Long-Zhen Qiu

List of Publications by Year
in descending order

77 papers	2,411 citations	186265 28 h-index	214800 47 g-index
79 all docs	79 docs citations	79 times ranked	2803 citing authors

#	Article	IF	Citations
1	Asymmetric Hybrid Siloxane Side Chains for Enhanced Mobility and Mechanical Properties of Diketopyrrolopyrroleâ€Based Polymers. Macromolecular Rapid Communications, 2022, 43, e2100636.	3.9	6
2	Deep Ultraviolet Light Stimulated Synaptic Transistors Based on Poly(3-hexylthiophene) Ultrathin Films. ACS Applied Materials & Interfaces, 2022, 14, 11718-11726.	8.0	19
3	Side Chain Engineering: Achieving Stretch-Induced Molecular Orientation and Enhanced Mobility in Polymer Semiconductors. Chemistry of Materials, 2022, 34, 2696-2707.	6.7	17
4	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
5	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
6	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
7	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
8	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
9	Light-Emitting Diodes with Manganese Halide Tetrahedron Embedded in Anti-Perovskites. ACS Energy Letters, 2021, 6, 1901-1911.	17.4	17
10	Taming Charge Transport and Mechanical Properties of Conjugated Polymers with Linear Siloxane Side Chains. Macromolecules, 2021, 54, 5440-5450.	4.8	18
11	Ultrathin Polythiophene Films Prepared by Vertical Phase Separation for Highly Stretchable Organic Fieldâ€Effect Transistors. Advanced Electronic Materials, 2021, 7, 2100591.	5.1	11
12	Circularly Polarized Photodetectors Based on Chiral Materials: A Review. Frontiers in Chemistry, 2021, 9, 711488.	3.6	42
13	Intrinsically Stretchable <i>n</i>-Type Polymer Semiconductors through Side Chain Engineering. Macromolecules, 2021, 54, 8849-8859.	4.8	27
14	Solutionâ€Processed Ultrathin Semiconductor Films for Highâ€Performance Ammonia Sensors. Advanced Materials Interfaces, 2021, 8, 2100493.	3.7	4
15	Diaza-substituted conjugated polymers based on naphthalene diimide for n-type field-effect transistors. Dyes and Pigments, 2021, 194, 109660.	3.7	6
16	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
17	Ultrathin Polymer Nanofibrils for Solar-Blind Deep Ultraviolet Light Photodetectors Application. Nano Letters, 2020, 20, 644-651.	9.1	38
18	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

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19	Linear hybrid siloxane-based side chains for highly soluble isoindigo-based conjugated polymers. Chemical Communications, 2020, 56, 11867-11870.	4.1	16
20	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
21	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
22	Solution-processed polarized light-emitting diodes. Journal of Materials Chemistry C, 2020, 8, 9147-9162.	5.5	5
23	Enabling discrimination capability in an achiral F6BT-based organic semiconductor transistor <i>via</i> circularly polarized light induction. Journal of Materials Chemistry C, 2020, 8, 9271-9275.	5.5	22
24	Induction of circularly polarized electroluminescence from achiral poly(fluorene-<i>alt</i>-benzothiadiazole) by circularly polarized light. Journal of Materials Chemistry C, 2020, 8, 6521-6527.	5.5	20
25	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
26	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
27	An enzyme Biosensor Based on Organic Transistors for Recognizing <i>Î±</i>-Amino Acid Enantiomers. Journal of the Electrochemical Society, 2020, 167, 067517.	2.9	6
28	Flexible and low-voltage phototransistor based on novel self-assembled phosphonic acids monolayers. Synthetic Metals, 2020, 269, 116563.	3.9	4
29	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
30	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
31	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
32	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
33	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
34	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
35	Aza-Based Donor-Acceptor Conjugated Polymer Nanoparticles for Near-Infrared Modulated Photothermal Conversion. Frontiers in Chemistry, 2019, 7, 359.	3.6	7
36	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

