

# Yunqi Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/249218/publications.pdf>

Version: 2024-02-01

352  
papers

35,973  
citations

6840

81  
h-index

4035

182  
g-index

362  
all docs

362  
docs citations

362  
times ranked

38450  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in organic field-effect transistor-based integrated circuits. <i>Journal of Polymer Science</i> , 2022, 60, 311-327.	2.0	46
2	A nonchlorinated solvent-processed polymer semiconductor for high-performance ambipolar transistors. <i>National Science Review</i> , 2022, 9, nwab145.	4.6	5
3	Olefin-linked covalent organic frameworks with twisted tertiary amine knots for enhanced ultraviolet detection. <i>Chinese Chemical Letters</i> , 2022, 33, 2621-2624.	4.8	7
4	Studying the adsorption mechanisms of nanoplastics on covalent organic frameworks via molecular dynamics simulations. <i>Journal of Hazardous Materials</i> , 2022, 421, 126796.	6.5	19
5	Acceptor Modulation Strategies for Improving the Electron Transport in High-Performance Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2022, 34, e2104325.	11.1	53
6	Near-Equilibrium Growth of Chemically Stable Covalent Organic Framework/Graphene Oxide Hybrid Materials for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
7	Near-Equilibrium Growth of Chemically Stable Covalent Organic Framework/Graphene Oxide Hybrid Materials for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	23
8	Stable Diarylamine-Substituted Tris(2,4,6-trichlorophenyl)methyl Radicals: One-Step Synthesis, Near-Infrared Emission, and Redox Chemistry. <i>CCS Chemistry</i> , 2022, 4, 3190-3203.	4.6	11
9	Capillary-Confinement Crystallization for Monolayer Molecular Crystal Arrays. <i>Advanced Materials</i> , 2022, 34, e2107574.	11.1	25
10	Bottom-Up Etching-Mediated Synthesis of Large-Scale Pure Monolayer Graphene on Cyclic Polishing-Annealed Cu(111). <i>Advanced Materials</i> , 2022, 34, e2108608.	11.1	16
11	Ultrahigh-Performance Optoelectronic Skin Based on Intrinsically Stretchable Perovskite-Polymer Heterojunction Transistors. <i>Advanced Materials</i> , 2022, 34, e2107304.	11.1	34
12	Constrain Effect of Charge Traps in Organic Field-Effect Transistors with Ferroelectric Polymer as a Dielectric Interfacial Layer. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, , .	4.0	1
13	Ultrahigh-Performance Optoelectronic Skin Based on Intrinsically Stretchable Perovskite-Polymer Heterojunction Transistors (Adv. Mater. 4/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	0
14	Frontispiz: Near-Equilibrium Growth of Chemically Stable Covalent Organic Framework/Graphene Oxide Hybrid Materials for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	0
15	Frontispiece: Near-Equilibrium Growth of Chemically Stable Covalent Organic Framework/Graphene Oxide Hybrid Materials for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	0
16	Advances in flexible organic field-effect transistors and their applications for flexible electronics. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	194
17	Isomeric Acceptor-Acceptor Polymers: Enabling Electron Transport with Strikingly Different Semiconducting Properties in n-Channel Organic Thin-Film Transistors. <i>Chemistry of Materials</i> , 2022, 34, 1403-1413.	3.2	26
18	Rapid and ultrasensitive electromechanical detection of ions, biomolecules and SARS-CoV-2 RNA in unamplified samples. <i>Nature Biomedical Engineering</i> , 2022, 6, 276-285.	11.6	153

