Shengwei Shi

List of Publications by Year
in descending order

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Version: 2024-02-01

49 papers	1,507 citations	430874 18 h-index	315739 38 g-index
49 all docs	49 docs citations	49 times ranked	2435 citing authors

#	Article	IF	Citations
1	Thiolactone copolymer donor gifts organic solar cells a 16.72% efficiency. Science Bulletin, 2019, 64, 1573-1576.	9.0	140
2	Recent progress in silver nanowire networks for flexible organic electronics. Journal of Materials Chemistry C, 2020, 8, 4636-4674.	5.5	122
3	In Situ Formation of MoO₃ in PEDOT:PSS Matrix: A Facile Way to Produce a Smooth and Less Hygroscopic Hole Transport Layer for Highly Stable Polymer Bulk Heterojunction Solar Cells. Advanced Energy Materials, 2013, 3, 349-355.	19.5	118
4	Study of molecular spin-crossover complex Fe(phen)2(NCS)2 thin films. Applied Physics Letters, 2009, 95, .	3.3	109
5	Recent advances in 2D MXenes: preparation, intercalation and applications in flexible devices. Journal of Materials Chemistry A, 2021, 9, 14147-14171.	10.3	90
6	Low-Temperature Presynthesized Crystalline Tin Oxide for Efficient Flexible Perovskite Solar Cells and Modules. ACS Applied Materials & Interfaces, 2018, 10, 14922-14929.	8.0	81
7	Solution-processable graphene oxide as an efficient hole injection layer for high luminance organic light-emitting diodes. Journal of Materials Chemistry C, 2013, 1, 1708.	5.5	71
8	Synthesis of biomass-derived N,O-codoped hierarchical porous carbon with large surface area for high-performance supercapacitor. Journal of Energy Storage, 2021, 44, 103286.	8.1	69
9	Bismuth oxysulfide modified ZnO nanorod arrays as an efficient electron transport layer for inverted polymer solar cells. Journal of Materials Chemistry A, 2019, 7, 14776-14789.	10.3	63
10	Efficient and stable mixed perovskite solar cells using P3HT as a hole transporting layer. Journal of Materials Chemistry C, 2018, 6, 5733-5737.	5.5	61
11	Work Function Adjustment of Nb₂CT_x Nanoflakes as Hole and Electron Transport Layers in Organic Solar Cells by Controlling Surface Functional Groups. ACS Energy Letters, 2021, 6, 3464-3472.	17.4	54
12	Hybrid Interface States and Spin Polarization at Ferromagnetic Metalâ€“Organic Heterojunctions: Interface Engineering for Efficient Spin Injection in Organic Spintronics. Advanced Functional Materials, 2014, 24, 4812-4821.	14.9	50
13	Phthalocyanine based molecular spintronic devices. Dalton Transactions, 2016, 45, 16694-16699.	3.3	36
14	Emerging Biopolymerâ€Based Bioadhesives. Macromolecular Bioscience, 2022, 22, e2100340.	4.1	26
15	High luminance organic light-emitting diodes with efficient multi-walled carbon nanotube hole injectors. Carbon, 2012, 50, 4163-4170.	10.3	25
16	Improving the performance of inverted polymer solar cells by the efficiently doping and modification of electron transport layer-ZnO. Organic Electronics, 2019, 65, 311-320.	2.6	25
17	Role of Thickâ€Lithium Fluoride Layer in Energy Level Alignment at Organic/Metal Interface: Unifying Effect on High Metallic Work Functions. Advanced Materials Interfaces, 2015, 2, 1400527.	3.7	21
18	Room-temperature synthesized SnO₂ electron transport layers for efficient perovskite solar cells. RSC Advances, 2019, 9, 9946-9950.	3.6	21

