

Fu-Shan Li

List of Publications by Year in descending order

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94
papers

3,688
citations

109321

35
h-index

144013

57
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all docs

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docs citations

94
times ranked

4637
citing authors

#	ARTICLE	IF	CITATIONS
1	Inkjet-printed unclonable quantum dot fluorescent anti-counterfeiting labels with artificial intelligence authentication. <i>Nature Communications</i> , 2019, 10, 2409.	12.8	293
2	Wearable Electricity Generators Fabricated Utilizing Transparent Electronic Textiles Based on Polyester/Ag Nanowires/Graphene Core-Shell Nanocomposites. <i>ACS Nano</i> , 2016, 10, 6449-6457.	14.6	202
3	Electrical memory devices based on inorganic/organic nanocomposites. <i>NPG Asia Materials</i> , 2012, 4, e18-e18.	7.9	162
4	Efficient All-Solution Processed Quantum Dot Light Emitting Diodes Based on Inkjet Printing Technique. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25506-25512.	8.0	155
5	Optoelectronic Perovskite Synapses for Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2020, 30, 1908901.	14.9	142
6	Fluorescent Microarrays of <i>in Situ</i> Crystallized Perovskite Nanocomposites Fabricated for Patterned Applications by Using Inkjet Printing. <i>ACS Nano</i> , 2019, 13, 2042-2049.	14.6	120
7	Mimicking Classical Conditioning Based on a Single Flexible Memristor. <i>Advanced Materials</i> , 2017, 29, 1602890.	21.0	119
8	Ultrahigh-resolution quantum-dot light-emitting diodes. <i>Nature Photonics</i> , 2022, 16, 297-303.	31.4	97
9	A facile synthesis of CH ₃ NH ₃ PbBr ₃ perovskite quantum dots and their application in flexible nonvolatile memory. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	89
10	Nonvolatile flexible organic bistable devices fabricated utilizing CdSe/ZnS nanoparticles embedded in a conducting poly(N-vinylcarbazole) polymer layer. <i>Nanotechnology</i> , 2008, 19, 055204.	2.6	85
11	Highly reproducible memory effect of organic multilevel resistive-switch device utilizing graphene oxide sheets/polyimide hybrid nanocomposite. <i>Applied Physics Letters</i> , 2011, 99, 042108.	3.3	85
12	Inkjet-Printed Photodetector Arrays Based on Hybrid Perovskite CH ₃ NH ₃ PbI ₃ Microwires. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11662-11668.	8.0	81
13	Ultrasoft and cuttable paper-based triboelectric nanogenerators for mechanical energy harvesting. <i>Nano Energy</i> , 2018, 44, 279-287.	16.0	78
14	Resistive switching memory based on organic/inorganic hybrid perovskite materials. <i>Vacuum</i> , 2016, 130, 109-112.	3.5	76
15	Facile and Efficient Patterning Method for Silver Nanowires and Its Application to Stretchable Electroluminescent Displays. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24074-24085.	8.0	73
16	Organic bistable devices based on core/shell CdSe-ZnS nanoparticles embedded in a conducting poly(N-vinylcarbazole) polymer layer. <i>Applied Physics Letters</i> , 2007, 91, 122111.	3.3	69
17	Efficient tristable resistive memory based on single layer graphene/insulating polymer multi-stacking layer. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	56
18	Inkjet-printed p-type nickel oxide thin-film transistor. <i>Applied Surface Science</i> , 2018, 441, 295-302.	6.1	56

