Yunqi Liu

List of Publications by Year
in descending order

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352	35,973	5891 81	3482 182
papers	citations	h-index	g-index

362	362	362	33552
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aggregation-induced emission of 1-methyl-1,2,3,4,5-pentaphenylsilole. Chemical Communications, 2001, , 1740-1741.	2.2	6,387
2	Semiconducting Ï€-Conjugated Systems in Field-Effect Transistors: A Material Odyssey of Organic Electronics. Chemical Reviews, 2012, 112, 2208-2267.	23.0	3,164
3	Synthesis of N-Doped Graphene by Chemical Vapor Deposition and Its Electrical Properties. Nano Letters, 2009, 9, 1752-1758.	4.5	2,822
4	Chemical doping of graphene. Journal of Materials Chemistry, 2011, 21, 3335-3345.	6.7	1,433
5	A stable solution-processed polymer semiconductor with record high-mobility for printed transistors. Scientific Reports, 2012, 2, 754.	1.6	800
6	Highly Ï€â€Extended Copolymers with Diketopyrrolopyrrole Moieties for Highâ€Performance Fieldâ€Effect Transistors. Advanced Materials, 2012, 24, 4618-4622.	11.1	707
7	25th Anniversary Article: Recent Advances in nâ€Type and Ambipolar Organic Fieldâ€Effect Transistors. Advanced Materials, 2013, 25, 5372-5391.	11.1	608
8	Efficient blue emission from siloles. Journal of Materials Chemistry, 2001, 11, 2974-2978.	6.7	590
9	Functional Organic Fieldâ€Effect Transistors. Advanced Materials, 2010, 22, 4427-4447.	11.1	526
10	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
11	Advances in organic field-effect transistors. Journal of Materials Chemistry, 2005, 15, 53.	6.7	394
12	Controllable Synthesis of Graphene and Its Applications. Advanced Materials, 2010, 22, 3225-3241.	11.1	375
13	Patterned Graphene as Source/Drain Electrodes for Bottomâ€Contact Organic Fieldâ€Effect Transistors. Advanced Materials, 2008, 20, 3289-3293.	11.1	373
14	Scalable Production of a Few-Layer MoS₂/WS₂ Vertical Heterojunction Array and Its Application for Photodetectors. ACS Nano, 2016, 10, 573-580.	7.3	362
15	Facile Synthesis of 3D MnO₂â€“Graphene and Carbon Nanotubeâ€“Graphene Composite Networks for Highâ€Performance, Flexible, Allâ€Solidâ€State Asymmetric Supercapacitors. Advanced Energy Materials, 2014, 4, 1400064.	10.2	360
16	Design of Highâ€Mobility Diketopyrrolopyrroleâ€Based Ï€â€Conjugated Copolymers for Organic Thinâ€Film Transistors. Advanced Materials, 2015, 27, 3589-3606.	11.1	350
17	Interface Engineering: An Effective Approach toward High-Performance Organic Field-Effect Transistors. Accounts of Chemical Research, 2009, 42, 1573-1583.	7.6	321
18	Insight into High-Performance Conjugated Polymers for Organic Field-Effect Transistors. CheM, 2018, 4, 2748-2785.	5.8	313

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19	A Ferroelectric/Electrochemical Modulated Organic Synapse for Ultraflexible, Artificial Visualâ€Perception System. Advanced Materials, 2018, 30, e1803961.	11.1	292
20	Super-Hydrophobicity of Large-Area Honeycomb-Like Aligned Carbon Nanotubes. Journal of Physical Chemistry B, 2002, 106, 9274-9276.	1.2	289
21	Core-Expanded Naphthalene Diimides Fused with 2-(1,3-Dithiol-2-Ylidene)Malonitrile Groups for High-Performance, Ambient-Stable, Solution-Processed n-Channel Organic Thin Film Transistors. Journal of the American Chemical Society, 2010, 132, 3697-3699.	6.6	274
22	Experimental Techniques for the Fabrication and Characterization of Organic Thin Films for Field-Effect Transistors. Chemical Reviews, 2011, 111, 3358-3406.	23.0	241
23	New Series of Blue-Emitting and Electron-Transporting Copolymers Based on Fluorene. Macromolecules, 2002, 35, 2529-2537.	2.2	235
24	Monolayer Hexagonal Boron Nitride Films with Large Domain Size and Clean Interface for Enhancing the Mobility of Grapheneâ€Based Fieldâ€Effect Transistors. Advanced Materials, 2014, 26, 1559-1564.	11.1	209
25	A Solutionâ€Processable Small Molecule Based on Benzodithiophene and Diketopyrrolopyrrole for Highâ€Performance Organic Solar Cells. Advanced Energy Materials, 2013, 3, 1166-1170.	10.2	203
