

Shirong Wang

List of Publications by Year in descending order

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70
papers

3,480
citations

186265

28
h-index

138484

58
g-index

70
all docs

70
docs citations

70
times ranked

3899
citing authors

#	ARTICLE	IF	CITATIONS
1	Water-induced crystal phase transformation of stable lead-free Cu-based perovskite nanocrystals prepared by one-pot method. <i>Chemical Engineering Journal</i> , 2022, 427, 131430.	12.7	22
2	Enhancing hole injection by processing ITO through MoO ₃ and self-assembled monolayer hybrid modification for solution-processed hole transport layer-free OLEDs. <i>Chemical Engineering Journal</i> , 2022, 427, 131356.	12.7	8
3	Transformation of Quasi-2D Perovskite into 3D Perovskite Using Formamidine Acetate Additive for Efficient Blue Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2022, 32, 2105164.	14.9	26
4	In Situ Synthesized 2D Covalent Organic Framework Nanosheets Induce Growth of High-Quality Perovskite Film for Efficient and Stable Solar Cells. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	29
5	Efficient and Stable Large Bandgap MAPbBr ₃ Perovskite Solar Cell Attaining an Open Circuit Voltage of 1.65 V. <i>ACS Energy Letters</i> , 2022, 7, 1112-1119.	17.4	21
6	Preparation and Lithium Storage Properties of Hierarchical Hydrangea-Like MoS ₂ /C Composites. <i>Energy Technology</i> , 2022, 10, .	3.8	2
7	Beyond efficiency fever: Preventing lead leakage for perovskite solar cells. <i>Matter</i> , 2022, 5, 1137-1161.	10.0	32
8	Zn ²⁺ -Doped Lead-Free CsMnCl ₃ Nanocrystals Enable Efficient Red Emission with a High Photoluminescence Quantum Yield. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4688-4694.	4.6	18
9	Constructing Effective Hole Transport Channels in Cross-Linked Hole Transport Layer by Stacking Discotic Molecules for High Performance Deep Blue QLEDs. <i>Advanced Science</i> , 2022, 9, .	11.2	16
10	Impact of peripheral groups on pyrimidine acceptor-based HLCT materials for efficient deep blue OLED devices. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9953-9960.	5.5	15
11	Low-Cost Dopant Additive-Free Hole-Transporting Material for a Robust Perovskite Solar Cell with Efficiency Exceeding 21%. <i>ACS Energy Letters</i> , 2021, 6, 208-215.	17.4	67
12	Effect of concomitant anti-solvent engineering on perovskite grain growth and its high efficiency solar cells. <i>Science China Materials</i> , 2021, 64, 267-276.	6.3	14
13	Advances in SnO ₂ -based perovskite solar cells: from preparation to photovoltaic applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19554-19588.	10.3	88
14	How to apply metal halide perovskites to photocatalysis: challenges and development. <i>Nanoscale</i> , 2021, 13, 10281-10304.	5.6	47
15	Synergistic Effect of Fluorinated Passivator and Hole Transport Dopant Enables Stable Perovskite Solar Cells with an Efficiency Near 24%. <i>Journal of the American Chemical Society</i> , 2021, 143, 3231-3237.	13.7	152
16	Study on Thermal Simulation of LiNi _{0.5} Mn _{1.5} O ₄ /Li ₄ Ti ₅ O ₁₂ Battery. <i>Energy Technology</i> , 2021, 9, 2000816.	3.8	1
17	Structural Stability of Formamidinium- and Cesium-Based Halide Perovskites. <i>ACS Energy Letters</i> , 2021, 6, 1942-1969.	17.4	76
18	Tunable White Light-Emitting Devices Based on Unilaminar High-Efficiency Zn ²⁺ -Doped Blue CsPbBr ₃ Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8507-8512.	4.6	11

