cells. <i>ACS Applied Materials & Discourse (Materials & Discourse)</i> , 10325-30	9.5	42
3	Effect of Oligothiophene Bridge Length on the Photovoltaic Properties of DA Copolymers Based on Carbazole and Quinoxalinoporphyrin. <i>Macromolecules</i> , 2012 , 45, 7806-7814	5.5	47
2	Localized Electron Density Engineering for Stabilized B-ICsSnI3-Based Perovskite Solar Cells with Efficiencies >10%. ACS Energy Letters,1480-1489	20.1	50
1	Homogenization of Optical Field in Nanocrystal-Embedded Perovskite Composites. <i>ACS Energy Letters</i> ,1657-1671	20.1	