26	Advances in flexible organic field-effect transistors and their applications for flexible electronics. Npj Flexible Electronics, 2022, 6, .	5.1	194
27	Exploration of Near-Infrared Organic Photodetectors. Chemistry of Materials, 2019, 31, 6359-6379.	3.2	189
28	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
29	Multibit Storage of Organic Thinâ€Film Fieldâ€Effect Transistors. Advanced Materials, 2009, 21, 1954-1959.	11.1	178
30	Equiangular Hexagonâ€Shapeâ€Controlled Synthesis of Graphene on Copper Surface. Advanced Materials, 2011, 23, 3522-3525.	11.1	173
31	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
32	Organic printed photonics: From microring lasers to integrated circuits. Science Advances, 2015, 1, e1500257.	4.7	172
33	Black Arsenic: A Layered Semiconductor with Extreme Inâ€Plane Anisotropy. Advanced Materials, 2018, 30, e1800754.	11.1	161
34	Highâ€Performance Airâ€Stable Bipolar Fieldâ€Effect Transistors of Organic Singleâ€Crystalline Ribbons with an Airâ€Gap Dielectric. Advanced Materials, 2008, 20, 1511-1515.	11.1	157
35	Immobilization of tetra-tert-butylphthalocyanines on carbon nanotubes: a first step towards the development of new nanomaterials. Journal of Materials Chemistry, 2002, 12, 1636-1639.	6.7	156
36	Inkjet Printing Highâ€Resolution, Largeâ€Area Graphene Patterns by Coffeeâ€Ring Lithography. Advanced Materials, 2012, 24, 436-440.	11.1	154

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37	Engineering of the dielectricâ€“semiconductor interface in organic field-effect transistors. Journal of Materials Chemistry, 2010, 20, 2599.	6.7	153
38	Self-organized graphene crystal patterns. NPG Asia Materials, 2013, 5, e36-e36.	3.8	153
39	Rapid and ultrasensitive electromechanical detection of ions, biomolecules and SARS-CoV-2 RNA in unamplified samples. Nature Biomedical Engineering, 2022, 6, 276-285.	11.6	153
40	Organic Solar Cells Based on a 2D Benzo[1,2â€b:4,5â€bâ€²]difuranâ€Conjugated Polymer with Highâ€Power Conversion Efficiency. Advanced Materials, 2015, 27, 6969-6975.	11.1	151
41	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
42	Core-Expanded Naphthalene Diimides Fused with Sulfur Heterocycles and End-Capped with Electron-Withdrawing Groups for Air-Stable Solution-Processed n-Channel Organic Thin Film Transistors. Chemistry of Materials, 2011, 23, 1204-1215.	3.2	147
43	Scalable Synthesis of Freestanding Sandwich-structured Graphene/Polyaniline/Graphene Nanocomposite Paper for Flexible All-Solid-State Supercapacitor. Scientific Reports, 2015, 5, 9359.	1.6	147
44	Fractal Etching of Graphene. Journal of the American Chemical Society, 2013, 135, 6431-6434.	6.6	140
45	When Flexible Organic Fieldâ€Effect Transistors Meet Biomimetics: A Prospective View of the Internet of Things. Advanced Materials, 2020, 32, e1901493.	11.1	136
46	Novel Functional Conjugative Hyperbranched Polymers with Aggregationâ€Induced Emission: Synthesis Through Oneâ€Pot â€œA₂+B₄â€•Polymerization and Application as Explosive Chemsensors and PLEDs. Macromolecular Rapid Communications, 2012, 33, 164-171.	2.0	135
47	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
48	A conjugated hyperbranched polymer constructed from carbazole and tetraphenylethylene moieties: convenient synthesis through one-pot â€œA2 + B4â€•Suzuki polymerization, aggregation-induced enhanced emission, and application as explosive chemosensors and PLEDs. Journal of Materials Chemistry, 2012, 22, 6374.	6.7	132
49	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
50	The Intramolecular Junctions of Carbon Nanotubes. Advanced Materials, 2008, 20, 2815-2841.	11.1	126
51	Controllable unzipping for intramolecular junctions of graphene nanoribbons and single-walled carbon nanotubes. Nature Communications, 2013, 4, 1374.	5.8	125
52	Synthesis of large-area, few-layer graphene on iron foil by chemical vapor deposition. Nano Research, 2011, 4, 1208-1214.	5.8	120
