Yanbing Hou

List of Publications by Year
in descending order

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		279798	302126
74	1,733	23	39
papers	citations	h-index	g-index

74	74	74	3219
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Morphology engineering of a hybrid perovskite for active terahertz memory modulation. Optics Express, 2022, 30, 2626.	3.4	2
2	Metal oxide nanoparticle-modified ITO electrode for high-performance solution-processed perovskite photodetectors. RSC Advances, 2022, 12, 5638-5647.	3.6	1
3	Aspect-ratio controllable growth of rectangular cesium lead bromide crystallites on PTAA modified substrates. Journal of Materials Chemistry C, 2022, 10, 6473-6480.	5.5	3
4	Overall Enhanced Performance of Polymer Photodetectors by Coâ€Modifying ITO with PEIE and ZnO. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	2.4	3
5	Stable Terahertz In Situ Photo-Writable Electrically Erasable Memory with a CsPbI₃:Ag/SnO₂/PEDOT:PSS Hybrid Structure. ACS Applied Electronic Materials, 2021, 3, 1006-1014.	4.3	5
6	Strong Triplet-Excitonâ€“LO-Phonon Coupling in Two-Dimensional Layered Organicâ€“Inorganic Hybrid Perovskite Single Crystal Microflakes. Journal of Physical Chemistry Letters, 2021, 12, 2133-2141.	4.6	7
7	Highâ€Performance Polymer Photodetectors using ZnO Nanocrystal Trap States. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100003.	2.4	2
8	Property Modulation of Two-Dimensional Lead-Free Perovskite Thin Films by Aromatic Polymer Additives for Performance Enhancement of Field-Effect Transistors. ACS Applied Materials & Interfaces, 2021, 13, 24272-24284.	8.0	21
9	Ultrafast carrier response of CH₃NH₃PbI₃/MoO₃/graphene heterostructure for terahertz waves. Journal Physics D: Applied Physics, 2021, 54, 325102.	2.8	4
10	Charge Transport in 2D Layered Mixed Snâ€“Pb Perovskite Thin Films for Fieldâ€Effect Transistors. Advanced Electronic Materials, 2021, 7, 2100384.	5.1	22
11	The Trapped Charges at Grain Boundaries in Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2107125.	14.9	47
12	Ambipolar transport in two-dimensional Sn-based perovskite field-effect transistors using an aliphatic polymer-assisted method. Journal of Materials Chemistry A, 2021, 9, 22842-22853.	10.3	11
13	Efficient Quasi-Two-Dimensional Perovskite Light-Emitting Diodes with Improved Multiple Quantum Well Structure. ACS Applied Materials & Interfaces, 2020, 12, 1721-1727.	8.0	25
14	Highâ€Performance Polymer Photodetector Using the Nonâ€Thermalâ€andâ€Nonâ€Ultravioletâ€“Ozoneâ€Treated SnO 2 Interfacial Layer. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900531.	2.4	10
15	Impacts of carrier trapping and ion migration on charge transport of perovskite solar cells with TiO_x electron transport layer. RSC Advances, 2020, 10, 28083-28089.	3.6	4
16	Improving ternary blend morphology by adding a conjugated molecule into non-fullerene polymer solar cells. RSC Advances, 2020, 10, 43508-43513.	3.6	6
17	Grain Growth of MAPbI₃ via Diethylammonium Bromide Induced Grain Mergence. ACS Applied Materials & Interfaces, 2020, 12, 16707-16714.	8.0	10
18	Enhanced performance of tin halide perovskite solar cells by addition of hydrazine monohydrobromide. Organic Electronics, 2020, 82, 105728.	2.6	20

