Long-Zhen Qiu

List of Publications by Year
in descending order

77	2,411	186265	214800
papers	citations	28 h-index	47 g-index

79	79	79	2803
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Organic Thinâ€film Transistors Based on Polythiophene Nanowires Embedded in Insulating Polymer. Advanced Materials, 2009, 21, 1349-1353.	21.0	214
2	Versatile Use of Verticalâ€Phaseâ€Separationâ€Induced Bilayer Structures in Organic Thinâ€Film Transistors. Advanced Materials, 2008, 20, 1141-1145.	21.0	209
3	Highly selective and sensitive sensor based on an organic electrochemical transistor for the detection of ascorbic acid. Biosensors and Bioelectronics, 2018, 100, 235-241.	10.1	103
4	Inkjetâ€Printed Singleâ€Droplet Organic Transistors Based on Semiconductor Nanowires Embedded in Insulating Polymers. Advanced Functional Materials, 2010, 20, 3292-3297.	14.9	100
5	An ABA triblock copolymer strategy for intrinsically stretchable semiconductors. Journal of Materials Chemistry C, 2015, 3, 3599-3606.	5.5	93
6	Effective Use of Electrically Insulating Units in Organic Semiconductor Thin Films for Highâ€Performance Organic Transistors. Advanced Electronic Materials, 2017, 3, 1600240.	5.1	80
7	Chirality detection of amino acid enantiomers by organic electrochemical transistor. Biosensors and Bioelectronics, 2018, 105, 121-128.	10.1	73
8	A bis(2-oxoindolin-3-ylidene)-benzodifuran-dione containing copolymer for high-mobility ambipolar transistors. Chemical Communications, 2014, 50, 3180.	4.1	72
9	Polymer blends with semiconducting nanowires for organic electronics. Journal of Materials Chemistry, 2012, 22, 4244.	6.7	66
10	Enhanced near-infrared photoresponse of organic phototransistors based on single-component donorâ€“acceptor conjugated polymer nanowires. Nanoscale, 2016, 8, 7738-7748.	5.6	65
11	Organic Field-Effect Transistors with Macroporous Semiconductor Films as High-Performance Humidity Sensors. ACS Applied Materials & Interfaces, 2017, 9, 14974-14982.	8.0	62
12	Self-stratified semiconductor/dielectric polymer blends: vertical phase separation for facile fabrication of organic transistors. Journal of Materials Chemistry C, 2013, 1, 3989.	5.5	59
13	Incorporation of Heteroatoms in Conjugated Polymers Backbone toward Air-Stable, High-Performance n-Channel Unencapsulated Polymer Transistors. Chemistry of Materials, 2018, 30, 5451-5459.	6.7	55
14	Bar-Coated Ultrathin Semiconductors from Polymer Blend for One-Step Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2018, 10, 21510-21517.	8.0	50
15	Solutionâ€Processed Microporous Semiconductor Films for Highâ€Performance Chemical Sensors. Advanced Materials Interfaces, 2016, 3, 1600518.	3.7	47
16	Circularly Polarized Photodetectors Based on Chiral Materials: A Review. Frontiers in Chemistry, 2021, 9, 711488.	3.6	42
17	Highly sensitive detection of gallic acid based on organic electrochemical transistors with poly(diallyldimethylammonium chloride) and carbon nanomaterials nanocomposites functionalized gate electrodes. Sensors and Actuators B: Chemical, 2017, 246, 235-242.	7.8	41
18	Facile green synthesis of isoindigo-based conjugated polymers using aldol polycondensation. Polymer Chemistry, 2017, 8, 3448-3456.	3.9	38

