Jian Wang

List of Publications by Year
in descending order

77 papers	3,421 citations	159585 30 h-index	144013 57 g-index
78 all docs	78 docs citations	78 times ranked	4712 citing authors

#	Article	IF	Citations
1	All-solution processed polymer light-emitting diode displays. Nature Communications, 2013, 4, 1971.	12.8	287
2	Efficient and bright white light-emitting diodes based on single-layer heterophase halide perovskites. Nature Photonics, 2021, 15, 238-244.	31.4	231
3	Coffee-Ring-Free Quantum Dot Thin Film Using Inkjet Printing from a Mixed-Solvent System on Modified ZnO Transport Layer for Light-Emitting Devices. ACS Applied Materials & Interfaces, 2016, 8, 26162-26168.	8.0	219
4	Single Microwire Transistors of Oligoarenes by Direct Solution Process. Journal of the American Chemical Society, 2007, 129, 12386-12387.	13.7	173
5	A Nonâ€Fullerene Small Molecule as Efficient Electron Acceptor in Organic Bulk Heterojunction Solar Cells. Advanced Materials, 2012, 24, 957-961.	21.0	161
6	Flexible Carbon Nanotubeâ^'Polymer Composite Films with High Conductivity and Superhydrophobicity Made by Solution Process. Nano Letters, 2008, 8, 4454-4458.	9.1	154
7	Highly Sensitive, Airâ€Stable Photodetectors Based on Single Organic Subâ€micrometer Ribbons Selfâ€Assembled through Solution Processing. Advanced Materials, 2008, 20, 3745-3749.	21.0	138
8	Highly Efficient All-Solution Processed Inverted Quantum Dots Based Light Emitting Diodes. ACS Nano, 2018, 12, 1564-1570.	14.6	121
9	Highly Efficient and Colorâ€Stable Deepâ€Blue Organic Lightâ€Emitting Diodes Based on a Solutionâ€Processible Dendrimer. Advanced Materials, 2009, 21, 4854-4858.	21.0	108
10	Highâ€Performance Organic Fieldâ€Effect Transistors from Organic Singleâ€Crystal Microribbons Formed by a Solution Process. Advanced Materials, 2010, 22, 1484-1487.	21.0	105
11	Perovskite White Light Emitting Diodes: Progress, Challenges, and Opportunities. ACS Nano, 2021, 15, 17150-17174.	14.6	101
12	Fully Solution-Processed Tandem White Quantum-Dot Light-Emitting Diode with an External Quantum Efficiency Exceeding 25%. ACS Nano, 2018, 12, 6040-6049.	14.6	82
13	Allâ€Solutionâ€Processed Pure Formamidiniumâ€Based Perovskite Lightâ€Emitting Diodes. Advanced Materials, 2018, 30, e1804137.	21.0	77
14	Modifying organic/metal interface via solvent treatment to improve electron injection in organic light emitting diodes. Organic Electronics, 2011, 12, 1858-1863.	2.6	72
15	Direct Threeâ€Dimensional Imaging of the Buried Interfaces between Water and Superhydrophobic Surfaces. Angewandte Chemie - International Edition, 2010, 49, 9145-9148.	13.8	70
16	Full-color quantum dots active matrix display fabricated by ink-jet printing. Science China Chemistry, 2017, 60, 1349-1355.	8.2	67
17	Energyâ€Level Alignment at the Organic/Electrode Interface in Organic Optoelectronic Devices. Advanced Functional Materials, 2016, 26, 129-136.	14.9	60
18	Improved performance of inverted quantum dots light emitting devices by introducing double hole transport layers. Organic Electronics, 2016, 31, 82-89.	2.6	59

