

Yong Xu

List of Publications by Year in descending order

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56
papers

2,928
citations

201674

27
h-index

161849

54
g-index

60
all docs

60
docs citations

60
times ranked

3715
citing authors

#	ARTICLE	IF	CITATIONS
1	Contact engineering in organic field-effect transistors. <i>Materials Today</i> , 2015, 18, 79-96.	14.2	407
2	Current Status and Opportunities of Organic Thin-Film Transistor Technologies. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 1906-1921.	3.0	224
3	Direct evaluation of low-field mobility and access resistance in pentacene field-effect transistors. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	181
4	Solution Processed Metal Oxide High- κ Dielectrics for Emerging Transistors and Circuits. <i>Advanced Materials</i> , 2018, 30, e1706364.	21.0	158
5	Doping: A Key Enabler for Organic Transistors. <i>Advanced Materials</i> , 2018, 30, e1801830.	21.0	141
6	Printable Semiconductors for Backplane TFTs of Flexible OLED Displays. <i>Advanced Functional Materials</i> , 2020, 30, 1904588.	14.9	136
7	Highly enhanced charge injection in thienoacene-based organic field-effect transistors with chemically doped contact. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	130
8	Room-Temperature Solution-Synthesized p-Type Copper(I) Iodide Semiconductors for Transparent Thin-Film Transistors and Complementary Electronics. <i>Advanced Materials</i> , 2018, 30, e1802379.	21.0	125
9	Control of Ambipolar and Unipolar Transport in Organic Transistors by Selective Inkjet-Printed Chemical Doping for High Performance Complementary Circuits. <i>Advanced Functional Materials</i> , 2014, 24, 6252-6261.	14.9	116
10	Development of high-performance printed organic field-effect transistors and integrated circuits. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26553-26574.	2.8	100
11	Large Enhancement of Carrier Transport in Solution-Processed Field-Effect Transistors by Fluorinated Dielectric Engineering. <i>Advanced Materials</i> , 2016, 28, 518-526.	21.0	87
12	High-Mobility Naphthalene Diimide and Selenophene-Vinylene-Selenophene-Based Conjugated Polymer: n-Channel Organic Field-Effect Transistors and Structure-Property Relationship. <i>Advanced Functional Materials</i> , 2016, 26, 4984-4997.	14.9	75
13	Origin of Noise in Layered MoTe_2 Transistors and its Possible Use for Environmental Sensors. <i>Advanced Materials</i> , 2015, 27, 6612-6619.	21.0	72
14	Exploring the Charge Transport in Conjugated Polymers. <i>Advanced Materials</i> , 2017, 29, 1702729.	21.0	70
15	Solution-processed organic crystals for field-effect transistor arrays with smooth semiconductor/dielectric interface on paper substrates. <i>Organic Electronics</i> , 2012, 13, 815-819.	2.6	65
16	Planar-Processed Polymer Transistors. <i>Advanced Materials</i> , 2016, 28, 8531-8537.	21.0	60
17	Effect of Doping Concentration on Microstructure of Conjugated Polymers and Characteristics in n-Type Polymer Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2015, 25, 758-767.	14.9	54
18	Essential Effects on the Mobility Extraction Reliability for Organic Transistors. <i>Advanced Functional Materials</i> , 2018, 28, 1803907.	14.9	54

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19	Facile Route To Control the Ambipolar Transport in Semiconducting Polymers. Chemistry of Materials, 2016, 28, 2287-2294.	6.7	53
20	Facile Routes To Improve Performance of Solution-Processed Amorphous Metal Oxide Thin Film Transistors by Water Vapor Annealing. ACS Applied Materials & Interfaces, 2015, 7, 13289-13294.	8.0	47
21	Carrier mobility in organic field-effect transistors. Journal of Applied Physics, 2011, 110, 104513.	2.5	43
22	Schottky Barrier in Organic Transistors. IEEE Transactions on Electron Devices, 2017, 64, 1932-1943.	3.0	42
23	Effect of Polymer Gate Dielectrics on Charge Transport in Carbon Nanotube Network Transistors: Low- κ Insulator for Favorable Active Interface. ACS Applied Materials & Interfaces, 2016, 8, 32421-32431.	8.0	35
24	Precise Extraction of Charge Carrier Mobility for Organic Transistors. Advanced Functional Materials, 2020, 30, 1904508.	14.9	34
25	Gradual Controlling the Work Function of Metal Electrodes by Solution-Processed Mixed Interlayers for Ambipolar Polymer Field-Effect Transistors and Circuits. Advanced Functional Materials, 2014, 24, 6484-6491.	14.9	32
26	Simultaneous Improvement of Hole and Electron Injection in Organic Field-effect Transistors by Conjugated Polymer-wrapped Carbon Nanotube Interlayers. Scientific Reports, 2015, 5, 10407.	3.3	28
27	Regulating Charge Injection in Ambipolar Organic Field-Effect Transistors by Mixed Self-Assembled Monolayers. ACS Applied Materials & Interfaces, 2014, 6, 14493-14499.	8.0	27
28	Significant roles of low-temperature post-metallization annealing in solution-processed oxide thin-film transistors. Applied Physics Letters, 2014, 105, .	3.3	24
29	Spontaneous Doping at the Polymer-Polymer Interface for High-Performance Organic Transistors. ACS Applied Materials & Interfaces, 2019, 11, 12709-12716.	8.0	24
30	Universal diffusion-limited injection and the hook effect in organic thin-film transistors. Scientific Reports, 2016, 6, 29811.	3.3	23
31	Evaluating injection and transport properties of organic field-effect transistors by the convergence point in transfer-length method. Applied Physics Letters, 2014, 104, .	3.3	20
32	Understanding Thickness-Dependent Charge Transport in Pentacene Transistors by Low-Frequency Noise. IEEE Electron Device Letters, 2013, 34, 1298-1300.	3.9	19
33	Joule's law for organic transistors exploration: Case of contact resistance. Journal of Applied Physics, 2013, 113, 064507.	2.5	19
34	Negative-Differential-Resistance Devices Achieved by Band-Structure Engineering in Silicene under Periodic Potentials. Physical Review Applied, 2018, 10, .	3.8	19
35	Role of Schottky Barrier and Access Resistance in Organic Field-Effect Transistors. Journal of Physical Chemistry Letters, 2020, 11, 1466-1472.	4.6	19
36	Theoretical analysis of carrier mobility in organic field-effect transistors. Applied Physics Letters, 2011, 98, .	3.3	16