53	Highâ€Performance Phototransistors Based on Organic Microribbons Prepared by a Solution Selfâ€Assembly Process. Advanced Functional Materials, 2010, 20, 1019-1024.	7.8	119
54	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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55	Isoindigoâ€Based Polymers with Small Effective Masses for Highâ€Mobility Ambipolar Fieldâ€Effect Transistors. Advanced Materials, 2017, 29, 1702115.	11.1	115
56	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
57	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
58	Substrateâ€Free Ultraâ€Flexible Organic Fieldâ€Effect Transistors and Fiveâ€Stage Ring Oscillators. Advanced Materials, 2013, 25, 5455-5460.	11.1	106
59	Encapsulating Pd Nanoparticles in Double-Shelled Graphene@Carbon Hollow Spheres for Excellent Chemical Catalytic Property. Scientific Reports, 2014, 4, 4053.	1.6	106
60	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
61	Asymmetrical Small Molecule Acceptor Enabling Nonfullerene Polymer Solar Cell with Fill Factor Approaching 79%. ACS Energy Letters, 2018, 3, 1760-1768.	8.8	102
62	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
63	Bisâ€Diketopyrrolopyrrole Moiety as a Promising Building Block to Enable Balanced Ambipolar Polymers for Flexible Transistors. Advanced Materials, 2017, 29, 1606162.	11.1	99
64	Van der Waals Epitaxial Growth of Atomic Layered HfS₂ Crystals for Ultrasensitive Nearâ€Infrared Phototransistors. Advanced Materials, 2017, 29, 1700439.	11.1	96
65	A Retinaâ€Like Dual Band Organic Photosensor Array for Filterâ€Free Nearâ€Infraredâ€toâ€Memory Operations. Advanced Materials, 2017, 29, 1701772.	11.1	95
66	Electrochemical Synthesis of Large Area Twoâ€Dimensional Metalâ€“Organic Framework Films on Copper Anodes. Angewandte Chemie - International Edition, 2021, 60, 2887-2891.	7.2	94
67	First Synthesis of 2,3,6,7-Tetrabromonaphthalene Diimide. Organic Letters, 2007, 9, 3917-3920.	2.4	93
68	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
69	Growth and Etching of Monolayer Hexagonal Boron Nitride. Advanced Materials, 2015, 27, 4858-4864.	11.1	93
70	Highâ€Mobility Conjugated Polymers Based on Fusedâ€Thiophene Building Blocks. Macromolecular Chemistry and Physics, 2011, 212, 428-443.	1.1	92
71	Large-area, flexible imaging arrays constructed by light-charge organic memories. Scientific Reports, 2013, 3, 1080.	1.6	92
72	Highâ€Performance Organic Fieldâ€Effect Transistors with Lowâ€Cost Copper Electrodes. Advanced Materials, 2008, 20, 1286-1290.	11.1	91

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73	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
74	Smallâ€Molecule Solar Cells with Fill Factors up to 0.75 via a Layerâ€byâ€Layer Solution Process. Advanced Energy Materials, 2014, 4, 1300626.	10.2	90
75	Monolayer Twoâ€dimensional Molecular Crystals for an Ultrasensitive OFETâ€based Chemical Sensor. Angewandte Chemie - International Edition, 2020, 59, 4380-4384.	7.2	90
76	Two-Dimensional Field-Effect Transistor Sensors: The Road toward Commercialization. Chemical Reviews, 2022, 122, 10319-10392.	23.0	89
77	Controllable Chemical Vapor Deposition Growth of Few Layer Graphene for Electronic Devices. Accounts of Chemical Research, 2013, 46, 106-115.	7.6	88
78	Hierarchy of graphene wrinkles induced by thermal strain engineering. Applied Physics Letters, 2013, 103, .	1.5	87
79	Sequence of Silicon Monolayer Structures Grown on a Ru Surface: from a Herringbone Structure to Silicene. Nano Letters, 2017, 17, 1161-1166.	4.5	86
80	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
81	Free radical sensors based on inner-cutting graphene field-effect transistors. Nature Communications, 2019, 10, 1544.	5.8	85
82	Phase dependence of single crystalline transistors of tetrathiafulvalene. Applied Physics Letters, 2007, 91, .	1.5	82
83	Solution processed organic field-effect transistors and their application in printed logic circuits. Journal of Materials Chemistry, 2010, 20, 7059.	6.7	82
