Guoxia Liu

List of Publications by Year in descending order

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76 papers	3,709 citations	101496 36 h-index	133188 59 g-index
79 all docs	79 docs citations	79 times ranked	3363 citing authors

#	Article	IF	Citations
1	Fully Solution-Processed Low-Voltage Aqueous In₂O₃ Thin-Film Transistors Using an Ultrathin ZrO_x Dielectric. ACS Applied Materials & Interfaces, 2014, 6, 17364-17369.	4.0	166
2	Lowâ€Temperature, Nontoxic Waterâ€Induced Metalâ€Oxide Thin Films and Their Application in Thinâ€Film Transistors. Advanced Functional Materials, 2015, 25, 2564-2572.	7.8	161
3	Solution Processed Metal Oxide Highâ€Îº Dielectrics for Emerging Transistors and Circuits. Advanced Materials, 2018, 30, e1706364.	11.1	158
4	Perovskite and Conjugated Polymer Wrapped Semiconducting Carbon Nanotube Hybrid Films for High-Performance Transistors and Phototransistors. ACS Nano, 2019, 13, 3971-3981.	7.3	151
5	Waterâ€Induced Scandium Oxide Dielectric for Lowâ€Operating Voltage nâ€and pâ€Type Metalâ€Oxide Thinâ€Film Transistors. Advanced Functional Materials, 2015, 25, 7180-7188.	7.8	147
6	Solution Combustion Synthesis: Lowâ€Temperature Processing for pâ€Type Cu:NiO Thin Films for Transparent Electronics. Advanced Materials, 2017, 29, 1701599.	11.1	145
7	Doping: A Key Enabler for Organic Transistors. Advanced Materials, 2018, 30, e1801830.	11.1	141
8	Printable Semiconductors for Backplane TFTs of Flexible OLED Displays. Advanced Functional Materials, 2020, 30, 1904588.	7.8	136
9	Roomâ€Temperature Solutionâ€Synthesized pâ€Type Copper(I) Iodide Semiconductors for Transparent Thinâ€Film Transistors and Complementary Electronics. Advanced Materials, 2018, 30, e1802379.	11.1	125
10	Hole mobility modulation of solution-processed nickel oxide thin-film transistor based on high-k dielectric. Applied Physics Letters, 2016, 108, .	1.5	122
11	High-performance inorganic metal halide perovskite transistors. Nature Electronics, 2022, 5, 78-83.	13.1	121
12	High-performance p-channel transistors with transparent Zn doped-CuI. Nature Communications, 2020, 11, 4309.	5.8	94
13	Low-temperature, nontoxic water-induced high-k zirconium oxide dielectrics for low-voltage, high-performance oxide thin-film transistors. Journal of Materials Chemistry C, 2016, 4, 10715-10721.	2.7	87
14	Highâ€Performance and Reliable Leadâ€Free Layeredâ€Perovskite Transistors. Advanced Materials, 2020, 32, e2002717.	11.1	86
15	High-mobility p-type NiO_x thin-film transistors processed at low temperatures with Al₂O₃ high-k dielectric. Journal of Materials Chemistry C, 2016, 4, 9438-9444.	2.7	82
16	Solution-processed inorganic p-channel transistors: Recent advances and perspectives. Materials Science and Engineering Reports, 2019, 135, 85-100.	14.8	74
17	Engineering Copper Iodide (CuI) for Multifunctional pâ€Type Transparent Semiconductors and Conductors. Advanced Science, 2021, 8, 2100546.	5.6	74
18	Low-temperature fabrication of high performance indium oxide thin film transistors. RSC Advances, 2015, 5, 37807-37813.	1.7	73