#	Article	IF	Citations
19	Line printing solution-processable small molecules with uniform surface profile via ink-jet printer. Journal of Colloid and Interface Science, 2016, 465, 106-111.	9.4	56
20	Roughening the white OLED substrateâ€™s surface through sandblasting to improve the external quantum efficiency. Organic Electronics, 2011, 12, 648-653.	2.6	54
21	Organic Supernanostructures Self-Assembled via Solution Process for Explosive Detection. Langmuir, 2009, 25, 1306-1310.	3.5	53
22	Inkjet Printing Matrix Perovskite Quantum Dot Lightâ€Emitting Devices. Advanced Materials Technologies, 2020, 5, 2000099.	5.8	49
23	Utilizing white OLED for full color reproduction in flat panel display. Organic Electronics, 2008, 9, 533-538.	2.6	48
24	Flexible All-organic, All-solution Processed Thin Film Transistor Array with Ultrashort Channel. Scientific Reports, 2016, 6, 29055.	3.3	48
25	Full color and monochrome passive-matrix polymer light-emitting diodes flat panel displays made with solution processes. Organic Electronics, 2008, 9, 95-100.	2.6	46
26	A photoswitch based on self-assembled single microwire of a phenyleneethynylene macrocycle. Chemical Communications, 2010, 46, 5725.	4.1	43
27	pH-neutral PEDOT:PSS as hole injection layer in polymer light emitting diodes. Organic Electronics, 2011, 12, 504-508.	2.6	37
28	Highly Efficient, Solution Processed Electrofluorescent Small Molecule White Organic Light-Emitting Diodes with a Hybrid Electron Injection Layer. ACS Applied Materials & Interfaces, 2014, 6, 8345-8352.	8.0	36
29	Inkjet-Printed Full-Color Matrix Quasi-Two-Dimensional Perovskite Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2021, 13, 41773-41781.	8.0	35
30	Fabricating large-area white OLED lighting panels via dip-coating. Organic Electronics, 2016, 37, 458-464.	2.6	32
31	In situ patterning of microgrooves via inkjet etching for a solution-processed OLED display. Journal of Materials Chemistry C, 2017, 5, 5005-5009.	5.5	29
32	Highly stable blue light-emitting materials with a three-dimensional architecture: improvement of charge injection and electroluminescence performance. New Journal of Chemistry, 2010, 34, 699.	2.8	28
33	High-Performance, All-Solution-Processed Organic Nanowire Transistor Arrays with Inkjet-Printing Patterned Electrodes. Langmuir, 2011, 27, 14710-14715.	3.5	27
34	Achieving high sensitivity in single organic submicrometer ribbon based photodetector through surface engineering. Organic Electronics, 2013, 14, 1103-1108.	2.6	26
35	Methanol treatment on low-conductive PEDOT:PSS to enhance the PLED's performance. Organic Electronics, 2016, 28, 252-256.	2.6	26
36	Inkjet-printing line film with varied droplet-spacing. Organic Electronics, 2017, 51, 308-313.	2.6	26

#	Article	IF	Citations
37	The effect of solvent treatment on the buried PEDOT:PSS layer. Organic Electronics, 2017, 43, 9-14.	2.6	25
38	Improved color purity and efficiency of blue quantum dot light-emitting diodes. Organic Electronics, 2018, 58, 245-249.	2.6	25
39	High-Performance, Solution-Processed Quantum Dot Light-Emitting Field-Effect Transistors with a Scandium-Incorporated Indium Oxide Semiconductor. ACS Nano, 2018, 12, 4624-4629.	14.6	25
40	Dipole formation at organic/metal interfaces with pre-deposited and post-deposited metal. NPG Asia Materials, 2017, 9, e379-e379.	7.9	22
41	Ï€â€Conjugated Dendrimers as Stable Pureâ€Blue Emissive Materials: Photophysical, Electrochemical, and Electroluminescent Properties. Chemistry - an Asian Journal, 2009, 4, 548-553.	3.3	21
42	Nonfullerene electron acceptors with electron-deficient units containing cyano groups for organic solar cells. Materials Chemistry Frontiers, 2021, 5, 5549-5572.	5.9	21
43	Holeâ€Trapping Effect of the Aliphaticâ€Amine Based Electron Injection Materials in the Operation of OLEDs to Facilitate the Electron Injection. Advanced Electronic Materials, 2015, 1, 1400014.	5.1	20
44	Performance analysis of PLED based flat panel display with RGBW sub-pixel layout. Organic Electronics, 2009, 10, 857-862.	2.6	19
45	Organic/Inorganic Hybrid EIL for Allâ€Solutionâ€Processed OLEDs. Advanced Electronic Materials, 2018, 4, 1700380.	5.1	18
46	Inkjet printing a small-molecule binary emitting layer for organic light-emitting diodes. Journal of Materials Chemistry C, 2020, 8, 6906-6913.	5.5	17
47	An Alkane-Soluble Dendrimer as Electron-Transport Layer in Polymer Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2016, 8, 20237-20242.	8.0	16
48	Stable mixed-cation perovskite light-emitting diodes. Organic Electronics, 2019, 71, 58-64.	2.6	15
49	Solvent treatment as an efficient anode modification method to improve device performance of polymer light-emitting diodes. Organic Electronics, 2013, 14, 548-553.	2.6	14
50	Free-standing, flexible, multifunctional, and environmentally stable superhydrophobic composite film made of self-assembled organic micro/super-nanostructures through solution process. Journal of Colloid and Interface Science, 2015, 445, 213-218.	9.4	14
51	Aqueous Solution Processed, Ultrathin ZnO Film with Low Conversion Temperature as the Electron Transport Layer in the Inverted Polymer Solar Cells. Journal of Physical Chemistry C, 2014, 118, 21819-21825.	3.1	13
52	Deciphering buried air phases on natural and bioinspired superhydrophobic surfaces using synchrotron radiation-based X-ray phase-contrast imaging. NPG Asia Materials, 2016, 8, e306-e306.	7.9	13
53	All-solution processed high performance inverted quantum dot light emitting diodes. Journal of Materials Chemistry C, 2020, 8, 4264-4270.	5.5	13
54	Synthesis and characterization of highly efficient solution-processable orange Ir(III) complexes for phosphorescent OLED applications. Organic Electronics, 2018, 57, 178-185.	2.6	12

