Yunlong guo

List of Publications by Year
in descending order

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193 papers	15,290 citations	15495 65 h-index	19169 118 g-index
202 all docs	202 docs citations	202 times ranked	17260 citing authors

#	Article	IF	Citations
1	A stable solution-processed polymer semiconductor with record high-mobility for printed transistors. Scientific Reports, 2012, 2, 754.	1.6	800
2	Highly Ï€â€Extended Copolymers with Diketopyrrolopyrrole Moieties for Highâ€Performance Fieldâ€Effect Transistors. Advanced Materials, 2012, 24, 4618-4622.	11.1	707
3	25th Anniversary Article: Recent Advances in nâ€Type and Ambipolar Organic Fieldâ€Effect Transistors. Advanced Materials, 2013, 25, 5372-5391.	11.1	608
4	Functional Organic Fieldâ€Effect Transistors. Advanced Materials, 2010, 22, 4427-4447.	11.1	526
5	Uniform hexagonal graphene flakes and films grown on liquid copper surface. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7992-7996.	3.3	417
6	One-Pot Self-Assembled Three-Dimensional TiO₂-Graphene Hydrogel with Improved Adsorption Capacities and Photocatalytic and Electrochemical Activities. ACS Applied Materials & Interfaces, 2013, 5, 2227-2233.	4.0	383
7	Patterned Graphene as Source/Drain Electrodes for Bottomâ€Contact Organic Fieldâ€Effect Transistors. Advanced Materials, 2008, 20, 3289-3293.	11.1	373
8	Oxygen-Aided Synthesis of Polycrystalline Graphene on Silicon Dioxide Substrates. Journal of the American Chemical Society, 2011, 133, 17548-17551.	6.6	315
9	Insight into High-Performance Conjugated Polymers for Organic Field-Effect Transistors. CheM, 2018, 4, 2748-2785.	5.8	313
10	A Ferroelectric/Electrochemical Modulated Organic Synapse for Ultraflexible, Artificial Visualâ€Perception System. Advanced Materials, 2018, 30, e1803961.	11.1	292
11	Low Temperature Growth of Highly Nitrogen-Doped Single Crystal Graphene Arrays by Chemical Vapor Deposition. Journal of the American Chemical Society, 2012, 134, 11060-11063.	6.6	287
12	Diketopyrrolopyrrole-Containing Quinoidal Small Molecules for High-Performance, Air-Stable, and Solution-Processable n-Channel Organic Field-Effect Transistors. Journal of the American Chemical Society, 2012, 134, 4084-4087.	6.6	280
13	Air-Stable and Solution-Processable Perovskite Photodetectors for Solar-Blind UV and Visible Light. Journal of Physical Chemistry Letters, 2015, 6, 535-539.	2.1	265
14	Experimental Techniques for the Fabrication and Characterization of Organic Thin Films for Field-Effect Transistors. Chemical Reviews, 2011, 111, 3358-3406.	23.0	241
15	Chemical Pathways Connecting Lead(II) Iodide and Perovskite via Polymeric Plumbate(II) Fiber. Journal of the American Chemical Society, 2015, 137, 15907-15914.	6.6	223
16	Advances in flexible organic field-effect transistors and their applications for flexible electronics. Npj Flexible Electronics, 2022, 6, .	5.1	194
17	Exploration of Near-Infrared Organic Photodetectors. Chemistry of Materials, 2019, 31, 6359-6379.	3.2	189
18	Highâ€Performance, Airâ€Stable Fieldâ€Effect Transistors Based on Heteroatomâ€Substituted Naphthalenediimideâ€Benzothiadiazole Copolymers Exhibiting Ultrahigh Electron Mobility up to 8.5 cm V^{â^'1} s^{â^'1}. Advanced Materials, 2017, 29, 1602410.	11.1	187