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37	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
38	Sb₂S₃ solar cells: functional layer preparation and device performance. Inorganic Chemistry Frontiers, 2019, 6, 3381-3397.	6.0	33
39	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
40	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
41	Chirality detection of amino acid enantiomers by organic electrochemical transistor. Biosensors and Bioelectronics, 2018, 105, 121-128.	10.1	73
42	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
43	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
44	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
45	FePc induced highly oriented PIID-BT conjugated polymer semiconductor with high bias-stress stability. Applied Physics Letters, 2018, 113, .	3.3	4
46	Ultrathin semiconductor films for NH3 gas sensors prepared by vertical phase separation. Synthetic Metals, 2018, 244, 20-26.	3.9	12
47	Bis(7-aza-2-oxoindolin-3-ylidene)dihydropyrroloindole-dione based Dâˆ’A conjugated polymers for electron and ambipolar organic thin film transistors. Dyes and Pigments, 2018, 159, 238-244.	3.7	3
48	Incorporation of Heteroatoms in Conjugated Polymers Backbone toward Air-Stable, High-Performance <i>n</i>-Channel Unencapsulated Polymer Transistors. Chemistry of Materials, 2018, 30, 5451-5459.	6.7	55
49	Tuning the Energy Levels of Aza-Heterocycle-Based Polymers for Long-Term <i>n</i>-Channel Bottom-Gate/Top-Contact Polymer Transistors. Macromolecules, 2018, 51, 5704-5712.	4.8	20
50	One-pot synthesized ABA tri-block copolymers for high-performance organic field-effect transistors. Polymer Chemistry, 2018, 9, 4517-4522.	3.9	11
51	Selective recognition of Histidine enantiomers using novel molecularly imprinted organic transistor sensor. Organic Electronics, 2018, 61, 254-260.	2.6	25
52	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
53	Helical Nanofibrils of Block Copolymer for High-Performance Ammonia Sensors. ACS Applied Materials & Interfaces, 2018, 10, 22504-22512.	8.0	30
54	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

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55	Flexible and low-voltage organic phototransistors. RSC Advances, 2017, 7, 11572-11577.	3.6	23
56	Organic Field-Effect Transistors with Macroporous Semiconductor Films as High-Performance Humidity Sensors. ACS Applied Materials & Interfaces, 2017, 9, 14974-14982.	8.0	62
57	Facile green synthesis of isoindigo-based conjugated polymers using aldol polycondensation. Polymer Chemistry, 2017, 8, 3448-3456.	3.9	38
58	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
59	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
60	Solutionâ€Processed Microporous Semiconductor Films for Highâ€Performance Chemical Sensors. Advanced Materials Interfaces, 2016, 3, 1600518.	3.7	47
61	Benzodithiophenedione and diketopyrrolopyrrole based conjugated copolymers for organic thin-film transistors by structure modulation. Dyes and Pigments, 2016, 126, 20-28.	3.7	15
62	Enhanced near-infrared photoresponse of organic phototransistors based on single-component donorâ€“acceptor conjugated polymer nanowires. Nanoscale, 2016, 8, 7738-7748.	5.6	65
63	An ABA triblock copolymer strategy for intrinsically stretchable semiconductors. Journal of Materials Chemistry C, 2015, 3, 3599-3606.	5.5	93
64	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
65	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
66	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
67	A bis(2-oxoindolin-3-ylidene)-benzodifuran-dione containing copolymer for high-mobility ambipolar transistors. Chemical Communications, 2014, 50, 3180.	4.1	72
68	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
69	Oneâ€pot synthesis of conjugated poly(3â€hexylthiophene)â€<i>b</i>â€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
70	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
71	Polymer blends with semiconducting nanowires for organic electronics. Journal of Materials Chemistry, 2012, 22, 4244.	6.7	66
72	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

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73	Inkjetâ€Printed Singleâ€Droplet Organic Transistors Based on Semiconductor Nanowires Embedded in Insulating Polymers. Advanced Functional Materials, 2010, 20, 3292-3297.	14.9	100
74	Organic Thinâ€film Transistors Based on Polythiophene Nanowires Embedded in Insulating Polymer. Advanced Materials, 2009, 21, 1349-1353.	21.0	214
75	44.4: <i>Invited Paper</i>: 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
76	Versatile Use of Verticalâ€Phaseâ€Separationâ€Induced Bilayer Structures in Organic Thinâ€Film Transistors. Advanced Materials, 2008, 20, 1141-1145.	21.0	209
77	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