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19	Low-temperature cross-linkable hole transporting materials through chemical doping for solution-processed green PHOLEDs. <i>Organic Electronics</i> , 2021, 99, 106334.	2.6	6
20	Inkjet-printed alloy-like cross-linked hole-transport layer for high-performance solution-processed green phosphorescent OLEDs. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12712-12719.	5.5	16
21	Identifying high-performance and durable methylammonium-free lead halide perovskites via high-throughput synthesis and characterization. <i>Energy and Environmental Science</i> , 2021, 14, 6638-6654.	30.8	20
22	Mixed-ligand engineering of quasi-2D perovskites for efficient sky-blue light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1319-1325.	5.5	39
23	Chemically doped hole transporting materials with low cross-linking temperature and high mobility for solution-processed green/red PHOLEDs. <i>Chemical Engineering Journal</i> , 2020, 391, 123479.	12.7	27
24	Enhancing quantum yield of CsPb(BrxCl1-x)3 nanocrystals through lanthanum doping for efficient blue light-emitting diodes. <i>Nano Energy</i> , 2020, 77, 105302.	16.0	55
25	Highly efficient hole injection/transport layer-free OLEDs based on self-assembled monolayer modified ITO by solution-process. <i>Nano Energy</i> , 2020, 78, 105399.	16.0	24
26	Triazine-based OLEDs with simplified structure and high efficiency by solution-processed procedure. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 19943-19949.	2.2	0
27	Hole transport layer-free deep-blue OLEDs with outstanding colour purity and high efficiency. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9184-9188.	5.5	11
28	Enhanced efficiency and stability of organic light-emitting diodes via binary self-assembled monolayers of aromatic and aliphatic compounds on indium tin oxide. <i>Organic Electronics</i> , 2020, 84, 105752.	2.6	3
29	Blue emissive dimethylmethylene-bridged triphenylamine derivatives appending cross-linkable groups. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 3754-3760.	2.8	2
30	Tailored Amphiphilic Molecular Mitigators for Stable Perovskite Solar Cells with 23.5% Efficiency. <i>Advanced Materials</i> , 2020, 32, e1907757.	21.0	303
31	Room-temperature-processed fullerene single-crystalline nanoparticles for high-performance flexible perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1509-1518.	10.3	25
32	Impact of 9-(4-methoxyphenyl) Carbazole and Benzodithiophene Cores on Performance and Stability for Perovskite Solar Cells Based on Dopant-Free Hole-Transporting Materials. <i>Solar Rrl</i> , 2019, 3, 1900202.	5.8	28
33	Regulation of peripheral tert-butyl position: Approaching efficient blue OLEDs based on solution-processable hole-transporting materials. <i>Organic Electronics</i> , 2019, 71, 85-92.	2.6	11
34	A low-cost thiophene-based hole transport material for efficient and stable perovskite solar cells. <i>Organic Electronics</i> , 2019, 71, 194-198.	2.6	10
35	Modification of ITO anodes with self-assembled monolayers for enhancing hole injection in OLEDs. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	25
36	A novel bipolar carbazole/ phenanthroimidazole derivative for high efficiency nondoped deep-blue organic light-emitting diodes. <i>Organic Electronics</i> , 2019, 64, 259-265.	2.6	29

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37	Carbon Nanotube Bridging Method for Hole Transport Layer-Free Paintable Carbon-Based Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 916-923.	8.0	77
38	Suppressing defects through thiadiazole derivatives that modulate CH ₃ NH ₃ PbI ₃ crystal growth for highly stable perovskite solar cells under dark conditions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4971-4980.	10.3	95
39	Novel carbazolyl-substituted spiro[acridine-9,9'-fluorene] derivatives as deep-blue emitting materials for OLED applications. <i>Dyes and Pigments</i> , 2018, 154, 30-37.	3.7	37
40	Impact of Peripheral Groups on Phenothiazine-Based Hole-Transporting Materials for Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2018, 3, 1145-1152.	17.4	125
41	Alcohol-Soluble Electron-Transport Materials for Fully Solution-Processed Green PhOLEDs. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1335-1341.	3.3	10
42	Self-assembled monolayer-modified ITO for efficient organic light-emitting diodes: The impact of different self-assemble monolayers on interfacial and electroluminescent properties. <i>Organic Electronics</i> , 2018, 56, 89-95.	2.6	23
43	A thermally cross-linked hole-transporting film with the remarkable solvent resistance for solution-processed OLEDs. <i>Organic Electronics</i> , 2018, 57, 345-351.	2.6	21
44	Mixed cations and mixed halide perovskite solar cell with lead thiocyanate additive for high efficiency and long-term moisture stability. <i>Organic Electronics</i> , 2018, 53, 249-255.	2.6	35
45	Achieving highly efficient blue light-emitting polymers by incorporating a styrylarylene amine unit. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12355-12363.	5.5	16
46	Organic Single-Crystalline π -n Heterojunctions for High-Performance Ambipolar Field-Effect Transistors and Broadband Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42715-42722.	8.0	29
47	Enhanced stability and optoelectronic properties of MAPbI ₃ films by a cationic surface-active agent for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10825-10834.	10.3	81
48	Organic Single-Crystalline Donor-Acceptor Heterojunctions with Ambipolar Band-Like Charge Transport for Photovoltaics. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800336.	3.7	18
49	Stable Perovskite Solar Cells based on Hydrophobic Triphenylamine Hole-Transport Materials. <i>Energy Technology</i> , 2017, 5, 312-320.	3.8	31
50	2,9,16,23-Tetrakis(7-coumarinoxy-4-methyl)- metallophthalocyanines -based hole transporting material for mixed-perovskite solar cells. <i>Synthetic Metals</i> , 2017, 226, 1-6.	3.9	20
51	Isomer-Pure Bis-PCBM-Assisted Crystal Engineering of Perovskite Solar Cells Showing Excellent Efficiency and Stability. <i>Advanced Materials</i> , 2017, 29, 1606806.	21.0	320
52	Tuning the crystal growth of perovskite thin-films by adding the 2-pyridylthiourea additive for highly efficient and stable solar cells prepared in ambient air. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13448-13456.	10.3	96
53	Dopant-Free Hole-Transport Material with a Tetraphenylethene Core for Efficient Perovskite Solar Cells. <i>Energy Technology</i> , 2017, 5, 1257-1264.	3.8	19
54	Dopant-free and low-cost molecular hole-transporting materials for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11429-11435.	5.5	40