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19	Single-Walled Carbon Nanotube Film as Electrode in Indium-Free Planar Heterojunction Perovskite Solar Cells: Investigation of Electron-Blocking Layers and Dopants. Nano Letters, 2015, 15, 6665-6671.	4.5	179
20	Multibit Storage of Organic Thinâ€Film Fieldâ€Effect Transistors. Advanced Materials, 2009, 21, 1954-1959.	11.1	178
21	Equiangular Hexagonâ€Shapeâ€Controlled Synthesis of Graphene on Copper Surface. Advanced Materials, 2011, 23, 3522-3525.	11.1	173
22	Allâ€Solutionâ€Processed, Highâ€Performance nâ€Channel Organic Transistors and Circuits: Toward Lowâ€Cost Ambient Electronics. Advanced Materials, 2011, 23, 2448-2453.	11.1	172
23	Polymer Stabilization of Lead(II) Perovskite Cubic Nanocrystals for Semitransparent Solar Cells. Advanced Energy Materials, 2016, 6, 1502317.	10.2	168
24	Enhancement in the efficiency of an organicâ€“inorganic hybrid solar cell with a doped P3HT hole-transporting layer on a void-free perovskite active layer. Journal of Materials Chemistry A, 2014, 2, 13827-13830.	5.2	163
25	Inkjet Printing Highâ€Resolution, Largeâ€Area Graphene Patterns by Coffeeâ€Ring Lithography. Advanced Materials, 2012, 24, 436-440.	11.1	154
26	Self-organized graphene crystal patterns. NPG Asia Materials, 2013, 5, e36-e36.	3.8	153
27	Reduction of graphene oxide to highly conductive graphene by Lawesson's reagent and its electrical applications. Journal of Materials Chemistry C, 2013, 1, 3104.	2.7	150
28	Porphyrinâ^'Dithienothiophene Ï€-Conjugated Copolymers: Synthesis and Their Applications in Field-Effect Transistors and Solar Cells. Macromolecules, 2008, 41, 6895-6902.	2.2	144
29	Fractal Etching of Graphene. Journal of the American Chemical Society, 2013, 135, 6431-6434.	6.6	140
30	When Flexible Organic Fieldâ€Effect Transistors Meet Biomimetics: A Prospective View of the Internet of Things. Advanced Materials, 2020, 32, e1901493.	11.1	136
31	Graphene-coated silica as a highly efficient sorbent for residual organophosphorus pesticides in water. Journal of Materials Chemistry A, 2013, 1, 1875-1884.	5.2	133
32	Nearâ€Equilibrium Chemical Vapor Deposition of Highâ€Quality Singleâ€Crystal Graphene Directly on Various Dielectric Substrates. Advanced Materials, 2014, 26, 1348-1353.	11.1	132
33	Production of Graphite Chloride and Bromide Using Microwave Sparks. Scientific Reports, 2012, 2, 662.	1.6	125
34	Synthesis of large-area, few-layer graphene on iron foil by chemical vapor deposition. Nano Research, 2011, 4, 1208-1214.	5.8	120
35	Highâ€Performance Phototransistors Based on Organic Microribbons Prepared by a Solution Selfâ€Assembly Process. Advanced Functional Materials, 2010, 20, 1019-1024.	7.8	119
36	Naphthalenediimide-Based Copolymers Incorporating Vinyl-Linkages for High-Performance Ambipolar Field-Effect Transistors and Complementary-Like Inverters under Air. Chemistry of Materials, 2013, 25, 3589-3596.	3.2	119

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37	Isoindigoâ€Based Polymers with Small Effective Masses for Highâ€Mobility Ambipolar Fieldâ€Effect Transistors. Advanced Materials, 2017, 29, 1702115.	11.1	115
38	Regioregular Bis-Pyridal[2,1,3]thiadiazole-Based Semiconducting Polymer for High-Performance Ambipolar Transistors. Journal of the American Chemical Society, 2017, 139, 17735-17738.	6.6	115
39	Twoâ€Stage Metalâ€Catalystâ€Free Growth of Highâ€Quality Polycrystalline Graphene Films on Silicon Nitride Substrates. Advanced Materials, 2013, 25, 992-997.	11.1	112