#	ARTICLE	IF	CITATIONS
19	Bottom-Up Etching-Mediated Synthesis of Large-Scale Pure Monolayer Graphene on Cyclic Polishing-Annealed Cu(111) (Adv. Mater. 8/2022). Advanced Materials, 2022, 34, .	11.1	0
20	Organic Semiconductors for Room-Temperature Spin Valves. , 2022, 4, 805-814.		8
21	Two-dimensional covalent organic framework films prepared on various substrates through vapor induced conversion. Nature Communications, 2022, 13, 1411.	5.8	44
22	Tunable Planar Focusing Based on Hyperbolic Phonon Polaritons in $\text{MoO}_3$ . Advanced Materials, 2022, 34, e2105590.	11.1	32
23	Ultralow-Power and Multisensory Artificial Synapse Based on Electrolyte-Gated Vertical Organic Transistors. Advanced Functional Materials, 2022, 32, .	7.8	38
24	Ultra-Fast Synthesis of Single-Crystalline Three-Dimensional Covalent Organic Frameworks and Their Applications in Polarized Optics. Chemistry of Materials, 2022, 34, 2886-2895.	3.2	12
25	Two-Dimensional Field-Effect Transistor Sensors: The Road toward Commercialization. Chemical Reviews, 2022, 122, 10319-10392.	23.0	89
26	Triple-Probe DNA Framework-Based Transistor for SARS-CoV-2 10-in-1 Pooled Testing. Nano Letters, 2022, 22, 3307-3316.	4.5	24
27	Intrinsically flexible displays: key materials and devices. National Science Review, 2022, 9, .	4.6	40
28	Engineering of Chemical Vapor Deposition Graphene Layers: Growth, Characterization, and Properties. Advanced Functional Materials, 2022, 32, .	7.8	8
29	An all-C-H-activation strategy to rapidly synthesize high-mobility well-balanced ambipolar semiconducting polymers. Matter, 2022, 5, 1953-1968.	5.0	27
30	A Self-Assembled 3D Penetrating Nanonetwork for High-Performance Intrinsically Stretchable Polymer Light-Emitting Diodes. Advanced Materials, 2022, 34, e2201844.	11.1	19
31	Self-Expanding Molten Salt-Driven Growth of Patterned Transition-Metal Dichalcogenide Crystals. Journal of the American Chemical Society, 2022, 144, 8746-8755.	6.6	15
32	Mechanisms of the epitaxial growth of two-dimensional polycrystals. Npj Computational Materials, 2022, 8, .	3.5	4
33	Multifunctional neurosynaptic devices for human perception systems. Journal of Semiconductors, 2022, 43, 051201.	2.0	6
34	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
35	Molecular Packing and Charge Transport Behaviors of Semiconducting Polymers Over a Wide Temperature Range. Advanced Functional Materials, 2022, 32, .	7.8	8
36	High-Mobility Organic Light-Emitting Semiconductors and Its Optoelectronic Devices. Small Structures, 2021, 2, 2000083.	6.9	47

#	ARTICLE	IF	CITATIONS
37	Electrochemical Synthesis of Large Area Two-Dimensional Metal-Organic Framework Films on Copper Anodes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2887-2891.	7.2	94
38	High-performance near-infrared polymeric phototransistors realized by combining cross-linked polymeric semiconductors and bulk heterojunction bilayer structures. <i>Applied Materials Today</i> , 2021, 22, 100899.	2.3	24
39	Electrochemical Synthesis of Large Area Two-Dimensional Metal-Organic Framework Films on Copper Anodes. <i>Angewandte Chemie</i> , 2021, 133, 2923-2927.	1.6	12
40	Perovskite photodetectors and their application in artificial photonic synapses. <i>Chemical Communications</i> , 2021, 57, 11429-11442.	2.2	27
41	Ultra-sensitive boscalid sensors based on a $\beta$ -cyclodextrin modified perfluorinated copper phthalocyanine field-effect transistor. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12877-12883.	2.7	3
42	Short-wavelength ultraviolet dosimeters based on DNA nanostructure-modified graphene field-effect transistors. <i>Chemical Communications</i> , 2021, 57, 5071-5074.	2.2	6
43	Facet-to-Facet Growth of Wafer-Scale 2D Semiconducting MOF Films on Dielectric Substrates. <i>Advanced Materials</i> , 2021, 33, e2007741.	11.1	58
44	Plasma-Enhanced Chemical Vapor Deposition of Two-Dimensional Materials for Applications. <i>Accounts of Chemical Research</i> , 2021, 54, 1011-1022.	7.6	63
45	Thiadiazoloquinoxaline-Fused Acenaphthenequinone imide: A Highly Electron-Withdrawing Acceptor for Ambipolar Semiconducting Polymers with Strong Near-Infrared Absorption. <i>Macromolecules</i> , 2021, 54, 3120-3129.	2.2	20
46	Organic Synaptic Transistors: The Evolutionary Path from Memory Cells to the Application of Artificial Neural Networks. <i>Advanced Functional Materials</i> , 2021, 31, 2101951.	7.8	73
47	Alignment of linear polymeric grains for highly stable N-type thin-film transistors. <i>CheM</i> , 2021, 7, 1258-1270.	5.8	33
48	Sub-5 nm single crystalline organic $\pi$ -n heterojunctions. <i>Nature Communications</i> , 2021, 12, 2774.	5.8	39
49	A comprehensive nano-interpenetrating semiconducting photoresist toward all-photolithography organic electronics. <i>Science Advances</i> , 2021, 7, .	4.7	31
50	Two-Dimensional Metal-Organic Framework Film for Realizing Optoelectronic Synaptic Plasticity. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17440-17445.	7.2	49
51	Two-Dimensional Metal-Organic Framework Film for Realizing Optoelectronic Synaptic Plasticity. <i>Angewandte Chemie</i> , 2021, 133, 17580-17585.	1.6	6
52	Crystal Engineering of Angular-Shaped Heteroarenes Based on Cyclopenta[ <i>b</i> ]thiopyran for Controlling the Charge Carrier Mobility. <i>Journal of the American Chemical Society</i> , 2021, 143, 11088-11101.	6.6	11
53	Dual-Mode Learning of Ambipolar Synaptic Phototransistor Based on 2D Perovskite/Organic Heterojunction for Flexible Color Recognizable Visual System. <i>Small</i> , 2021, 17, e2102820.	5.2	66
54	Nonchlorinated Solubility Enhanced by Lipophilicity: An Effective Strategy for Environmentally Benign Processing of Rigidly Regular $n$ -type Polymeric Semiconductors. <i>Advanced Electronic Materials</i> , 2021, 7, 2100526.	2.6	6