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19	Ultrathin Polymer Nanofibrils for Solar-Blind Deep Ultraviolet Light Photodetectors Application. Nano Letters, 2020, 20, 644-651.	9.1	38
20	A new thieno-isoindigo derivative-based Dâ€“A polymer with very low bandgap for high-performance ambipolar organic thin-film transistors. Polymer Chemistry, 2015, 6, 3970-3978.	3.9	36
21	Improved Transistor Performance of Isoindigo-Based Conjugated Polymers by Chemically Blending Strongly Electron-Deficient Units with Low Content To Optimize Crystal Structure. Macromolecules, 2018, 51, 370-378.	4.8	36
22	One pot synthesis of a poly(3-hexylthiophene)-b-poly(quinoxaline-2,3-diyl) rodâ€“rod diblock copolymer and its tunable light emission properties. Polymer Chemistry, 2013, 4, 4588.	3.9	34
23	Fused Heptacyclic-Based Acceptorâ€“Donorâ€“Acceptor Small Molecules: N-Substitution toward High-Performance Solution-Processable Field-Effect Transistors. Chemistry of Materials, 2019, 31, 2027-2035.	6.7	33
24	Sb₂S₃ solar cells: functional layer preparation and device performance. Inorganic Chemistry Frontiers, 2019, 6, 3381-3397.	6.0	33
25	Bis(2-oxoindolin-3-ylidene)-benzodifuran-dione-based Dâ€“A polymers for high-performance n-channel transistors. Polymer Chemistry, 2015, 6, 2531-2540.	3.9	32
26	Tailoring Structure and Field-Effect Characteristics of Ultrathin Conjugated Polymer Films via Phase Separation. ACS Applied Materials & Interfaces, 2018, 10, 9602-9611.	8.0	32
27	Oneâ€pot synthesis of conjugated poly(3â€hexylthiophene)â€bâ€poly(phenyl isocyanide) hybrid rodâ€“rod block copolymers and its selfâ€assembling properties. Journal of Polymer Science Part A, 2013, 51, 2939-2947.	2.3	30
28	Flexible, Low-Voltage, and n-Type Infrared Organic Phototransistors with Enhanced Photosensitivity via Interface Trapping Effect. ACS Applied Materials & Interfaces, 2018, 10, 36177-36186.	8.0	30
29	Helical Nanofibrils of Block Copolymer for High-Performance Ammonia Sensors. ACS Applied Materials & Interfaces, 2018, 10, 22504-22512.	8.0	30
30	Intrinsically Stretchable n-Type Polymer Semiconductors through Side Chain Engineering. Macromolecules, 2021, 54, 8849-8859.	4.8	27
31	Phototransistors based on a donorâ€“acceptor conjugated polymer with a high response speed. Journal of Materials Chemistry C, 2015, 3, 10734-10741.	5.5	26
32	Selective recognition of Histidine enantiomers using novel molecularly imprinted organic transistor sensor. Organic Electronics, 2018, 61, 254-260.	2.6	25
33	Synthesis and characterization of thieno[3,4-c]pyrrole-4,6-dione and pyrrolo[3,4-c]pyrrole-1,4-dione-based random polymers for photovoltaic applications. Polymer, 2012, 53, 4407-4412.	3.8	24
34	Flexible and low-voltage organic phototransistors. RSC Advances, 2017, 7, 11572-11577.	3.6	23
35	Modulating charge transport characteristics of bis-azaisoindigo-based Dâ€“A conjugated polymers through energy level regulation and side chain optimization. Journal of Materials Chemistry C, 2019, 7, 7618-7626.	5.5	23
36	Side-Chain Engineering To Optimize the Charge Transport Properties of Isoindigo-Based Random Terpolymers for High-Performance Organic Field-Effect Transistors. Macromolecules, 2019, 52, 4765-4775.	4.8	23