40	Local Time-Dependent Charging in a Perovskite Solar Cell. ACS Applied Materials & Interfaces, 2016, 8, 19402-19409.	4.0	109
41	Flexible, Lowâ€Voltage and Highâ€Performance Polymer Thinâ€Film Transistors and Their Application in Photo/Thermal Detectors. Advanced Materials, 2014, 26, 3631-3636.	11.1	107
42	Substrateâ€Free Ultraâ€Flexible Organic Fieldâ€Effect Transistors and Fiveâ€Stage Ring Oscillators. Advanced Materials, 2013, 25, 5455-5460.	11.1	106
43	Design and effective synthesis methods for high-performance polymer semiconductors in organic field-effect transistors. Materials Chemistry Frontiers, 2017, 1, 2423-2456.	3.2	106
44	Production of Highâ€Quality Carbon Nanoscrolls with Microwave Spark Assistance in Liquid Nitrogen. Advanced Materials, 2011, 23, 2460-2463.	11.1	104
45	Asymmetrical Small Molecule Acceptor Enabling Nonfullerene Polymer Solar Cell with Fill Factor Approaching 79%. ACS Energy Letters, 2018, 3, 1760-1768.	8.8	102
46	Low bandgap Ï€â€conjugated copolymers based on fused thiophenes and benzothiadiazole: Synthesis and structureâ€property relationship study. Journal of Polymer Science Part A, 2009, 47, 5498-5508.	2.5	100
47	Bisâ€Diketopyrrolopyrrole Moiety as a Promising Building Block to Enable Balanced Ambipolar Polymers for Flexible Transistors. Advanced Materials, 2017, 29, 1606162.	11.1	99
48	A Retinaâ€Like Dual Band Organic Photosensor Array for Filterâ€Free Nearâ€Infraredâ€toâ€Memory Operations. Advanced Materials, 2017, 29, 1701772.	11.1	95
49	Electrical Assembly and Reduction of Graphene Oxide in a Single Solution Step for Use in Flexible Sensors. Advanced Materials, 2011, 23, 4626-4630.	11.1	93
50	Large-area, flexible imaging arrays constructed by light-charge organic memories. Scientific Reports, 2013, 3, 1080.	1.6	92
51	Highâ€Performance Organic Fieldâ€Effect Transistors with Lowâ€Cost Copper Electrodes. Advanced Materials, 2008, 20, 1286-1290.	11.1	91
52	Improvements in Stability and Performance of N,Nâ€²â€Dialkyl Perylene Diimideâ€Based nâ€Type Thinâ€Film Transistors. Advanced Materials, 2009, 21, 1631-1635.	11.1	90
53	Controllable Chemical Vapor Deposition Growth of Few Layer Graphene for Electronic Devices. Accounts of Chemical Research, 2013, 46, 106-115.	7.6	88
54	Sulfamic Acid-Catalyzed Lead Perovskite Formation for Solar Cell Fabrication on Glass or Plastic Substrates. Journal of the American Chemical Society, 2016, 138, 5410-5416.	6.6	86

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55	Diketopyrrolopyrrole-Based Ï€-Conjugated Copolymer Containing Î²-Unsubstituted Quintetthiophene Unit: A Promising Material Exhibiting High Hole-Mobility for Organic Thin-Film Transistors. Chemistry of Materials, 2012, 24, 4350-4356.	3.2	85
56	Inkjet Printing Shortâ€Channel Polymer Transistors with Highâ€Performance and Ultrahigh Photoresponsivity. Advanced Materials, 2014, 26, 4683-4689.	11.1	82
57	Highâ€Performance Organic Transistor Memory Elements with Steep Flanks of Hysteresis. Advanced Functional Materials, 2008, 18, 2593-2601.	7.8	81
58	New Donorâ€“Acceptorâ€“Donor Molecules with Pechmann Dye as the Core Moiety for Solution-Processed Good-Performance Organic Field-Effect Transistors. Chemistry of Materials, 2013, 25, 471-478.	3.2	81
59	Active Morphology Control for Concomitant Long Distance Spin Transport and Photoresponse in a Single Organic Device. Advanced Materials, 2016, 28, 2609-2615.	11.1	77