#	ARTICLE	IF	CITATIONS
55	Theoretical Study of Chemical Vapor Deposition Synthesis of Graphene and Beyond: Challenges and Perspectives. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7942-7963.	2.1	15
56	Ultrasensitive Detection of SARS-CoV-2 Antibody by Graphene Field-Effect Transistors. <i>Nano Letters</i> , 2021, 21, 7897-7904.	4.5	64
57	Electrically Conductive Metal-Organic Framework Thin Film-Based On-Chip Micro-Biosensor: A Platform to Unravel Surface Morphology-Dependent Biosensing. <i>Advanced Functional Materials</i> , 2021, 31, 2102855.	7.8	31
58	Synthesis of Two-Dimensional C Bonded Truxene-Based Covalent Organic Frameworks by Irreversible Brønsted Acid-Catalyzed Aldol Cyclotrimerization. <i>Research</i> , 2021, 2021, 9790705.	2.8	4
59	A cyclopenta-fused dibenzo[ <i>b</i> -, <i>d</i> -]thiophene-co-phenanthrene macrocyclic tetradicaloid. <i>Chemical Science</i> , 2021, 12, 3952-3957.	3.7	15
60	Regulation of the backbone structure and optoelectrical properties of bis-pyridal[2,1,3]thiadiazole-based ambipolar semiconducting polymers via a fluorination strategy. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15083-15094.	2.7	7
61	Bis-acenaphthoquinone diimides with high electron deficiency and good coplanar conformation. <i>Chemical Communications</i> , 2021, 57, 7822-7825.	2.2	13
62	Direct SARS-CoV-2 Nucleic Acid Detection by Y-Shaped DNA Dual-Probe Transistor Assay. <i>Journal of the American Chemical Society</i> , 2021, 143, 17004-17014.	6.6	79
63	Toward Efficient Charge Transport of Polymer-Based Organic Field-Effect Transistors: Molecular Design, Processing, and Functional Utilization. <i>Accounts of Materials Research</i> , 2021, 2, 1047-1058.	5.9	27
64	Aldol Polymerization to Construct Half-Fused Semiconducting Polymers. <i>Macromolecules</i> , 2021, 54, 10312-10320.	2.2	15
65	Rapid SARS-CoV-2 Nucleic Acid Testing and Pooled Assay by Tetrahedral DNA Nanostructure Transistor. <i>Nano Letters</i> , 2021, 21, 9450-9457.	4.5	33
66	Ultraprecise Antigen 10-in-1 Pool Testing by Multiantibodies Transistor Assay. <i>Journal of the American Chemical Society</i> , 2021, 143, 19794-19801.	6.6	48
67	When Flexible Organic Field-Effect Transistors Meet Biomimetics: A Prospective View of the Internet of Things. <i>Advanced Materials</i> , 2020, 32, e1901493.	11.1	136
68	Solid-solid interface growth of conductive metal-organic framework nanowire arrays and their supercapacitor application. <i>Materials Chemistry Frontiers</i> , 2020, 4, 243-251.	3.2	48
69	A sulfur-containing hetero-octulene: synthesis, host-guest properties, and transistor applications. <i>Chemical Communications</i> , 2020, 56, 9990-9993.	2.2	15
70	Growth and Grain Boundaries in 2D Materials. <i>ACS Nano</i> , 2020, 14, 9320-9346.	7.3	62
71	The effect of thickness on the optoelectronic properties of organic field-effect transistors: towards molecular crystals at monolayer limit. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13154-13168.	2.7	34
72	Ultrafast In Situ Synthesis of Large-Area Conductive Metal-Organic Frameworks on Substrates for Flexible Chemiresistive Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 57235-57244.	4.0	34