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19	Nanowire Junction Induced High Threshold Voltage in Poly(3â€hexylthiophene) Mesoscale Crystalline Thinâ€Film Transistors with Significantly Enhanced Mobility. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900723.	2.4	2
20	An in situ rewritable electrically-erasable photo-memory device for terahertz waves. Nanoscale, 2020, 12, 3343-3350.	5.6	10
21	Mixed-dimensional self-assembly organicâ€“inorganic perovskite microcrystals for stable and efficient photodetectors. Journal of Materials Chemistry C, 2020, 8, 5399-5408.	5.5	13
22	Photocatalytic synthesis of gold nanoparticles using TiO₂ nanorods: a mechanistic investigation. Physical Chemistry Chemical Physics, 2019, 21, 18753-18757.	2.8	9
23	Role of Hydroxyl on Conductivity Switching of Poly(ethylene oxide)/TiO 2 Electrical Bistable Devices. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900443.	1.8	2
24	Discrete SnO₂ Nanoparticleâ€Modified Poly(3,4â€Ethylenedioxythiophene):Poly(Styrenesulfonate) for Efficient Perovskite Solar Cells. Solar Rrl, 2019, 3, 1970103.	5.8	4
25	Solution-processed organic field-effect transistors with cross-linked poly(4-vinylphenol)/polyvinyl alcohol bilayer dielectrics. Applied Surface Science, 2019, 478, 699-707.	6.1	22
26	Discrete SnO 2 Nanoparticleâ€Modified Poly(3,4â€Ethylenedioxythiophene):Poly(Styrenesulfonate) for Efficient Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900162.	5.8	13
27	Two-dimensional additive diethylammonium iodide promoting crystal growth for efficient and stable perovskite solar cells. RSC Advances, 2019, 9, 7984-7991.	3.6	25
28	Two-dimensional organicâ€“inorganic hybrid perovskite field-effect transistors with polymers as bottom-gate dielectrics. Journal of Materials Chemistry C, 2019, 7, 4004-4012.	5.5	45
29	Enhanced efficiency and light stability of planar perovskite solar cells by diethylammonium bromide induced large-grain 2D/3D hybrid film. Organic Electronics, 2019, 67, 101-108.	2.6	28
30	Scalable Grapheneâ€onâ€Organometal Halide Perovskite Heterostructure Fabricated by Dry Transfer. Advanced Materials Interfaces, 2019, 6, 1801419.	3.7	11
31	Synthesis of ultrathin two-dimensional organicâ€“inorganic hybrid perovskite nanosheets for polymer field-effect transistors. Journal of Materials Chemistry C, 2018, 6, 3945-3950.	5.5	36
32	Sensitive, fast, stable, and broadband polymer photodetector with introducing TiO2 nanocrystal trap states. Organic Electronics, 2018, 59, 63-68.	2.6	11
33	Enhanced performance of tin halide perovskite solar cell by addition of lead thiocyanate. RSC Advances, 2018, 8, 14025-14030.	3.6	37
34	Interface studies of well-controlled polymer bilayers and field-effect transistors prepared by a mixed-solvent method. RSC Advances, 2018, 8, 11272-11279.	3.6	14
35	Investigation on the Overshoot of Transient Open-Circuit Voltage in Methylammonium Lead Iodide Perovskite Solar Cells. Materials, 2018, 11, 2407.	2.9	5
36	High-performance light-emitting diode with poly(ethylene oxide) passivated quasi two dimensional perovskite emitting layer. Organic Electronics, 2018, 63, 216-221.	2.6	22

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37	Active bidirectional electrically-controlled terahertz device based on dimethyl sulfoxide-doped PEDOT:PSS. Optics Express, 2018, 26, 25849.	3.4	12
38	High-Performance Photodiode-Type Photodetectors Based on Polycrystalline Formamidinium Lead Iodide Perovskite Thin Films. Scientific Reports, 2018, 8, 11157.	3.3	90
39	Monolayer graphene based organic optical terahertz modulator. Applied Physics Letters, 2017, 110, .	3.3	32
40	Temperature dependent amplified spontaneous emission of vacuum annealed perovskite films. RSC Advances, 2017, 7, 15911-15916.	3.6	22
41	Ligand-free rutile and anatase TiO₂nanocrystals as electron extraction layers for high performance inverted polymer solar cells. RSC Advances, 2017, 7, 20084-20092.	3.6	135
42	High sensitivity, fast response and low operating voltage organic photodetectors by incorporating a water/alcohol soluble conjugated polymer anode buffer layer. RSC Advances, 2017, 7, 1743-1748.	3.6	31
43	Enhanced performance in inverted polymer solar cells employing microwave-annealed sol-gel ZnO as electron transport layers. Organic Electronics, 2017, 42, 107-114.	2.6	11
44	Using Bulk Heterojunctions and Selective Electron Trapping to Enhance the Responsivity of Perovskiteâ€“Graphene Photodetectors. Advanced Functional Materials, 2017, 27, 1704173.	14.9	79
45	Role of nanoparticle surface defects in the conduction mechanism of polymerâ€“nanoparticle electrical bistable devices. RSC Advances, 2017, 7, 54128-54135.	3.6	15
46	Oxygen Effects on Performance of Electrically Bistable Devices Based on Hybrid Silver Sulfide Poly(N-vinylcarbazole) Nanocomposites. Nanoscale Research Letters, 2016, 11, 63.	5.7	1
47	Effects of solvent additives on trapâ€assisted recombination in P3HT:ICBA based polymer solar cells. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2169-2173.	1.8	7
48	Transient Photocurrent Response of Plasmon-Enhanced Polymer Solar Cells with Gold Nanoparticles. Materials, 2015, 8, 4050-4060.	2.9	8
49	Efficient polymer solar cells with polyethylene glycol cathode buffer layer and improved PEDOT:PSS conductivity. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1800-1804.	1.8	9
50	Enhanced amplified spontaneous emission from morphology-controlled organicâ€“inorganic halide perovskite films. RSC Advances, 2015, 5, 103674-103679.	3.6	23
51	Effects of photo-induced defects on the performance of PBDTTT-C/PC₇₀ BM solar cells. Physica Status Solidi - Rapid Research Letters, 2015, 9, 120-124.	2.4	9
52	Active terahertz device based on optically controlled organometal halide perovskite. Applied Physics Letters, 2015, 107, .	3.3	44
53	Self-Assembled TiO₂ Nanorods as Electron Extraction Layer for High-Performance Inverted Polymer Solar Cells. Chemistry of Materials, 2015, 27, 44-52.	6.7	33
54	Investigation on Thermal Degradation Process of Polymer Solar Cells Based on Blend of PBDTTT-C and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:msub><mml:mrow><mml:mtext>PC</mml:mtext></mml:mrow><mml:mrow><mml:mn mathvariant="bold">70</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>BM. International Journal of Photoenergy, 2014, 2014, 1-9.	2.5	9