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19	All-solution processed semi-transparent perovskite solar cells with silver nanowires electrode. <i>Nanotechnology</i> , 2016, 27, 095202.	2.6	55
20	Unclonable Perovskite Fluorescent Dots with Fingerprint Pattern for Multilevel Anticounterfeiting. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39649-39656.	8.0	55
21	Improving the field emission of graphene by depositing zinc oxide nanorods on its surface. <i>Carbon</i> , 2012, 50, 3622-3626.	10.3	54
22	Memory effect of CdSe/ZnS nanoparticles embedded in a conducting poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylene-vinylene] polymer layer. <i>Applied Physics Letters</i> , 2007, 90, 222109.	3.3	53
23	Carrier transport and memory mechanisms of multilevel resistive memory devices with an intermediate state based on double-stacked organic/inorganic nanocomposites. <i>Organic Electronics</i> , 2016, 28, 20-24.	2.6	53
24	Self-assembly of coordination polymers on plasmonic surfaces for computer vision decodable, unclonable and colorful security labels. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13040-13046.	5.5	49
25	UV photovoltaic cells based on conjugated ZnO quantum dot/multiwalled carbon nanotube heterostructures. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	47
26	Triboelectric electronic-skin based on graphene quantum dots for application in self-powered, smart, artificial fingers. <i>Nano Energy</i> , 2018, 49, 274-282.	16.0	46
27	Improving efficiency of organic light-emitting diodes fabricated utilizing AZO/Ag/AZO multilayer electrode. <i>Vacuum</i> , 2012, 86, 1895-1897.	3.5	45
28	Memory effect of nonvolatile bistable devices based on CdSe/ZnS nanoparticles sandwiched between C60 layers. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	43
29	Ultrathin electronic synapse having high temporal/spatial uniformity and an Al ₂ O ₃ /graphene quantum dots/Al ₂ O ₃ sandwich structure for neuromorphic computing. <i>NPG Asia Materials</i> , 2019, 11, .	7.9	42
30	Improving device performance of n-type organic field-effect transistors via doping with a p-type organic semiconductor. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4543-4550.	5.5	42
31	High performance inkjet-printed QLEDs with 18.3% EQE: improving interfacial contact by novel halogen-free binary solvent system. <i>Nano Research</i> , 2021, 14, 4125-4131.	10.4	42
32	Light-Emitting Memristors for Optoelectronic Artificial Efferent Nerve. <i>Nano Letters</i> , 2021, 21, 6087-6094.	9.1	42
33	All-Solution-Processed Perovskite Quantum Dots Light-Emitting Diodes Based on the Solvent Engineering Strategy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27374-27380.	8.0	40
34	Improving Charge Injection via a Blade-Coating Molybdenum Oxide Layer: Toward High-Performance Large-Area Quantum-Dot Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8258-8264.	8.0	39
35	Inkjet-Printed Quantum Dot Fluorescent Security Labels with Triple-Level Optical Encryption. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15701-15708.	8.0	38
36	Flexible blue-green and white light-emitting electrochemical cells based on cationic iridium complex. <i>Organic Electronics</i> , 2016, 28, 314-318.	2.6	36

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37	Unique visible-light-assisted field emission of tetrapod-shaped ZnO/reduced graphene-oxide core/coating nanocomposites. <i>Scientific Reports</i> , 2016, 6, 38613.	3.3	31
38	Highly efficient inkjet printed flexible organic light-emitting diodes with hybrid hole injection layer. <i>Organic Electronics</i> , 2020, 85, 105822.	2.6	29
39	Blue quantum dot light emitting diodes with polyvinylpyrrolidone-doped electron transport layer. <i>Organic Electronics</i> , 2018, 63, 65-70.	2.6	28
40	Efficient inkjet-printed blue OLED with boosted charge transport using host doping for application in pixelated display. <i>Optical Materials</i> , 2020, 101, 109755.	3.6	28
41	Aggregation-induced emission (AIE) active iridium complexes toward highly efficient single-layer non-doped electroluminescent devices. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10464-10470.	5.5	27
42	Ultrahighly Efficient White Quantum Dot Light-Emitting Diodes Operating at Low Voltage. <i>Advanced Optical Materials</i> , 2020, 8, 2001479.	7.3	27
43	Rational Design of Efficient Organometallic Ir(III) Complexes for High-Performance, Flexible, Monochromatic, and White Light-Emitting Electrochemical Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4649-4658.	8.0	27
44	Multilevel nonvolatile memory effects in hybrid devices containing CdSe@ZnS nanoparticle double arrays embedded in the C60 matrices. <i>Applied Physics Letters</i> , 2008, 92, 102110.	3.3	26
45	Carrier transport mechanisms of nonvolatile memory devices based on nanocomposites consisting of ZnO nanoparticles with polymethylmethacrylate nanocomposites sandwiched between two C60 layers. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	26
46	Surface engineering towards highly efficient perovskite light-emitting diodes. <i>Nano Energy</i> , 2019, 65, 104029.	16.0	26
47	Encapsulation of 2D MoS ₂ nanosheets into 1D carbon nanobelts as anodes with enhanced lithium/sodium storage properties. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3329-3342.	5.5	25
48	Flexible photovoltaic cells fabricated utilizing ZnO quantum dot/carbon nanotube heterojunctions. <i>Nanotechnology</i> , 2009, 20, 155202.	2.6	23
49	Tristable switching of the electrical conductivity through graphene quantum dots sandwiched in multi-stacked poly(methyl methacrylate) layers. <i>Organic Electronics</i> , 2016, 38, 379-383.	2.6	22
50	Carrier transport mechanisms of bistable memory devices fabricated utilizing core-shell CdSe/ZnSe quantum-dot/multi-walled carbon nanotube hybrid nanocomposites. <i>Nanotechnology</i> , 2009, 20, 085202.	2.6	21
51	Rational design and synthesis of cationic Ir(III) complexes with triazolate cyclometalated and ancillary ligands for multi-color tuning. <i>Dyes and Pigments</i> , 2017, 139, 524-532.	3.7	21
52	Photovoltaic cells fabricated utilizing core-shell CdSe/ZnSe quantum dot/multiwalled carbon nanotube heterostructures. <i>Applied Physics Letters</i> , 2009, 95, 061911.	3.3	20
53	Importance of domain purity in semi-conducting polymer/insulating polymer blends transistors. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1760-1766.	2.1	20
54	High-brightness perovskite quantum dot light-emitting devices using inkjet printing. <i>Organic Electronics</i> , 2021, 93, 106168.	2.6	20