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55	Over 20% PCE perovskite solar cells with superior stability achieved by novel and low-cost hole-transporting materials. <i>Nano Energy</i> , 2017, 41, 469-475.	16.0	232
56	Two trans-1-(9-anthryl)-2-phenylethene derivatives as blue-green emitting materials for highly bright organic light-emitting diodes application. <i>Organic Electronics</i> , 2017, 50, 228-238.	2.6	11
57	Dopant-free star-shaped hole-transport materials for efficient and stable perovskite solar cells. <i>Dyes and Pigments</i> , 2017, 136, 273-277.	3.7	83
58	Efficient, Stable, Dopant-free Hole-transport Material with a Triphenylamine Core for CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells. <i>Energy Technology</i> , 2017, 5, 1173-1178.	3.8	25
59	Small molecular hole-transporting and emitting materials for hole-only green organic light-emitting devices. <i>Dyes and Pigments</i> , 2016, 131, 41-48.	3.7	22
60	Application of phenonaphthazine derivatives as hole-transporting materials for perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2016, 25, 702-708.	12.9	18
61	A novel one-step synthesized and dopant-free hole transport material for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16330-16334.	10.3	87
62	Dopant-free Donor (D)-D Conjugated Hole-transport Materials for Efficient and Stable Perovskite Solar Cells. <i>ChemSusChem</i> , 2016, 9, 2578-2585.	6.8	83
63	Improvement in photovoltaic performance of perovskite solar cells by interface modification and co-sensitization with novel asymmetry 7-coumarinoxy-4-methyltetrasubstituted metallophthalocyanines. <i>Synthetic Metals</i> , 2016, 220, 187-193.	3.9	21
64	A Novel Dopant-free Triphenylamine Based Molecular "Butterfly" Hole-transport Material for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600401.	19.5	161
65	Molecular design and photovoltaic performance of a novel thiocyanate-based layered organometal perovskite material. <i>Synthetic Metals</i> , 2016, 215, 56-63.	3.9	31
66	Film-forming hole transporting materials for high brightness flexible organic light-emitting diodes. <i>Dyes and Pigments</i> , 2016, 125, 36-43.	3.7	13
67	Recent Progress of Perovskite Solar Cells. <i>Current Nanoscience</i> , 2016, 12, 137-156.	1.2	39
68	Novel hole transporting materials with a linear π -conjugated structure for highly efficient perovskite solar cells. <i>Chemical Communications</i> , 2014, 50, 5829.	4.1	132
69	Energy level tuning of TPB-based hole-transporting materials for highly efficient perovskite solar cells. <i>Chemical Communications</i> , 2014, 50, 15239-15242.	4.1	134
70	Study on synthesis and properties of novel luminescent hole transporting materials based on N,N'-di(p-tolyl)-N,N'-diphenyl-1,1'-biphenyl-4,4'-diamine core. <i>Dyes and Pigments</i> , 2013, 97, 92-99.	3.7	16