#	Article	IF	Citations
55	Insulator as Efficient Hole Injection Layer in Perovskite Lightâ€Emitting Device via MIS Contact. Advanced Optical Materials, 2020, 8, 1902177.	7.3	12
56	Uniform inkjet-printed films with single solvent. Thin Solid Films, 2018, 667, 21-27.	1.8	11
57	A strategy for improving the performance of perovskite red light-emitting diodes by controlling the growth of perovskite crystal. Journal of Materials Chemistry C, 2019, 7, 11887-11895.	5.5	9
58	Bifacial passivation towards efficient FAPbBr₃-based inverted perovskite light-emitting diodes. Nanoscale, 2020, 12, 14724-14732.	5.6	9
59	Inkjet Printing Efficient Definedâ€Pixel Matrix Perovskite Lightâ€Emitting Diodes with a Polar Polymer Modification Layer. Advanced Materials Technologies, 2022, 7, .	5.8	9
60	Ether solvent treatment to improve the device performance of the organic light emitting diodes with aluminum cathode. Organic Electronics, 2015, 24, 241-245.	2.6	8
61	Modifying the organic/metal interfaceviasolvent vapor annealing to enhance the performance of blue OLEDs. Journal of Materials Chemistry C, 2019, 7, 4784-4790.	5.5	8
62	A Solution Process for Size-Controlled Growth and Transfer of Organic Nanostructures with Manufacture Scalability. Langmuir, 2010, 26, 5213-5216.	3.5	5
63	Solution processed alkali-metal and alkaline-earth-metal compounds as the efficient electron injection layer in organic light-emitting diodes. Synthetic Metals, 2018, 236, 31-35.	3.9	5
64	Effects of a random copolymer's component distribution on its opto-electronic properties. Journal of Materials Chemistry C, 2017, 5, 6163-6168.	5.5	4
65	Polymer light-emitting displays with printed cathodes. Surface and Coatings Technology, 2019, 358, 228-234.	4.8	4
66	Inverted polymer/quantum-dots hybrid white light emitting diodes. Thin Solid Films, 2019, 669, 34-41.	1.8	4
67	Highly efficient and stable hybrid quantum-dot light-emitting field-effect transistors. Materials Horizons, 2020, 7, 2439-2449.	12.2	4
68	Performance simulation of active-matrix OLED displays. , 2005, , .		3
69	Hole injection in perovskite light-emitting device with PEDOT:PSS/perovskite interface via MS contact. Applied Physics Letters, 2020, 117, 012107.	3.3	3
70	Measuring external photoluminescence quantum efficiency of organic solid films. Chemical Physics Letters, 2011, 506, 321-325.	2.6	2
71	Dependence of the Radiative Efficiency of Quasi-2D Perovskite Light-Emitting Diodes on the Multiquantum-Well Composition. Journal of Physical Chemistry C, 2021, 125, 12241-12250.	3.1	2
72	Highly conductive ink made of silver nanopolyhedrons through an ecofriendly solution process. Journal of Materials Research, 2011, 26, 503-507.	2.6	1

#	Article	IF	Citations
73	Pâ€224L: Lateâ€News Poster: Inkjetâ€printed Hyperbranched Polymer and Temperature Control of the Dewetting Phenomenon. Digest of Technical Papers SID International Symposium, 2017, 48, 1562-1564.	0.3	1
74	Pâ€167: Highâ€Efficiency Solutionâ€Processed 3.5â€inch White Backlight Panel Based on a Blue Dendrimer. Digest of Technical Papers SID International Symposium, 2010, 41, 1875-1878.	0.3	0
75	Pâ€240: Lateâ€News Poster: Inverted Hybrid Quantum Dot LED with Blue Polymer as Both Hole Transporting Layer and Emission Layer. Digest of Technical Papers SID International Symposium, 2017, 48, 1725-1728.	0.3	0
76	Pâ€9.1: Bifacial Passivation towards Efficient FAPbBr 3 â€based Inverted Perovskite Lightâ€emitting Diodes. Digest of Technical Papers SID International Symposium, 2021, 52, 565-565.	0.3	0
77	Cathode made by silver-precursor ink for all-solution processed quantum dots light-emitting diodes. Organic Electronics, 2021, 99, 106281.	2.6	0