60	Citric Acid Modulated Growth of Oriented Lead Perovskite Crystals for Efficient Solar Cells. Journal of the American Chemical Society, 2017, 139, 9598-9604.	6.6	77
61	Ultrasensitive and selective sensing of heavy metal ions with modified graphene. Chemical Communications, 2013, 49, 6492.	2.2	76
62	Investigation of Electrode Electrochemical Reactions in CH₃NH₃PbBr₃ Perovskite Singleâ€Crystal Fieldâ€Effect Transistors. Advanced Materials, 2019, 31, e1902618.	11.1	74
63	Design and synthesis of high performance Ï€-conjugated materials through antiaromaticity and quinoid strategy for organic field-effect transistors. Materials Science and Engineering Reports, 2019, 136, 13-26.	14.8	72
64	Fast Deposition of Aligning Edgeâ€On Polymers for Highâ€Mobility Ambipolar Transistors. Advanced Materials, 2019, 31, e1805761.	11.1	70
65	New tetrathiafulvalene fused-naphthalene diimides for solution-processible and air-stable p-type and ambipolar organic semiconductors. Chemical Science, 2012, 3, 2530.	3.7	67
66	A Flexible Acetylcholinesterase-Modified Graphene for Chiral Pesticide Sensor. Journal of the American Chemical Society, 2019, 141, 14643-14649.	6.6	67
67	Dualâ€Mode Learning of Ambipolar Synaptic Phototransistor Based on 2D Perovskite/Organic Heterojunction for Flexible Color Recognizable Visual System. Small, 2021, 17, e2102820.	5.2	66
68	Anthra[2,3-b]benzo[d]thiophene: An Air-Stable Asymmetric Organic Semiconductor with High Mobility at Room Temperature. Chemistry of Materials, 2008, 20, 4188-4190.	3.2	65
69	Design, Synthesis, and Properties of Asymmetrical Heteroacene and Its Application in Organic Electronics. Journal of Physical Chemistry C, 2010, 114, 10565-10571.	1.5	64
70	High quality graphene with large flakes exfoliated by oleyl amine. Chemical Communications, 2010, 46, 5728.	2.2	63
71	General Route toward Patterning of Graphene Oxide by a Combination of Wettability Modulation and Spin-Coating. ACS Nano, 2010, 4, 5749-5754.	7.3	62
72	An expedient synthesis of fused heteroacenes bearing a pyrrolo[3,2-b]pyrrole core. Chemical Communications, 2012, 48, 12225.	2.2	62

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73	Trifluoromethyltriphenodioxazine: Air-Stable and High-Performance n-Type Semiconductor. Organic Letters, 2008, 10, 3025-3028.	2.4	61
74	Chemical Formation and Multiple Applications of Organicâ€“Inorganic Hybrid Perovskite Materials. Journal of the American Chemical Society, 2019, 141, 1406-1414.	6.6	61
75	Interfacial Heterogeneity of Surface Energy in Organic Fieldâ€Effect Transistors. Advanced Materials, 2011, 23, 1009-1014.	11.1	60
76	Singleâ€Crystal Microribbons of an Indolo[3,2â€b]carbazole Derivative by Solutionâ€Phase Selfâ€Assembly with Novel Mechanical, Electrical, and Optical Properties. Advanced Materials, 2008, 20, 4835-4839.	11.1	58
77	Constructing Stable Chromenoquinoline-Based Covalent Organic Frameworks via Intramolecular Povarov Reaction. Journal of the American Chemical Society, 2022, 144, 2488-2494.	6.6	57
78	Morphology Optimization for the Fabrication of High Mobility Thinâ€Film Transistors. Advanced Materials, 2011, 23, 3128-3133.	11.1	55
79	A New Carbazoleâ€Constructed Hyperbranched Polymer: Convenient Oneâ€Pot Synthesis, Holeâ€Transporting Ability, and Fieldâ€Effect Transistor Properties. Advanced Functional Materials, 2009, 19, 2677-2683.	7.8	54