84	Highâ€Performance Organic Transistor Memory Elements with Steep Flanks of Hysteresis. Advanced Functional Materials, 2008, 18, 2593-2601.	7.8	81
85	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
86	Direct SARS-CoV-2 Nucleic Acid Detection by Y-Shaped DNA Dual-Probe Transistor Assay. Journal of the American Chemical Society, 2021, 143, 17004-17014.	6.6	79
87	Wide-Energy-Gap Host Materials for Blue Phosphorescent Organic Light-Emitting Diodes. Chemistry of Materials, 2009, 21, 1333-1342.	3.2	77
88	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
89	Ultrasensitive and selective sensing of heavy metal ions with modified graphene. Chemical Communications, 2013, 49, 6492.	2.2	76
90	Heteroatom Substituted Organic/Polymeric Semiconductors and their Applications in Fieldâ€Effect Transistors. Advanced Materials, 2014, 26, 6898-6904.	11.1	75

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91	Organic Synaptic Transistors: The Evolutionary Path from Memory Cells to the Application of Artificial Neural Networks. Advanced Functional Materials, 2021, 31, 2101951.	7.8	73
92	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
93	Conjugated Polymers of Rylene Diimide and Phenothiazine for n-Channel Organic Field-Effect Transistors. Macromolecules, 2012, 45, 4115-4121.	2.2	71
94	Novel global-like second-order nonlinear optical dendrimers: convenient synthesis through powerful click chemistry and large NLO effects achieved by using simple azo chromophore. Chemical Science, 2012, 3, 1256.	3.7	70
95	Fast Deposition of Aligning Edgeâ€On Polymers for Highâ€Mobility Ambipolar Transistors. Advanced Materials, 2019, 31, e1805761.	11.1	70
96	Organic thin-film transistors of phthalocyanines. Pure and Applied Chemistry, 2008, 80, 2231-2240.	0.9	69
97	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
98	A Flexible Acetylcholinesterase-Modified Graphene for Chiral Pesticide Sensor. Journal of the American Chemical Society, 2019, 141, 14643-14649.	6.6	67
99	An Acetylene-Containing Perylene Diimide Copolymer for High Mobility n-Channel Transistor in Air. Macromolecules, 2013, 46, 2152-2158.	2.2	66
100	Governing Rule for Dynamic Formation of Grain Boundaries in Grown Graphene. ACS Nano, 2015, 9, 5792-5798.	7.3	66
101	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
102	Organic thin film transistors based on stable amorphous ladder tetraazapentacenes semiconductors. Journal of Materials Chemistry, 2005, 15, 4894.	6.7	65
103	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
104	Dielectric Engineering of a Boron Nitride/Hafnium Oxide Heterostructure for Highâ€Performance 2D Field Effect Transistors. Advanced Materials, 2016, 28, 2062-2069.	11.1	65
105	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
106	Ultrasensitive Detection of SARS-CoV-2 Antibody by Graphene Field-Effect Transistors. Nano Letters, 2021, 21, 7897-7904.	4.5	64
107	Control Synthesis of Silver Nanosheets, Chainlike Sheets, and Microwires via a Simple Solventâ^'Thermal Method. Crystal Growth and Design, 2007, 7, 900-904.	1.4	63
108	Hierarchical Nanoporous Gold-Platinum with Heterogeneous Interfaces for Methanol Electrooxidation. Scientific Reports, 2014, 4, 4370.	1.6	63

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109	Plasma-Enhanced Chemical Vapor Deposition of Two-Dimensional Materials for Applications. Accounts of Chemical Research, 2021, 54, 1011-1022.	7.6	63
110	Growth and Grain Boundaries in 2D Materials. ACS Nano, 2020, 14, 9320-9346.	7.3	62
111	New Azo Chromophoreâ€Containing Conjugated Polymers: Facile Synthesis by Using â€œClickâ€•Chemistry and Enhanced Nonlinear Optical Properties Through the Introduction of Suitable Isolation Groups. Macromolecular Rapid Communications, 2008, 29, 136-141.	2.0	61
112	Chemical Formation and Multiple Applications of Organicâ€“Inorganic Hybrid Perovskite Materials. Journal of the American Chemical Society, 2019, 141, 1406-1414.	6.6	61