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37	How small the contacts could be optimal for nanoscale organic transistors?. Organic Electronics, 2013, 14, 1797-1804.	2.6	16
38	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 rgBT /Overlock 10 Tf	2.6	16
39	On the Origin of Improved Charge Transport in Double-Gate In ^{0.5} Ga ^{0.5} ZnO Thin-Film Transistors: A Low-Frequency Noise Perspective. IEEE Electron Device Letters, 2015, 36, 1040-1043.	3.9	14
40	Contact Thickness Effects in Bottom-Contact Coplanar Organic Field-Effect Transistors. IEEE Electron Device Letters, 2013, 34, 535-537.	3.9	13
41	Reliable Mobility Evaluation of Organic Field-Effect Transistors With Different Contact Metals. IEEE Electron Device Letters, 2019, 40, 605-608.	3.9	13
42	Control of Threshold Voltage for Top-Gated Ambipolar Field-Effect Transistor by Gate Buffer Layer. ACS Applied Materials & Interfaces, 2016, 8, 17416-17420.	8.0	10
43	Understanding Thickness-Dependent Electrical Characteristics in Conjugated Polymer Transistors With Top-Gate Staggered Structure. IEEE Transactions on Electron Devices, 2019, 66, 2723-2728.	3.0	10
44	High-Voltage a-IGZO TFTs With the Stair Gate-Dielectric Structure. IEEE Transactions on Electron Devices, 2021, 68, 4462-4466.	3.0	10
45	Generating one-dimensional micro- or nano-structures with in-plane alignment by vapor-driven wetting kinetics. Materials Horizons, 2017, 4, 259-267.	12.2	9
46	Flexible Organic Amplifiers. IEEE Transactions on Electron Devices, 2017, 64, 1944-1954.	3.0	8
47	Sharply Increased Current in Asymmetrically Aligned Polycrystalline Polymer Transistors With Sub-Domain-Size Channels. IEEE Electron Device Letters, 2020, 41, 589-592.	3.9	6
48	Reliability of Ultrathin High- κ Dielectrics on Chemical-vapor Deposited 2D Semiconductors. , 2020, , .		5
49	400-V Amorphous IGZO Thin-Film Transistors With Drift Region Doped by Hydrogen. IEEE Transactions on Electron Devices, 2022, 69, 3732-3736.	3.0	5
50	Conjugated Polymers: Exploring the Charge Transport in Conjugated Polymers (Adv. Mater. 41/2017). Advanced Materials, 2017, 29, .	21.0	2
51	Suppressing off-state current via molecular orientation in submicrometer polymer field-effect transistors. Organic Electronics, 2020, 83, 105742.	2.6	2
52	Performance Limits and Potential of Multilayer Graphene-Tungsten Diselenide Heterostructures. Advanced Electronic Materials, 0, , 2100355.	5.1	2
53	Organic Field-Effect Transistors: Dramatic Inversion of Charge Polarity in Diketopyrrolopyrrole-Based Organic Field-Effect Transistors via a Simple Nitrile Group Substitution (Adv. Mater. 43/2014). Advanced Materials, 2014, 26, 7282-7282.	21.0	1
54	Printable Transistors: Printable Semiconductors for Backplane TFTs of Flexible OLED Displays (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	14.9	1

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55	Reliability of Ultrathin High κ Dielectrics on 2D Semiconductors. , 2021, , .		0
56	Corrections to “Sharply Increased Current in Asymmetrically Aligned Polycrystalline Polymer Transistors With Sub-Domain-Size Channels” [Apr 20 589-592]. IEEE Electron Device Letters, 2020, 41, 1265-1265.	3.9	0