80	Solventâ€Assisted Reâ€annealing of Polymer Films for Solutionâ€Processable Organic Fieldâ€Effect Transistors. Advanced Materials, 2010, 22, 1273-1277.	11.1	54
81	One-Pot Microbial Method to Synthesize Dual-Doped Graphene and Its Use as High-Performance Electrocatalyst. Scientific Reports, 2013, 3, 3499.	1.6	53
82	Acceptor Modulation Strategies for Improving the Electron Transport in Highâ€Performance Organic Fieldâ€Effect Transistors. Advanced Materials, 2022, 34, e2104325.	11.1	53
83	Synthesis and properties of the anti and syn isomers of dibenzothieno[b,d]pyrrole. Chemical Communications, 2008, , 6227.	2.2	52
84	Dibenzoannelated Tetrathienoacene: Synthesis, Characterization, and Applications in Organic Field-Effect Transistors. Organic Letters, 2012, 14, 3300-3303.	2.4	52
85	Novel Functionalized Conjugated Polythiophene with Oxetane Substituents: Synthesis, Optical, Electrochemical, and Field-Effect Properties. Macromolecules, 2009, 42, 3222-3226.	2.2	51
86	A diketopyrrolopyrroleâ€“thiazolothiazole copolymer for high performance organic field-effect transistors. Chemical Communications, 2013, 49, 1998.	2.2	49
87	Gramâ€Scale Synthesis of Graphene Sheets by a Catalytic Arcâ€Discharge Method. Small, 2013, 9, 1330-1335.	5.2	49
88	Field dependent and high light sensitive organic phototransistors based on linear asymmetric organic semiconductor. Applied Physics Letters, 2009, 94, 143303.	1.5	48
89	Dithiazole-fused naphthalene diimides toward new n-type semiconductors. Journal of Materials Chemistry C, 2013, 1, 1087-1092.	2.7	48
90	Extended Ï€-Conjugated Molecules Derived from Naphthalene Diimides toward Organic Emissive and Semiconducting Materials. Journal of Organic Chemistry, 2013, 78, 2926-2934.	1.7	48

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91	Topâ€Gate Organic Thinâ€Film Transistors Constructed by a General Lamination Approach. Advanced Materials, 2010, 22, 3537-3541.	11.1	47
92	Selfâ€Aligned Singleâ€Crystal Graphene Grains. Advanced Functional Materials, 2014, 24, 1664-1670.	7.8	47
93	Highâ€Mobility Organic Lightâ€Emitting Semiconductors and Its Optoelectronic Devices. Small Structures, 2021, 2, 2000083.	6.9	47
94	n-Type doping for efficient polymeric electron-transporting layers in perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 18852-18856.	5.2	44
95	Solution-Processed Organic Field-Effect Transistors Based on Polythiophene Derivatives with Conjugated Bridges as Linking Chains. Chemistry of Materials, 2007, 19, 3361-3363.	3.2	42
96	Efficient modification of Cu electrode with nanometer-sized copper tetracyanoquinodimethane for high performance organic field-effect transistors. Physical Chemistry Chemical Physics, 2008, 10, 2302.	1.3	40
97	Fluorographene nanosheets with broad solvent dispersibility and their applications as a modified layer in organic field-effect transistors. Physical Chemistry Chemical Physics, 2013, 15, 20992.	1.3	40
98	Application of organic field-effect transistors in memory. Materials Chemistry Frontiers, 2020, 4, 2845-2862.	3.2	40
99	Intrinsically flexible displays: key materials and devices. National Science Review, 2022, 9, .	4.6	40
100	New air-stable solution-processed organic n-type semiconductors based on sulfur-rich core-expanded naphthalene diimides. Journal of Materials Chemistry, 2011, 21, 18042.	6.7	39