113	Direct Four-Probe Measurement of Grain-Boundary Resistivity and Mobility in Millimeter-Sized Graphene. Nano Letters, 2017, 17, 5291-5296.	4.5	59
114	Faceâ€toâ€Face Growth of Waferâ€Scale 2D Semiconducting MOF Films on Dielectric Substrates. Advanced Materials, 2021, 33, e2007741.	11.1	58
115	The ultrafast intramolecular dynamics of phthalocyanine and porphyrin derivatives. Journal of Chemical Physics, 1996, 105, 5377-5379.	1.2	55
116	A novel air-stable n-type organic semiconductor: 4,4â€²-bis[(6,6â€²-diphenyl)-2,2-difluoro-1,3,2-dioxaborine] and its application in organic ambipolar field-effect transistors. Journal of Materials Chemistry, 2006, 16, 4499-4503.	6.7	55
117	Solventâ€Assisted Reâ€annealing of Polymer Films for Solutionâ€Processable Organic Fieldâ€Effect Transistors. Advanced Materials, 2010, 22, 1273-1277.	11.1	54
118	Highly Organized Epitaxy of Dirac Semimetallic PtTe₂ Crystals with Extrahigh Conductivity and Visible Surface Plasmons at Edges. ACS Nano, 2018, 12, 9405-9411.	7.3	54
119	Monolayer organic field-effect transistors. Science China Chemistry, 2019, 62, 313-330.	4.2	54
120	High-mobility thin-film transistors based on aligned carbon nanotubes. Applied Physics Letters, 2003, 83, 150-152.	1.5	53
121	One-Pot Microbial Method to Synthesize Dual-Doped Graphene and Its Use as High-Performance Electrocatalyst. Scientific Reports, 2013, 3, 3499.	1.6	53
122	Acceptor Modulation Strategies for Improving the Electron Transport in Highâ€Performance Organic Fieldâ€Effect Transistors. Advanced Materials, 2022, 34, e2104325.	11.1	53
123	Phenyl-substituted fluorene-dimer cored anthracene derivatives: highly fluorescent and stable materials for high performance organic blue- and white-light-emitting diodes. Journal of Materials Chemistry, 2010, 20, 3186.	6.7	52
124	Linear benzene-fused bis(tetrathiafulvalene) compounds for solution processed organic field-effect transistors. Journal of Materials Chemistry, 2007, 17, 736-743.	6.7	51
125	Novel Functionalized Conjugated Polythiophene with Oxetane Substituents: Synthesis, Optical, Electrochemical, and Field-Effect Properties. Macromolecules, 2009, 42, 3222-3226.	2.2	51
126	Novel copolymers incorporating dithieno[3,2-b:2â€²,3â€²-d]thiophene moieties for air-stable and high performance organic field-effect transistors. Journal of Materials Chemistry, 2008, 18, 3426.	6.7	49

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127	Effect of the Longer Î²-Unsubstituted Oligothiophene Unit (6T and 7T) on the Organic Thin-Film Transistor Performances of Diketopyrrolopyrrole-Oligothiophene Copolymers. Chemistry of Materials, 2013, 25, 4290-4296.	3.2	49
128	Twoâ€Dimensional Metalâ€Organic Framework Film for Realizing Optoelectronic Synaptic Plasticity. Angewandte Chemie - International Edition, 2021, 60, 17440-17445.	7.2	49
129	Large Femtosecond Third-Order Nonlinear Optical Response in a Novel Donorâ^'Acceptor Copolymer Consisting of Ethynylfluorene and Tetraphenyldiaminobiphenyl Units. Chemistry of Materials, 2001, 13, 1540-1544.	3.2	48
130	Field dependent and high light sensitive organic phototransistors based on linear asymmetric organic semiconductor. Applied Physics Letters, 2009, 94, 143303.	1.5	48
131	Threeâ€Component Integrated Ultrathin Organic Photosensors for Plastic Optoelectronics. Advanced Materials, 2016, 28, 624-630.	11.1	48
132	Solidâ€“solid interface growth of conductive metalâ€“organic framework nanowire arrays and their supercapacitor application. Materials Chemistry Frontiers, 2020, 4, 243-251.	3.2	48
133	Ultraprecise Antigen 10-in-1 Pool Testing by Multiantibodies Transistor Assay. Journal of the American Chemical Society, 2021, 143, 19794-19801.	6.6	48
134	Synthesis and electroluminescence of poly(aryleneethynylene)s based on fluorene containing holeÂtransport units. Journal of Materials Chemistry, 2001, 11, 1606-1611.	6.7	47