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19	In situ one-step synthesis of p-type copper oxide for low-temperature, solution-processed thin-film transistors. Journal of Materials Chemistry C, 2017, 5, 2524-2530.	2.7	70
20	Redox Chloride Elimination Reaction: Facile Solution Route for Indiumâ€Free, Lowâ€Voltage, and Highâ€Performance Transistors. Advanced Electronic Materials, 2017, 3, 1600513.	2.6	66
21	Photochemical Activation of Electrospun In₂O₃ Nanofibers for High-Performance Electronic Devices. ACS Applied Materials & Interfaces, 2017, 9, 10805-10812.	4.0	66
22	Eco-friendly water-induced aluminum oxide dielectrics and their application in a hybrid metal oxide/polymer TFT. RSC Advances, 2015, 5, 86606-86613.	1.7	65
23	Solution-processed p-type copper oxide thin-film transistors fabricated by using a one-step vacuum annealing technique. Journal of Materials Chemistry C, 2015, 3, 9509-9513.	2.7	56
24	Solution-Processed, Electrolyte-Gated In₂O₃ Flexible Synaptic Transistors for Brain-Inspired Neuromorphic Applications. ACS Applied Materials & Interfaces, 2020, 12, 1061-1068.	4.0	56
25	Essential Effects on the Mobility Extraction Reliability for Organic Transistors. Advanced Functional Materials, 2018, 28, 1803907.	7.8	54
26	Solution-processed ytterbium oxide dielectrics for low-voltage thin-film transistors and inverters. Ceramics International, 2017, 43, 15194-15200.	2.3	52
27	Solution-processed ternary p-type CuCrO₂ semiconductor thin films and their application in transistors. Journal of Materials Chemistry C, 2018, 6, 1393-1398.	2.7	51
28	High-performance hysteresis-free perovskite transistors through anion engineering. Nature Communications, 2022, 13, 1741.	5.8	51
29	Solution-Processed SrO_x-Gated Oxide Thin-Film Transistors and Inverters. IEEE Transactions on Electron Devices, 2017, 64, 4137-4143.	1.6	50
30	A water-induced high-k yttrium oxide dielectric for fully-solution-processed oxide thin-film transistors. Current Applied Physics, 2015, 15, S75-S81.	1.1	47
31	Electrospun p-Type Nickel Oxide Semiconducting Nanowires for Low-Voltage Field-Effect Transistors. ACS Applied Materials & Interfaces, 2018, 10, 25841-25849.	4.0	47
32	Welded silver nanowire networks as high-performance transparent conductive electrodes: Welding techniques and device applications. Applied Materials Today, 2020, 20, 100634.	2.3	47
33	Eco-friendly, solution-processed In-W-O thin films and their applications in low-voltage, high-performance transistors. Journal of Materials Chemistry C, 2016, 4, 4478-4484.	2.7	45
34	Solutionâ€Processed Alkaline Lithium Oxide Dielectrics for Applications in nâ€•and pâ€Type Thinâ€Film Transistors. Advanced Electronic Materials, 2016, 2, 1600140.	2.6	45
35	Nature-Inspired Capillary-Driven Welding Process for Boosting Metal-Oxide Nanofiber Electronics. ACS Applied Materials & Interfaces, 2018, 10, 20703-20711.	4.0	40
36	Electrospun ZnSnO Nanofibers for Neuromorphic Transistors With Ultralow Energy Consumption. IEEE Electron Device Letters, 2019, 40, 1776-1779.	2.2	40

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37	Polyol Reduction: A Low-Temperature Eco-Friendly Solution Process for p-Channel Copper Oxide-Based Transistors and Inverter Circuits. ACS Applied Materials & Interfaces, 2019, 11, 33157-33164.	4.0	37
38	Electrospun p-type CuO nanofibers for low-voltage field-effect transistors. Applied Physics Letters, 2017, 111, .	1.5	31
39	High-performance field-effect transistors based on gadolinium doped indium oxide nanofibers and their application in logic gate. Applied Physics Letters, 2018, 112, .	1.5	29
40	Low-voltage and high-performance field-effect transistors based on Zn_xSn_{1â^'x}O nanofibers with a ZrO_x dielectric. Nanoscale, 2018, 10, 14712-14718.	2.8	29
41	High-Performance Indium Oxide Thin-Film Transistors With Aluminum Oxide Passivation. IEEE Electron Device Letters, 2019, 40, 1949-1952.	2.2	29
42	High-Performance Layered Perovskite Transistors and Phototransistors by Binary Solvent Engineering. Chemistry of Materials, 2021, 33, 1174-1181.	3.2	29
43	Effect of Monovalent Metal Iodide Additives on the Optoelectric Properties of Two-Dimensional Sn-Based Perovskite Films. Chemistry of Materials, 2021, 33, 2498-2505.	3.2	28
44	Molecule Charge Transfer Doping for pâ€Channel Solutionâ€Processed Copper Oxide Transistors. Advanced Functional Materials, 2020, 30, 2002625.	7.8	26
45	A high performance <scp>UWB MIMO</scp> antenna with defected ground structure and Uâ€shape branches. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22270.	0.8	24
46	Fast electrochromic switching of electrospun Cu-doped NiO nanofibers. Scripta Materialia, 2020, 178, 472-476.	2.6	23
47	Transparent Inorganic Copper Bromide (CuBr) p-Channel Transistors Synthesized From Solution at Room Temperature. IEEE Electron Device Letters, 2019, 40, 769-772.	2.2	22
48	Low-Temperature Fabrication of Nontoxic Indium Oxide Nanofibers and Their Application in Field-Effect Transistors. IEEE Electron Device Letters, 2020, 41, 413-416.	2.2	22
49	Inhibition of minority transport for elevating the thermoelectric figure of merit of CuO/BiSbTe nanocomposites at high temperatures. RSC Advances, 2016, 6, 112050-112056.	1.7	19
50	Perovskite transistors clean up their act. Nature Electronics, 2020, 3, 662-663.	13.1	18
51	Molecular Doping Enabling Mobility Boosting of 2D Sn²⁺â€Based Perovskites. Advanced Functional Materials, 2022, 32, .	7.8	18
52	Self-Welding and Low-Temperature Formation of Metal Oxide Nanofiber Networks and its Application to Electronic Devices. IEEE Electron Device Letters, 2020, 41, 62-65.	2.2	17
53	Key Roles of Trace Oxygen Treatment for Highâ€Performance Znâ€Doped CuI pâ€Channel Transistors. Advanced Electronic Materials, 2021, 7, .	2.6	17
54	Highly Reliable Organic Field-Effect Transistors with Molecular Additives for a High-Performance Printed Gas Sensor. ACS Applied Materials & Interfaces, 2021, 13, 4278-4283.	4.0	17