101	Engineering of Amorphous Polymeric Insulators for Organic Fieldâ€Effect Transistors. Advanced Electronic Materials, 2017, 3, 1700157.	2.6	38
102	Low Band Gap Donorâ€“Acceptor Conjugated Polymers with Indanone-Condensed Thiadiazolo[3,4-g]quinoxaline Acceptors. Macromolecules, 2019, 52, 6149-6159.	2.2	38
103	Ultralowâ€Power and Multisensory Artificial Synapse Based on Electrolyteâ€Gated Vertical Organic Transistors. Advanced Functional Materials, 2022, 32, .	7.8	38
104	Synthesis, self-assembly, and solution-processed nanoribbon field-effect transistor of a fused-nine-ring thienoacene. Chemical Communications, 2010, 46, 2841.	2.2	35
105	Effect of dielectric layers on device stability of pentacene-based field-effect transistors. Physical Chemistry Chemical Physics, 2009, 11, 7268.	1.3	34
106	Three-Dimensionally Homoconjugated Carbon-Bridged Oligophenylenevinylene for Perovskite Solar Cells. Journal of the American Chemical Society, 2016, 138, 10897-10904.	6.6	34
107	Ultrahighâ€Performance Optoelectronic Skin Based on Intrinsically Stretchable Perovskiteâ€Polymer Heterojunction Transistors. Advanced Materials, 2022, 34, e2107304.	11.1	34
108	Alignment of linear polymeric grains for highly stable N-type thin-film transistors. CheM, 2021, 7, 1258-1270.	5.8	33

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109	Fused-seven-ring anthracene derivative with two sulfur bridges for high performance red organic light-emitting diodes. Chemical Communications, 2010, 46, 8573.	2.2	32
110	Triple Acceptors in a Polymeric Architecture for Balanced Ambipolar Transistors and Highâ€Gain Inverters. Advanced Materials, 2018, 30, e1801951.	11.1	32
111	Improving the Electronic Transporting Property for Flexible Field-Effect Transistors with Naphthalene Diimide-Based Conjugated Polymer through Branching/Linear Side-Chain Engineering Strategy. ACS Applied Materials & Interfaces, 2019, 11, 15837-15844.	4.0	32
112	Lowering programmed voltage of organic memory transistors based on polymer gate electrets through heterojunction fabrication. Organic Electronics, 2012, 13, 1969-1974.	1.4	31
113	Multilayer Grapheneâ€Coated Atomic Force Microscopy Tips for Molecular Junctions. Advanced Materials, 2012, 24, 3482-3485.	11.1	31
114	Synthesis and Characterization of Novel Semiconductors Based on Thieno[3,2-b][1]benzothiophene Cores and Their Applications in the Organic Thin-Film Transistors. Journal of Physical Chemistry C, 2011, 115, 23984-23991.	1.5	30
115	Solution-processed core-extended naphthalene diimides toward organic n-type and ambipolar semiconductors. Journal of Materials Chemistry C, 2013, 1, 2688.	2.7	29
116	â€œRegioselective Depositionâ€•Method to Pattern Silver Electrodes Facilely and Efficiently with High Resolution: Towards Allâ€Solutionâ€Processed, Highâ€Performance, Bottomâ€Contacted, Flexible, Polymerâ€Based Electronics. Advanced Functional Materials, 2014, 24, 3783-3789.	7.8	29
117	Highâ€Performance Ambipolar Polymers Based on Electronâ€Withdrawing Group Substituted Bayâ€Annulated Indigo. Advanced Functional Materials, 2019, 29, 1804839.	7.8	29
118	Synthesis, Structures, and Properties of Thieno[3,2-b]thiophene and Dithiophene Bridged Isoindigo Derivatives and Their Organic Field-effect Transistors Performance. Journal of Physical Chemistry C, 2012, 116, 22655-22662.	1.5	28