135	Selfâ€Aligned Singleâ€Crystal Graphene Grains. Advanced Functional Materials, 2014, 24, 1664-1670.	7.8	47
136	Highâ€Mobility Organic Lightâ€Emitting Semiconductors and Its Optoelectronic Devices. Small Structures, 2021, 2, 2000083.	6.9	47
137	Recent progress in organic fieldâ€effect transistorâ€based integrated circuits. Journal of Polymer Science, 2022, 60, 311-327.	2.0	46
138	New series of AB₂â€type hyperbranched polytriazoles derived from the same polymeric intermediate: Different endcapping spacers with adjustable bulk and convenient syntheses via click chemistry under copper(I) catalysis. Journal of Polymer Science Part A, 2011, 49, 1977-1987.	2.5	45
139	Controllable preparation of patterns of aligned carbon nanotubes on metals and metal-coated silicon substrates. Journal of Materials Chemistry, 2003, 13, 1124-1126.	6.7	44
140	Two-dimensional covalent organic framework films prepared on various substrates through vapor induced conversion. Nature Communications, 2022, 13, 1411.	5.8	44
141	Graphene: learning from carbon nanotubes. Journal of Materials Chemistry, 2011, 21, 919-929.	6.7	43
142	Synthesis and properties of fluorene or carbazole-based and dicyanovinyl-capped n-type organic semiconductors. Journal of Materials Chemistry, 2008, 18, 1131.	6.7	42
143	Effects of structure-manipulated molecular stacking on solid-state optical properties and device performances. Polymer Chemistry, 2012, 3, 2832.	1.9	41
144	Application of organic field-effect transistors in memory. Materials Chemistry Frontiers, 2020, 4, 2845-2862.	3.2	40

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145	Intrinsically flexible displays: key materials and devices. National Science Review, 2022, 9, .	4.6	40
146	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
147	Layerâ€Stacking Growth and Electrical Transport of Hierarchical Graphene Architectures. Advanced Materials, 2014, 26, 3218-3224.	11.1	39
148	Sub-5 nm single crystalline organic pâ€“n heterojunctions. Nature Communications, 2021, 12, 2774.	5.8	39
149	Engineering of Amorphous Polymeric Insulators for Organic Fieldâ€Effect Transistors. Advanced Electronic Materials, 2017, 3, 1700157.	2.6	38
150	Low Band Gap Donorâ€“Acceptor Conjugated Polymers with Indanone-Condensed Thiadiazolo[3,4-g]quinoxaline Acceptors. Macromolecules, 2019, 52, 6149-6159.	2.2	38
151	Ultralowâ€Power and Multisensory Artificial Synapse Based on Electrolyteâ€Gated Vertical Organic Transistors. Advanced Functional Materials, 2022, 32, .	7.8	38
152	Effect of polymer chain conformation on field-effect transistor performance: synthesis and properties of two arylene imide based Dâ€“A copolymers. Journal of Materials Chemistry, 2012, 22, 14639.	6.7	37
153	An acceptorâ€acceptor conjugated copolymer based on perylene diimide for high mobility nâ€channel transistor in air. Journal of Polymer Science Part A, 2012, 50, 4266-4271.	2.5	37
154	Self-Controlled Growth of Covalent Organic Frameworks by Repolymerization. Chemistry of Materials, 2020, 32, 5634-5640.	3.2	37
155	New semiconductors based on triphenylamine with macrocyclic architecture: synthesis, properties and applications in OFETs. Journal of Materials Chemistry, 2007, 17, 4483.	6.7	36
156	Narrow band gap Dâ€“A copolymer of indacenodithiophene and diketopyrrolopyrrole with deep HOMO level: Synthesis and application in fieldâ€effect transistors and polymer solar cells. Journal of Polymer Science Part A, 2012, 50, 371-377.	2.5	35
157	Synthesis and characterization of a quinoxaline compound containing polyphenylphenyl and strong electron-accepting groups, and its multiple applications in electroluminescent devices. Journal of Materials Chemistry, 2008, 18, 299-305.	6.7	34
158	An Alternative Approach to Constructing Solution Processable Multifunctional Materials: Their Structure, Properties, and Application in Highâ€Performance Organic Lightâ€Emitting Diodes. Advanced Functional Materials, 2010, 20, 3125-3135.	7.8	34
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