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55	Effects of alkanethiols chain length on the synthesis of Cu_{2â^'x}S nanocrystals: phase, morphology, plasmonic properties and electrical conductivity. RSC Advances, 2014, 4, 54547-54553.	3.6	27
56	Synthesis of Cu_{2â^'x}S nanocrystals induced by foreign metal ions: phase and morphology transformation and localized surface plasmon resonance. CrystEngComm, 2014, 16, 8684-8690.	2.6	26
57	Effects of gate dielectric thickness and semiconductor thickness on device performance of organic field-effect transistors based on pentacene. Science China Technological Sciences, 2014, 57, 1142-1146.	4.0	10
58	Negative differential resistance and carrier transport of electrically bistable devices based on poly(N-vinylcarbazole)-silver sulfide composites. Nanoscale Research Letters, 2014, 9, 128.	5.7	21
59	Surface plasmonic effect and scattering effect of Au nanorods on the performance of polymer bulk heterojunction solar cells. Science China Technological Sciences, 2013, 56, 1865-1869.	4.0	8
60	Photocatalytic Synthesis and Photovoltaic Application of Ag-TiO₂ Nanorod Composites. Nano Letters, 2013, 13, 5698-5702.	9.1	173
61	Fluorine substituted thiopheneâ€“quinoxalinecopolymer to reduce the HOMO level and increase the dielectric constant for high open-circuit voltage organic solar cells. Journal of Materials Chemistry C, 2013, 1, 630-637.	5.5	101
62	Upconversion multicolor tuning: Red to green emission from Y2O3:Er, Yb nanoparticles by calcination. Applied Physics Letters, 2013, 102, .	3.3	33
63	Improvement of amplified spontaneous emission performance of conjugated polymer waveguides with a low loss cladding. Applied Physics Letters, 2012, 101, 153305.	3.3	14
64	Electrical bistability and charge-transport mechanisms in cuprous sulfide nanosphere-poly(N-vinylcarbazole) composite films. Journal of Nanoparticle Research, 2011, 13, 7263-7269.	1.9	5
65	Synthesis, optical properties, and superlattice structure of Cu(I)-doped CdS nanocrystals. Applied Physics Letters, 2010, 97, .	3.3	56
66	Optical properties and electrical bistability of CdS nanoparticles synthesized in dodecanethiol. Applied Physics Letters, 2010, 96, .	3.3	46
67	Electrical bistability and negative differential resistance in diodes based on silver nanoparticle-poly(N-vinylcarbazole) composites. Journal of Applied Physics, 2010, 108, 094320.	2.5	13
68	Synthesis and self-assembly of Cu1.94Sâ€“ZnS heterostructured nanorods. CrystEngComm, 2010, 12, 4124.	2.6	54
69	Verification of p-n junctions in polymer light-emitting electrochemical cells via electrical characterization. Applied Physics Letters, 2009, 95, .	3.3	4
70	Electrical bistability of copper (I) sulfide nanocrystals blending with a semiconducting polymer. Applied Physics Letters, 2009, 95, 143115.	3.3	19
71	Influence of heterojunction interface on exciplex emission from organic light-emitting diodes under electric fields. Applied Physics A: Materials Science and Processing, 2008, 90, 475-478.	2.3	5
72	Photovoltaic properties of MEH-PPV/TiO2 nanocomposites. Science Bulletin, 2008, 53, 2743-2747.	9.0	10

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73	Charge carriers at organic heterojunction interface: Exciplex emission or electroplex emission?. Journal of Applied Physics, 2007, 101, 096101.	2.5	26
74	Aggregation-induced emission tetraphenylethylene derivative as optical sensor for ammonia detection. Materials Technology, 0, , 1-6.	3.0	0