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55	Synthesis of red-emitting cationic Ir (III) complex and its application in white light-emitting electrochemical cells. <i>Organic Electronics</i> , 2017, 42, 303-308.	2.6	19
56	Electrical bistabilities and operating mechanisms of memory devices fabricated utilizing ZnO quantum dot@“multi-walled carbon nanotube nanocomposites. <i>Nanotechnology</i> , 2009, 20, 185202.	2.6	18
57	Highly flexible memristive devices based on MoS ₂ quantum dots sandwiched between PMSSQ layers. <i>Dalton Transactions</i> , 2019, 48, 2422-2429.	3.3	18
58	Emissions at Perovskite Quantum Dot/Film Interface with Halide Anion Exchange. <i>ACS Photonics</i> , 2018, 5, 4504-4512.	6.6	17
59	Large Size Color-tunable Electroluminescence from Cationic Iridium Complexes-based Light-emitting Electrochemical Cells. <i>Scientific Reports</i> , 2016, 6, 27613.	3.3	16
60	All-solution-processed high-performance quantum dot light emitting devices employing an inorganic thiocyanate as hole injection layer. <i>Organic Electronics</i> , 2019, 70, 279-285.	2.6	16
61	Construction of Hierarchical SnO ₂ @NC@MoS ₂ /C Nanotubes for Ultrastable Lithium- and Sodium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 3166-3179.	6.7	16
62	Formation and field emission of patterned zinc oxide-adhering graphene cathodes. <i>Vacuum</i> , 2013, 89, 57-61.	3.5	15
63	Aqueous solution-processed molybdenum oxide as an efficient hole injection layer for flexible quantum dot light emitting diodes. <i>Thin Solid Films</i> , 2019, 669, 387-391.	1.8	15
64	Nonvolatile electrical bistability and operating mechanism of memory devices based on CdSe/ZnS nanoparticle/polymer hybrid composites. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	14
65	Boosting the performance of quantum dot light-emitting diodes with Mg and PVP Co-doped ZnO as electron transport layer. <i>Organic Electronics</i> , 2019, 75, 105411.	2.6	14
66	Bio-inspired smart electronic-skin based on inorganic perovskite nanoplates for application in photomemories and mechanoreceptors. <i>Nanoscale</i> , 2021, 13, 253-260.	5.6	14
67	Field emission arrays fabricated utilizing conjugated ZnO quantum dot/carbon nanotube hybrid nanocomposite. <i>Applied Surface Science</i> , 2011, 257, 4539-4542.	6.1	13
68	Inkjet-printed pixelated light-emitting electrochemical cells based on cationic Ir(III) complexes. <i>Organic Electronics</i> , 2019, 69, 336-342.	2.6	13
69	Efficient quantum dot light-emitting diodes with ultra-homogeneous and highly ordered quantum dot monolayer. <i>Science China Materials</i> , 2022, 65, 757-763.	6.3	13
70	Highly flexible light emitting diodes based on a quantum dots-polymer composite emitting layer. <i>Vacuum</i> , 2019, 163, 282-286.	3.5	12
71	Highly efficient inverted quantum dot light-emitting diodes employing sol-gel derived Li-doped ZnO as electron transport layer. <i>Organic Electronics</i> , 2022, 103, 106466.	2.6	12
72	Efficient Hole Injection of MoO _x -Doped Organic Layer for Printable Red Quantum Dot Light-Emitting Diodes. <i>IEEE Electron Device Letters</i> , 2019, 40, 1147-1150.	3.9	10

