

Guoxia Liu

List of Publications by Year in descending order

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101543

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3363
citing authors

#	ARTICLE	IF	CITATIONS
1	Fully Solution-Processed Low-Voltage Aqueous In ₂ O ₃ Thin-Film Transistors Using an Ultrathin ZrO _x Dielectric. ACS Applied Materials & Interfaces, 2014, 6, 17364-17369.	8.0	166
2	Low-Temperature, Nontoxic Water-Induced Metal-Oxide Thin Films and Their Application in Thin-Film Transistors. Advanced Functional Materials, 2015, 25, 2564-2572.	14.9	161
3	Solution Processed Metal Oxide High- ϵ^* Dielectrics for Emerging Transistors and Circuits. Advanced Materials, 2018, 30, e1706364.	21.0	158
4	Perovskite and Conjugated Polymer Wrapped Semiconducting Carbon Nanotube Hybrid Films for High-Performance Transistors and Phototransistors. ACS Nano, 2019, 13, 3971-3981.	14.6	151
5	Water-Induced Scandium Oxide Dielectric for Low-Operating Voltage n- and p-Type Metal-Oxide Thin-Film Transistors. Advanced Functional Materials, 2015, 25, 7180-7188.	14.9	147
6	Solution Combustion Synthesis: Low-Temperature Processing for p-Type Cu:NiO Thin Films for Transparent Electronics. Advanced Materials, 2017, 29, 1701599.	21.0	145
7	Doping: A Key Enabler for Organic Transistors. Advanced Materials, 2018, 30, e1801830.	21.0	141
8	Printable Semiconductors for Backplane TFTs of Flexible OLED Displays. Advanced Functional Materials, 2020, 30, 1904588.	14.9	136
9	Room-Temperature Solution-Synthesized p-Type Copper(I) Iodide Semiconductors for Transparent Thin-Film Transistors and Complementary Electronics. Advanced Materials, 2018, 30, e1802379.	21.0	125
10	Hole mobility modulation of solution-processed nickel oxide thin-film transistor based on high-k dielectric. Applied Physics Letters, 2016, 108, .	3.3	122
11	High-performance inorganic metal halide perovskite transistors. Nature Electronics, 2022, 5, 78-83.	26.0	121
12	High-performance p-channel transistors with transparent Zn doped-CuI. Nature Communications, 2020, 11, 4309.	12.8	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.	5.5	87
14	High-Performance and Reliable Lead-Free Layered Perovskite Transistors. Advanced Materials, 2020, 32, e2002717.	21.0	86
15	High-mobility p-type NiO _x thin-film transistors processed at low temperatures with Al ₂ O ₃ high-k dielectric. Journal of Materials Chemistry C, 2016, 4, 9438-9444.	5.5	82
16	Solution-processed inorganic p-channel transistors: Recent advances and perspectives. Materials Science and Engineering Reports, 2019, 135, 85-100.	31.8	74
17	Engineering Copper Iodide (CuI) for Multifunctional p-Type Transparent Semiconductors and Conductors. Advanced Science, 2021, 8, 2100546.	11.2	74
18	Low-temperature fabrication of high performance indium oxide thin film transistors. RSC Advances, 2015, 5, 37807-37813.	3.6	73