119	Asymmetrical Fluorene[2,3â€b]benzo[d]thiophene Derivatives: Synthesis, Solidâ€State Structures, and Application in Solutionâ€Processable Organic Lightâ€Emitting Diodes. Chemistry - A European Journal, 2009, 15, 8275-8282.	1.7	27
120	Copolymers of Bis-Diketopyrrolopyrrole and Benzothiadiazole Derivatives for High-Performance Ambipolar Field-Effect Transistors on Flexible Substrates. ACS Applied Materials & Interfaces, 2018, 10, 25858-25865.	4.0	27
121	Perovskite photodetectors and their application in artificial photonic synapses. Chemical Communications, 2021, 57, 11429-11442.	2.2	27
122	Design of All-Fused-Ring Nonfullerene Acceptor for Highly Sensitive Self-Powered Near-Infrared Organic Photodetectors. , 2022, 4, 882-890.		27
123	Phenanthro[1,10,9,8-cdefg]carbazole-containing copolymer for high performance thin-film transistors and polymer solar cells. Journal of Materials Chemistry, 2012, 22, 3696.	6.7	26
124	Dicyanovinyl Heterotetracenes: Synthesis, Solid-State Structures, and Photophysical Properties. Journal of Organic Chemistry, 2009, 74, 7322-7327.	1.7	25
125	NIR polymers and phototransistors. Journal of Materials Chemistry C, 2018, 6, 13049-13058.	2.7	25
126	Acid-Responsive Conductive Nanofiber of Tetrabenzoporphyrin Made by Solution Processing. Journal of the American Chemical Society, 2018, 140, 62-65.	6.6	24

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127	Organostannane-free polycondensation and eco-friendly processing strategy for the design of semiconducting polymers in transistors. Materials Horizons, 2020, 7, 1955-1970.	6.4	24
128	High-performance near-infrared polymeric phototransistors realized by combining cross-linked polymeric semiconductors and bulk heterojunction bilayer structures. Applied Materials Today, 2021, 22, 100899.	2.3	24
129	Tuning the threshold voltage by inserting a thin molybdenum oxide layer into organic field-effect transistors. Applied Physics Letters, 2007, 91, .	1.5	23
130	A simple nickel bis(dithiolene) complex as an excellent n-type molecular semiconductor for field-effect transistors. Chemical Communications, 2012, 48, 9965.	2.2	23
131	Tuning the light response of organic field-effect transistors using fluorographene nanosheets as an interface modification layer. Journal of Materials Chemistry C, 2014, 2, 6484.	2.7	22
132	Flexible Monolayer Molecular Crystalâ€Field Effect Transistors for Ultrasensitive and Selective Detection of Dimethoate. Advanced Electronic Materials, 2020, 6, 2000579.	2.6	22
133	Organic Fieldâ€Effect Transistors with a Low Pinchâ€Off Voltage and a Controllable Threshold Voltage. Advanced Materials, 2008, 20, 611-615.	11.1	21
134	Undoped, red organic light-emitting diodes based on a N,N,Nâ€™,Nâ€™-tetraphenylbenzidine (TPD) derivative as red emitter with a triphenylamine derivative as hole-transporting layer. Dyes and Pigments, 2010, 84, 203-207.	2.0	21
135	Novel benzo[c][1,2,5]oxadiazole-naphthalenediimide based copolymer for high-performance air-stable n-type field-effect transistors exhibiting high electron mobility of 2.43 cm² V^{â^'1} s^{â^'1â€‰}. Journal of Materials Chemistry C, 2017, 5, 2892-2898.	2.7	21
136	Catalytic Synthesis and Structural Characterizations of a Highly Crystalline Polyphenylacetylene Nanobelt Array. Journal of the American Chemical Society, 2007, 129, 12922-12923.	6.6	19