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73	Intelligent, biomimetic, color-tunable, light-emitting artificial skin with memory function. <i>Nano Energy</i> , 2021, 90, 106569.	16.0	10
74	A surface-conducted field emission device with suspended graphene cathodes. <i>Applied Surface Science</i> , 2013, 273, 432-436.	6.1	9
75	Flexible Memristive Device Based on WSe_2 Quantum Dots Sandwiched Between Two Poly (Methyl Methacrylate) Layers. <i>IEEE Electron Device Letters</i> , 2019, 40, 1088-1091.	3.9	9
76	Quantum Dot Self-Assembly Deposition in Physically Confined Microscale Space by Using an Inkjet Printing Technique. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8605-8613.	4.6	9
77	Mixed-Halide Perovskite Film-Based Neuromorphic Phototransistors for Mimicking Experience-History-Dependent Sensory Adaptation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47807-47816.	8.0	9
78	Transparent and flexible nonvolatile memory using poly(methylsilsequioxane) dielectric embedded with cadmium selenide quantum dots. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 125001.	1.5	8
79	Fast-response, high-stability, and high-efficiency full-color quantum dot light-emitting diodes with charge storage layer. <i>Science China Materials</i> , 2022, 65, 1012-1019.	6.3	8
80	Performance Enhancement of Quantum Dot Light-Emitting Diodes via Surface Modification of the Emitting Layer. <i>ACS Applied Nano Materials</i> , 2022, 5, 2962-2972.	5.0	8
81	Highly Reliable Electronic Synapse Based on $Au@Al_2O_3$ Core-Shell Nanoparticles for Neuromorphic Applications. <i>IEEE Electron Device Letters</i> , 2019, 40, 1610-1613.	3.9	7
82	Achieving Highly Efficient and Stable Quantum Dot Light-Emitting Diodes With Interface Modification. <i>IEEE Electron Device Letters</i> , 2020, 41, 1384-1387.	3.9	7
83	Formation and carrier transport properties of single-layer graphene/poly (methyl methacrylate) nanocomposite for resistive memory application. <i>Vacuum</i> , 2014, 101, 246-249.	3.5	6
84	Electrical Bistabilities and Conduction Mechanisms of Nonvolatile Memories Based on a Polymethylsilsequioxane Insulating Layer Containing CdSe/ZnS Quantum Dots. <i>Journal of Electronic Materials</i> , 2015, 44, 3962-3966.	2.2	6
85	Electrical and optical properties of flexible conductive carbon nanotube/Ag/Al-doped zinc oxide multilayer coatings. <i>Thin Solid Films</i> , 2012, 525, 93-96.	1.8	5
86	Dinuclear Ir(III) complexes with asymmetrical bridging ligands as highly efficient phosphors for single-layer electroluminescent devices. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13461-13467.	5.5	4
87	E-Synapse Based on Lead-Free Organic Halide Perovskite $(CH_3NH_3)3Sb_2Cl_9$ for Neuromorphic Computing. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 4425-4430.	3.0	4
88	Operating Mechanism of Quantum-Dot Light-Emitting Diodes Under Alternating Current-Drive. <i>IEEE Electron Device Letters</i> , 2022, 43, 256-259.	3.9	4
89	Enhanced ultraviolet emission from ZnO nanocrystals embedded in a hybrid polymer composite layer. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	2
90	Preparation of Polycrystalline Mixed Graphene Film with Benzene Solution by Electromagnetic Induction for Application in Metal Corrosion Protection. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001947.	3.7	1

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91	Solution-processed white light-emitting device with polymer/quantum-dot composite emission layers. <i>Chemical Physics Letters</i> , 2021, 776, 138668.	2.6	1
92	Carrier Transport Mechanisms of the Writing and the Erasing Processes for Al/ZnO Nanoparticles Embedded in a Polymethyl Methacrylate Layer/Al ₂ O ₃ /p-Si Diodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 4721-4724.	0.9	0
93	Polymer Light-Emitting Diodes with a thiocyanate hole injection layer. <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 1693-1695.	0.3	0
94	Enhancing carrier injection efficiency of light-emitting electrochemical cells based on Cationic Ir(III) complexes by interface modification. <i>Optical Materials</i> , 2021, 117, 111127.	3.6	0