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19	In situ one-step synthesis of p-type copper oxide for low-temperature, solution-processed thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2524-2530.	5.5	70
20	Redox Chloride Elimination Reaction: Facile Solution Route for Indium-Free, Low-Voltage, and High-Performance Transistors. <i>Advanced Electronic Materials</i> , 2017, 3, 1600513.	5.1	66
21	Photochemical Activation of Electrospun In_2O_3 Nanofibers for High-Performance Electronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10805-10812.	8.0	66
22	Eco-friendly water-induced aluminum oxide dielectrics and their application in a hybrid metal oxide/polymer TFT. <i>RSC Advances</i> , 2015, 5, 86606-86613.	3.6	65
23	Solution-processed p-type copper oxide thin-film transistors fabricated by using a one-step vacuum annealing technique. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9509-9513.	5.5	56
24	Solution-Processed, Electrolyte-Gated In_2O_3 Flexible Synaptic Transistors for Brain-Inspired Neuromorphic Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1061-1068.	8.0	56
25	Essential Effects on the Mobility Extraction Reliability for Organic Transistors. <i>Advanced Functional Materials</i> , 2018, 28, 1803907.	14.9	54
26	Solution-processed ytterbium oxide dielectrics for low-voltage thin-film transistors and inverters. <i>Ceramics International</i> , 2017, 43, 15194-15200.	4.8	52
27	Solution-processed ternary p-type CuCrO_2 semiconductor thin films and their application in transistors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1393-1398.	5.5	51
28	High-performance hysteresis-free perovskite transistors through anion engineering. <i>Nature Communications</i> , 2022, 13, 1741.	12.8	51
29	Solution-Processed SrO_x -Gated Oxide Thin-Film Transistors and Inverters. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 4137-4143.	3.0	50
30	A water-induced high-k yttrium oxide dielectric for fully-solution-processed oxide thin-film transistors. <i>Current Applied Physics</i> , 2015, 15, S75-S81.	2.4	47
31	Electrospun <i>p</i> -Type Nickel Oxide Semiconducting Nanowires for Low-Voltage Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25841-25849.	8.0	47
32	Welded silver nanowire networks as high-performance transparent conductive electrodes: Welding techniques and device applications. <i>Applied Materials Today</i> , 2020, 20, 100634.	4.3	47
33	Eco-friendly, solution-processed In-W-O thin films and their applications in low-voltage, high-performance transistors. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4478-4484.	5.5	45
34	Solution-Processed Alkaline Lithium Oxide Dielectrics for Applications in n - and p -Type Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2016, 2, 1600140.	5.1	45
35	Nature-Inspired Capillary-Driven Welding Process for Boosting Metal-Oxide Nanofiber Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20703-20711.	8.0	40
36	Electrospun ZnSnO Nanofibers for Neuromorphic Transistors With Ultralow Energy Consumption. <i>IEEE Electron Device Letters</i> , 2019, 40, 1776-1779.	3.9	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. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33157-33164.	8.0	37
38	Electrospun p-type CuO nanofibers for low-voltage field-effect transistors. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	31
39	High-performance field-effect transistors based on gadolinium doped indium oxide nanofibers and their application in logic gate. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	29
40	Low-voltage and high-performance field-effect transistors based on Zn _x Sn _{1-x} O nanofibers with a ZrO ₂ dielectric. <i>Nanoscale</i> , 2018, 10, 14712-14718.	5.6	29
41	High-Performance Indium Oxide Thin-Film Transistors With Aluminum Oxide Passivation. <i>IEEE Electron Device Letters</i> , 2019, 40, 1949-1952.	3.9	29
42	High-Performance Layered Perovskite Transistors and Phototransistors by Binary Solvent Engineering. <i>Chemistry of Materials</i> , 2021, 33, 1174-1181.	6.7	29
43	Effect of Monovalent Metal Iodide Additives on the Optoelectric Properties of Two-Dimensional Sn-Based Perovskite Films. <i>Chemistry of Materials</i> , 2021, 33, 2498-2505.	6.7	28
44	Molecule Charge Transfer Doping for p-Channel Solution-Processed Copper Oxide Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 2002625.	14.9	26
45	A high performance UWB MIMO antenna with defected ground structure and U-shaped branches. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2021, 31, e22270.	1.2	24
46	Fast electrochromic switching of electrospun Cu-doped NiO nanofibers. <i>Scripta Materialia</i> , 2020, 178, 472-476.	5.2	23
47	Transparent Inorganic Copper Bromide (CuBr) p-Channel Transistors Synthesized From Solution at Room Temperature. <i>IEEE Electron Device Letters</i> , 2019, 40, 769-772.	3.9	22
48	Low-Temperature Fabrication of Nontoxic Indium Oxide Nanofibers and Their Application in Field-Effect Transistors. <i>IEEE Electron Device Letters</i> , 2020, 41, 413-416.	3.9	22
49	Inhibition of minority transport for elevating the thermoelectric figure of merit of CuO/BiSbTe nanocomposites at high temperatures. <i>RSC Advances</i> , 2016, 6, 112050-112056.	3.6	19
50	Perovskite transistors clean up their act. <i>Nature Electronics</i> , 2020, 3, 662-663.	26.0	18
51	Molecular Doping Enabling Mobility Boosting of 2D Sn ²⁺ -Based Perovskites. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	18
52	Self-Welding and Low-Temperature Formation of Metal Oxide Nanofiber Networks and its Application to Electronic Devices. <i>IEEE Electron Device Letters</i> , 2020, 41, 62-65.	3.9	17
53	Key Roles of Trace Oxygen Treatment for High-Performance Zn-Doped CuI p-Channel Transistors. <i>Advanced Electronic Materials</i> , 2021, 7, .	5.1	17
54	Highly Reliable Organic Field-Effect Transistors with Molecular Additives for a High-Performance Printed Gas Sensor. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4278-4283.	8.0	17