137	Perylene diimide copolymers with dithienothiophene and dithienopyrrole: Use in nâ€channel and ambipolar fieldâ€effect transistors. Journal of Polymer Science Part A, 2013, 51, 1550-1558.	2.5	19
138	Mobility of Long-Lived Fullerene Radical in Solid State and Nonlinear Temperature Dependence. Journal of the American Chemical Society, 2014, 136, 3366-3369.	6.6	19
139	Room-Temperature, Solution-Processed SiO_x via Photochemistry Approach for Highly Flexible Resistive Switching Memory. ACS Applied Materials & Interfaces, 2020, 12, 56186-56194.	4.0	19
140	A Selfâ€Assembled 3D Penetrating Nanonetwork for Highâ€Performance Intrinsically Stretchable Polymer Lightâ€Emitting Diodes. Advanced Materials, 2022, 34, e2201844.	11.1	19
141	High-mobility, air stable bottom-contact n-channel thin film transistors based on N,Nâ€²-ditridecyl perylene diimide. Applied Physics Letters, 2013, 103, .	1.5	18
142	Synthesis and characterization of phenanthrocarbazoleâ€“diketopyrrolopyrrole copolymer for highâ€performance fieldâ€effect transistors. Journal of Polymer Science Part A, 2013, 51, 2208-2215.	2.5	18
143	Highly Sensitive Fieldâ€Effect Ammonia/Amine Sensors with Low Driving Voltage Based on Low Bandgap Polymers. Advanced Electronic Materials, 2018, 4, 1800025.	2.6	18
144	Recent progress in stretchable organic field-effect transistors. Science China Technological Sciences, 2019, 62, 1255-1276.	2.0	18

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145	Methoxylation of quinoidal bithiophene as a single regioisomer building block for narrow-bandgap conjugated polymers and high-performance organic field-effect transistors. Journal of Materials Chemistry C, 2020, 8, 15168-15174.	2.7	18
146	Synthesis, Self-Assembly and Solution-Processed Field-Effect Transistors of a Liquid Crystalline Bis(dithienothiophene) Derivative. Journal of Physical Chemistry C, 2009, 113, 16232-16237.	1.5	17
147	Production of graphene nanospheres by annealing of graphene oxide in solution. Nano Research, 2011, 4, 705-711.	5.8	17
148	Ultrahigh density modulation of aligned single-walled carbon nanotube arrays. Nano Research, 2011, 4, 931-937.	5.8	17
149	Selective Crystallization of Organic Semiconductors for High Performance Organic Field-Effect Transistors. Chemistry of Materials, 2009, 21, 4873-4879.	3.2	16
150	Controllable fabrication of ultrathin free-standing graphene films. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130017.	1.6	16
151	Highâ€performance fieldâ€effect transistors based on furanâ€containing diketopyrrolopyrrole copolymer under a mild annealing temperature. Journal of Polymer Science Part A, 2014, 52, 1970-1977.	2.5	16
152	Effects of water on the forward and backward conversions of lead(<scp>ii</scp>) iodide to methylammonium lead perovskite. Journal of Materials Chemistry A, 2017, 5, 23815-23821.	5.2	15
153	Aldol Polymerization to Construct Half-Fused Semiconducting Polymers. Macromolecules, 2021, 54, 10312-10320.	2.2	15
154	A thriving decade: rational design, green synthesis, and cutting-edge applications of isoindigo-based conjugated polymers in organic field-effect transistors. Science China Chemistry, 2022, 65, 1225-1264.	4.2	15
155	Effect of substituents on electronic properties, thin film structure and device performance of dithienothiopheneâ€“phenylene cooligomers. Thin Solid Films, 2009, 517, 2968-2973.	0.8	14
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