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55	Modulation of vacancy-ordered double perovskite Cs2SnI6 for air-stable thin-film transistors. Cell Reports Physical Science, 2022, 3, 100812.	2.8	17
56	Transparent Electronics: Roomâ€Temperature Solutionâ€Synthesized pâ€Type Copper(I) Iodide Semiconductors for Transparent Thinâ€Film Transistors and Complementary Electronics (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.1	16
57	Recent progress on metal halide perovskite field-effect transistors. Journal of Information Display, 2021, 22, 257-268.	2.1	16
58	High performance electronic devices based on nanofibers via a crosslinking welding process. Nanoscale, 2018, 10, 19427-19434.	2.8	15
59	A Lewis base and boundary passivation bifunctional additive for high performance lead-free layered-perovskite transistors and phototransistors. Materials Today Energy, 2021, 21, 100722.	2.5	15
60	Wafer-scale fabrication of a Cu/graphene double-nanocap array for surface-enhanced Raman scattering substrates. Chemical Communications, 2017, 53, 3273-3276.	2.2	14
61	Sodium Incorporation for Enhanced Performance of Two-Dimensional Sn-Based Perovskite Transistors. ACS Applied Materials & Interfaces, 2022, 14, 9363-9367.	4.0	14
62	Draw Spinning of Waferâ€Scale Oxide Fibers for Electronic Devices. Advanced Electronic Materials, 2018, 4, 1700644.	2.6	13
63	Reliable Mobility Evaluation of Organic Field-Effect Transistors With Different Contact Metals. IEEE Electron Device Letters, 2019, 40, 605-608.	2.2	13
64	Performance Enhancement of Field-Effect Transistors Based on Inâ„Oâ‚ƒ Nanofiber Networks by Plasma Treatment. IEEE Electron Device Letters, 2021, 42, 176-179.	2.2	12
65	Enhancement-mode field-effect transistors based on Ti-doped In₂O₃ nanowires fabricated by electrospinning. Journal Physics D: Applied Physics, 2019, 52, 225102.	1.3	9
66	The role of oxygen in determining the electrical performance of ZnSnO nanofiber field-effect transistors. Journal Physics D: Applied Physics, 2020, 53, 015109.	1.3	8
67	UV-Treated ZrO₂ Passivation for Transparent and High-Stability In₂O₃ Thin Film Transistor. IEEE Transactions on Electron Devices, 2022, 69, 3722-3726.	1.6	7
68	Solutionâ€Processed Highâ€Performance pâ€Type Perovskite NdAlO₃ Thin Films for Transparent Electronics. Advanced Electronic Materials, 2020, 6, 1901110.	2.6	6
69	Highly Ambient-Stable Organic Thin-Film Transistors Fabricated Using Naphthalene Diimide and Thienyleneâ€“Vinyleneâ€“Thienylene-Based n-Type Polymers with Different Electron-Withdrawing Groups. Journal of Physical Chemistry C, 2020, 124, 20784-20793.	1.5	4
70	Performance improvement of thin-film transistors with In₂O₃ channel engineering. Journal of Asian Ceramic Societies, 2022, 10, 660-665.	1.0	3
71	Printable Transistors: Printable Semiconductors for Backplane TFTs of Flexible OLED Displays (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlock	7.8	1
72	22.1: Invited Paper: Solution processable pâ€type metal halide semiconductors for high performance transparent pâ€channel thinâ€film transistors. Digest of Technical Papers SID International Symposium, 2019, 50, 215-215.	0.1	0

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73	Pâ€5.6: High performance solutionâ€processed pâ€type NdAlO₃ semiconductor thin films and their application in transistors. Digest of Technical Papers SID International Symposium, 2019, 50, 737-737.	0.1	0
74	pâ€Doping Methods: Molecule Charge Transfer Doping for pâ€Channel Solutionâ€Processed Copper Oxide Transistors (Adv. Funct. Mater. 24/2020). Advanced Functional Materials, 2020, 30, 2070151.	7.8	0
75	8â€4: Invited Paper: Transparent Zn Dopedâ€CuI for Highâ€Performance pâ€Channel Thin Film Transistors. Digest of Technical Papers SID International Symposium, 2021, 52, 89-91.	0.1	0
76	Pâ€17: Lowâ€Temperature, Solutionâ€Processed Inorganic pâ€Channel Cuâ€based Thinâ€Film Transistors and Circuits. Digest of Technical Papers SID International Symposium, 2020, 51, 1372-1374.	0.1	0