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55	Modulation of vacancy-ordered double perovskite Cs ₂ SnI ₆ for air-stable thin-film transistors. Cell Reports Physical Science, 2022, 3, 100812.	5.6	17
56	Transparent Electronics: Room-Temperature Solution-Synthesized p-Type Copper(I) Iodide Semiconductors for Transparent Thin-Film Transistors and Complementary Electronics (Adv. Mater.) Tj ETQq0 0 0.21 BT / Overlock 10 TF	5.6	15
57	Recent progress on metal halide perovskite field-effect transistors. Journal of Information Display, 2021, 22, 257-268.	4.0	16
58	High performance electronic devices based on nanofibers <i>via</i> a crosslinking welding process. Nanoscale, 2018, 10, 19427-19434.	5.6	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.	4.7	15
60	Wafer-scale fabrication of a Cu/graphene double-nanocap array for surface-enhanced Raman scattering substrates. Chemical Communications, 2017, 53, 3273-3276.	4.1	14
61	Sodium Incorporation for Enhanced Performance of Two-Dimensional Sn-Based Perovskite Transistors. ACS Applied Materials & Interfaces, 2022, 14, 9363-9367.	8.0	14
62	Draw Spinning of Wafer-Scale Oxide Fibers for Electronic Devices. Advanced Electronic Materials, 2018, 4, 1700644.	5.1	13
63	Reliable Mobility Evaluation of Organic Field-Effect Transistors With Different Contact Metals. IEEE Electron Device Letters, 2019, 40, 605-608.	3.9	13
64	Performance Enhancement of Field-Effect Transistors Based on In ₂ O ₃ Nanofiber Networks by Plasma Treatment. IEEE Electron Device Letters, 2021, 42, 176-179.	3.9	12
65	Enhancement-mode field-effect transistors based on Ti-doped In ₂ O ₃ nanowires fabricated by electrospinning. Journal Physics D: Applied Physics, 2019, 52, 225102.	2.8	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.	2.8	8
67	UV-Treated ZrO ₂ Passivation for Transparent and High-Stability In ₂ O ₃ Thin Film Transistor. IEEE Transactions on Electron Devices, 2022, 69, 3722-3726.	3.0	7
68	Solution-Processed High-Performance p-Type Perovskite NdAlO ₃ Thin Films for Transparent Electronics. Advanced Electronic Materials, 2020, 6, 1901110.	5.1	6
69	Highly Ambient-Stable Organic Thin-Film Transistors Fabricated Using Naphthalene Diimide and Thienylene-Vinylene-Based n-Type Polymers with Different Electron-Withdrawing Groups. Journal of Physical Chemistry C, 2020, 124, 20784-20793.	3.1	4
70	Performance improvement of thin-film transistors with In ₂ O ₃ channel engineering. Journal of Asian Ceramic Societies, 2022, 10, 660-665.	2.3	3
71	Printable Transistors: Printable Semiconductors for Backplane TFTs of Flexible OLED Displays (Adv.) Tj ETQq1 1 0.784314 rgBT / Overlock 1	14.9	1
72	22.1: <i>Invited Paper:</i> Solution processable p-type metal halide semiconductors for high performance transparent channel thin-film transistors. Digest of Technical Papers SID International Symposium, 2019, 50, 215-215.	0.3	0

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73	P.6: High performance solutionâprocessed pâtype NdAlO_3 semiconductor thin films and their application in transistors. Digest of Technical Papers SID International Symposium, 2019, 50, 737-737.	0.3	0
74	pâDoping Methods: Molecule Charge Transfer Doping for pâChannel SolutionâProcessed Copper Oxide Transistors (Adv. Funct. Mater. 24/2020). Advanced Functional Materials, 2020, 30, 2070151.	14.9	0
75	8: Invited Paper: Transparent Zn DopedâCuI for HighâPerformance pâChannel Thin Film Transistors. Digest of Technical Papers SID International Symposium, 2021, 52, 89-91.	0.3	0
76	P.7: LowâTemperature, SolutionâProcessed Inorganic pâChannel Cuâbased ThinâFilm Transistors and Circuits. Digest of Technical Papers SID International Symposium, 2020, 51, 1372-1374.	0.3	0