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37	Enabling discrimination capability in an achiral F6BT-based organic semiconductor transistor via circularly polarized light induction. Journal of Materials Chemistry C, 2020, 8, 9271-9275.	5.5	22
38	Tuning the Energy Levels of Aza-Heterocycle-Based Polymers for Long-Term n-Channel Bottom-Gate/Top-Contact Polymer Transistors. Macromolecules, 2018, 51, 5704-5712.	4.8	20
39	Induction of circularly polarized electroluminescence from achiral poly(fluorene-alt-benzothiadiazole) by circularly polarized light. Journal of Materials Chemistry C, 2020, 8, 6521-6527.	5.5	20
40	Deep Ultraviolet Light Stimulated Synaptic Transistors Based on Poly(3-hexylthiophene) Ultrathin Films. ACS Applied Materials & Interfaces, 2022, 14, 11718-11726.	8.0	19
41	Air-Stable and High-Performance Unipolar n-Type Conjugated Semiconducting Polymers Prepared by a â€œStrong Acceptorâ€“Weak Donorâ€•Strategy. ACS Applied Materials & Interfaces, 2020, 12, 17790-17798.	8.0	18
42	Taming Charge Transport and Mechanical Properties of Conjugated Polymers with Linear Siloxane Side Chains. Macromolecules, 2021, 54, 5440-5450.	4.8	18
43	Bis(2-oxo-7-azaindolin-3-ylidene)benzodifuran-dione-based donorâ€“acceptor polymers for high-performance n-type field-effect transistors. Polymer Chemistry, 2017, 8, 2381-2389.	3.9	17
44	Light-Emitting Diodes with Manganese Halide Tetrahedron Embedded in Anti-Perovskites. ACS Energy Letters, 2021, 6, 1901-1911.	17.4	17
45	Side Chain Engineering: Achieving Stretch-Induced Molecular Orientation and Enhanced Mobility in Polymer Semiconductors. Chemistry of Materials, 2022, 34, 2696-2707.	6.7	17
46	Rational molecular design for isoindigo-based polymer semiconductors with high ductility and high electrical performance. Journal of Materials Chemistry C, 2019, 7, 11639-11649.	5.5	16
47	Linear hybrid siloxane-based side chains for highly soluble isoindigo-based conjugated polymers. Chemical Communications, 2020, 56, 11867-11870.	4.1	16
48	Benzodithiophenedione and diketopyrrolopyrrole based conjugated copolymers for organic thin-film transistors by structure modulation. Dyes and Pigments, 2016, 126, 20-28.	3.7	15
49	Mixed receptors of AMPA and NMDA emulated using a â€˜Polka Dotâ€™-structured two-dimensional conjugated polymer-based artificial synapse. Nanoscale Horizons, 2020, 5, 1324-1331.	8.0	14
50	Azaisoindigo-Based Polymers with a Linear Hybrid Siloxane-Based Side Chain for High-Performance Semiconductors Processable with Nonchlorinated Solvents. ACS Applied Materials & Interfaces, 2020, 12, 41832-41841.	8.0	14
51	Ultrathin semiconductor films for NH3 gas sensors prepared by vertical phase separation. Synthetic Metals, 2018, 244, 20-26.	3.9	12
52	High-efficiency synthesis of a naphthalene-diimide-based conjugated polymer using continuous flow technology for organic field-effect transistors. Journal of Materials Chemistry C, 2019, 7, 8450-8456.	5.5	12
53	Highly Sensitive Polymer Phototransistor Based on the Synergistic Effect of Chemical and Physical Blending in D (Donor)â€“A (Acceptor) Copolymers. Advanced Electronic Materials, 2019, 5, 1900174.	5.1	12
54	One-pot synthesized ABA tri-block copolymers for high-performance organic field-effect transistors. Polymer Chemistry, 2018, 9, 4517-4522.	3.9	11