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19	Fused-ring phenazine building blocks for efficient copolymer donors. Materials Chemistry Frontiers, 2020, 4, 1454-1458.	5.9	21
20	Surfaceâ€Engineered Ti₃C₂T_x with Tunable Work Functions for Highly Efficient Polymer Solar Cells. Small, 2022, 18, e2201046.	10.0	20
21	Intercalation Effects on the Electrochemical Properties of Ti₃C₂T_x MXene Nanosheets for High-Performance Supercapacitors. ACS Applied Nano Materials, 2022, 5, 8794-8803.	5.0	18
22	NaCl/Ca/Al as an efficient cathode in organic light-emitting devices. Applied Surface Science, 2006, 252, 6337-6341.	6.1	17
23	An efficient medium-bandgap nonfullerene acceptor for organic solar cells. Journal of Materials Chemistry A, 2020, 8, 8857-8861.	10.3	17
24	Two-dimensional Bi2OS2 doping improves the performance and stability of perovskite solar cells. Chemical Engineering Journal, 2021, 420, 127700.	12.7	16
25	Soft Room-Temperature Ferromagnetism of Carbon-Implanted Amorphous Fe₉₃Zr₇Films. Applied Physics Express, 2013, 6, 053001.	2.4	15
26	A pentacene-doped hole injection layer for organic light-emitting diodes. Semiconductor Science and Technology, 2005, 20, 1213-1216.	2.0	14
27	Synergetic effects of acid treatment and localized surface plasmon resonance in PEDOT:PSS layers by doping HAuCl4 for efficient polymer solar cells. Organic Electronics, 2018, 62, 121-132.	2.6	14
28	Finite size effects on the magnetocaloric properties around blocking temperature in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e783" altimg="si43.gif"><mml:mi>Î³</mml:mi></mml:math>-Fe2O3Ânanoparticles. Physica A: Statistical Mechanics and Its Applications, 2019, 523, 260-267.	2.6	14
29	Origin of the anomalous temperature dependence of coercivity in soft ferromagnets. Journal of Applied Physics, 2014, 116, .	2.5	12
30	Energy level alignment and interactive spin polarization at organic/ferromagnetic metal interfaces for organic spintronics. Organic Electronics, 2014, 15, 1951-1957.	2.6	11
31	Improving power conversion efficiency of polymer solar cells by doping copper phthalocyanine. Electrochimica Acta, 2015, 180, 645-650.	5.2	11
32	Optical properties of aluminosilicate phosphor for lighting and temperature sensing. Journal of Luminescence, 2019, 213, 241-248.	3.1	11
33	Improved performance and stability by an Al/Ni bilayer cathode in organic light-emitting diodes. Applied Surface Science, 2006, 253, 1551-1554.	6.1	10
34	Improved electron injection in organic light-emitting devices with a lithium acetylacetonate [Li(acac)]/aluminium bilayer cathode. Semiconductor Science and Technology, 2007, 22, 249-252.	2.0	10
35	Effect of NaCl buffer layer on the performance of organic light-emitting devices (OLEDs). EPJ Applied Physics, 2007, 40, 141-144.	0.7	10
36	Write-Once Read-Many-Times Memory Based on a Single Layer of Pentacene. IEEE Electron Device Letters, 2009, 30, 343-345.	3.9	9

#	Article	IF	Citations
37	Effect of Ca and buffer layers on the performance of organic light-emitting diodes based on tris-(8-hydroxyquinoline) aluminum. Thin Solid Films, 2010, 518, 4874-4878.	1.8	9
38	Synthesis and characterization of novel red-emitting conjugated polymers based on triphenylaminesilole-carbazole-fluorene. Materials Chemistry and Physics, 2018, 212, 208-213.	4.0	9
39	Photosensitizer and anticancer drug-loaded 2D nanosheet: Preparation, stability and anticancer property. 2D Materials, 2019, 6, 045035.	4.4	9
40	Investigation on internal electric field distribution of organic lightâ€emitting diodes (OLEDs) with Eu₂O₃ buffer layer. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2641-2644.	1.8	8
41	ZnO nanorod arrays modified with Bi2S3 nanoparticles as cathode for efficient polymer solar cells. Organic Electronics, 2019, 75, 105369.	2.6	8
42	Efficient sodium chlorate/calcium/aluminum cathode for polymer light-emitting diodes. Thin Solid Films, 2005, 489, 262-265.	1.8	6
43	A wide-bandgap copolymer donor based on a phenanthridin-6(5H)-one unit. Materials Chemistry Frontiers, 2019, 3, 2686-2689.	5.9	6
44	Effects of side groups on the kinetics of charge carrier recombination in dye molecule-doped multilayer organic light-emitting diodes. Journal of Materials Chemistry C, 2015, 3, 46-50.	5.5	4
45	Efficient Production of Singleâ€Walled Carbon Nanotube Aqueous Dispersion Using Hexahydroxytriphenylene as a Dispersant and Stabilizer. ChemistrySelect, 2018, 3, 6081-6086.	1.5	4
46	Electronic and magnetic properties of a ferromagnetic cobalt surface by adsorbing ultrathin films of tetracyanoethylene. Physical Chemistry Chemical Physics, 2019, 21, 15833-15844.	2.8	4
47	Solid-Phase Debundling of Single-Walled Carbon Nanotubes for the â€œStock Solidâ€•Delivery of Concentrated Nanotube Dispersions. ACS Applied Nano Materials, 2019, 2, 1720-1726.	5.0	4
48	11,11,12,12â€Tetracyanonaphthoâ€2,6â€quinodimethane in Contact with Ferromagnetic Electrodes for Organic Spintronics. Advanced Electronic Materials, 2018, 4, 1800077.	5.1	3
49	Charge Transport and Photovoltaic Properties of Conjugated Polymer PTB7:PC71BM Based Solar Cells. Transactions on Electrical and Electronic Materials, 2020, 21, 436-441.	1.9	1