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55	Improved charge transport in fused-ring bridged hemi-isoindigo-based small molecules by incorporating a thiophene unit for solution-processed organic field-effect transistors. Journal of Materials Chemistry C, 2020, 8, 1398-1404.	5.5	11
56	A Novel Multilevel Nonvolatile Solarâ€Blind Deep Ultraviolet Photoelectric Memory Based on an Organic Field Effect Transistor. Advanced Optical Materials, 2021, 9, 2002256.	7.3	11
57	Ultrathin Polythiophene Films Prepared by Vertical Phase Separation for Highly Stretchable Organic Fieldâ€Effect Transistors. Advanced Electronic Materials, 2021, 7, 2100591.	5.1	11
58	A regular ternary conjugated polymer bearing Ï€-extended diketopyrrole and isoindigo acceptor units for field-effect transistors and photothermal conversion. Dyes and Pigments, 2019, 164, 27-34.	3.7	10
59	Precisely Controlling the Structure of Ultrathin Semiconducting Films by a Laminating Method for High-Performance Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2019, 11, 48147-48154.	8.0	8
60	Aza-Based Donor-Acceptor Conjugated Polymer Nanoparticles for Near-Infrared Modulated Photothermal Conversion. Frontiers in Chemistry, 2019, 7, 359.	3.6	7
61	Aza-substitution on naphthalene diimide-based conjugated polymers for n-type bottom gate/top contact polymer transistors under ambient conditions. Journal of Materials Chemistry C, 2021, 9, 633-639.	5.5	7
62	An enzyme Biosensor Based on Organic Transistors for Recognizing Î±-Amino Acid Enantiomers. Journal of the Electrochemical Society, 2020, 167, 067517.	2.9	6
63	Diaza-substituted conjugated polymers based on naphthalene diimide for n-type field-effect transistors. Dyes and Pigments, 2021, 194, 109660.	3.7	6
64	Asymmetric Hybrid Siloxane Side Chains for Enhanced Mobility and Mechanical Properties of Diketopyrrolopyrroleâ€Based Polymers. Macromolecular Rapid Communications, 2022, 43, e2100636.	3.9	6
65	Solution-processed polarized light-emitting diodes. Journal of Materials Chemistry C, 2020, 8, 9147-9162.	5.5	5
66	FePc induced highly oriented PIID-BT conjugated polymer semiconductor with high bias-stress stability. Applied Physics Letters, 2018, 113, .	3.3	4
67	Solutionâ€Processed Ultrathin Semiconductor Films for Highâ€Performance Ammonia Sensors. Advanced Materials Interfaces, 2021, 8, 2100493.	3.7	4
68	Flexible and low-voltage phototransistor based on novel self-assembled phosphonic acids monolayers. Synthetic Metals, 2020, 269, 116563.	3.9	4
69	Role of Molecular Weight in the Mechanical Properties and Charge Transport of Conjugated Polymers Containing Siloxane Side Chains. Macromolecular Rapid Communications, 2022, , 2200149.	3.9	4
70	Bis(7-aza-2-oxoindolin-3-ylidene)dihydropyrroloindole-dione based Dâ€A conjugated polymers for electron and ambipolar organic thin film transistors. Dyes and Pigments, 2018, 159, 238-244.	3.7	3
71	One-step synthesis of an acceptorâ€“donorâ€“acceptor small molecule based on indacenodithieno[3,2-b]thiophene and benzothiadiazole units for high-performance solution-processed organic field-effect transistors. Journal of Materials Chemistry C, 2020, 8, 14180-14185.	5.5	3
72	Acceptorâ€“donorâ€“acceptor molecule processed using polar non-halogenated solvents for organic field-effect transistors. Journal of Materials Chemistry C, 2020, 8, 6496-6502.	5.5	2

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73	Acceptor-donor-acceptor small molecules based on fuse ring and 2-(2-oxindolin-3-ylidene)malononitrile derivatives for solution-processed n-type organic field-effect transistors. Synthetic Metals, 2019, 256, 116143.	3.9	1
74	Tensile properties of two-dimensional poly(3-hexyl thiophene) thin films as a function of thickness. Journal of Materials Chemistry C, 0, , .	5.5	1
75	Tuning of polymer-wall surface components and its effect on the optoelectronic performance of liquid crystal devices with polymer walls. Molecular Crystals and Liquid Crystals, 2022, 736, 93-102.	0.9	1
76	44.4: Invited Paper: Semiconducting Nanofibers Embedded in Insulating Polymer for Organic Thinâ€Film Transistors. Digest of Technical Papers SID International Symposium, 2009, 40, 664-665.	0.3	0
77	Small molecules based on strongly electron-deficient aza-isatinylidene malononitrile for solution-processed n-type field-effect transistors. Synthetic Metals, 2022, 287, 117071.	3.9	0