#	ARTICLE	IF	CITATIONS
73	Self-Controlled Growth of Covalent Organic Frameworks by Repolymerization. <i>Chemistry of Materials</i> , 2020, 32, 5634-5640.	3.2	37
74	Graphene Field-Effect Transistors on Hexagonal Boron Nitride for Enhanced Interfacial Thermal Dissipation. <i>Advanced Electronic Materials</i> , 2020, 6, 2000059.	2.6	8
75	Antifouling Field-Effect Transistor Sensing Interface Based on Covalent Organic Frameworks. <i>Advanced Electronic Materials</i> , 2020, 6, 1901169.	2.6	26
76	Visualization of Crystallographic Orientation and Twist Angles in Two-Dimensional Crystals with an Optical Microscope. <i>Nano Letters</i> , 2020, 20, 6059-6066.	4.5	6
77	Catalyst-Free Growth of Two-Dimensional BC <sub>x</sub> N Materials on Dielectrics by Temperature-Dependent Plasma-Enhanced Chemical Vapor Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 33113-33120.	4.0	15
78	Application of organic field-effect transistors in memory. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2845-2862.	3.2	40
79	Strain-Sensitive Fluorescence from Two-Dimensional Organic Crystal. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1909-1914.	2.1	6
80	Monolayer Two-dimensional Molecular Crystals for an Ultrasensitive OFET-based Chemical Sensor. <i>Angewandte Chemie</i> , 2020, 132, 4410-4414.	1.6	10
81	Monolayer Two-dimensional Molecular Crystals for an Ultrasensitive OFET-based Chemical Sensor. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4380-4384.	7.2	90
82	Organostannane-free polycondensation and eco-friendly processing strategy for the design of semiconducting polymers in transistors. <i>Materials Horizons</i> , 2020, 7, 1955-1970.	6.4	24
83	Integrated ionic sieving channels from engineering ordered monolayer two-dimensional crystallite structures. <i>Science Bulletin</i> , 2020, 65, 1356-1362.	4.3	3
84	Methoxylation of quinoidal bithiophene as a single regioisomer building block for narrow-bandgap conjugated polymers and high-performance organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15168-15174.	2.7	18
85	Organic photodiodes for near-infrared light detection. <i>Semiconductor Science and Technology</i> , 2020, 35, 114001.	1.0	12
86	Controllable synthesis of graphene by CVD method. <i>Chinese Science Bulletin</i> , 2020, 65, 3134-3149.	0.4	3
87	Low Band Gap Donor-Acceptor Conjugated Polymers with Indanone-Condensed Thiadiazolo[3,4-g]quinoxaline Acceptors. <i>Macromolecules</i> , 2019, 52, 6149-6159.	2.2	38
88	Recent progress in stretchable organic field-effect transistors. <i>Science China Technological Sciences</i> , 2019, 62, 1255-1276.	2.0	18
89	Inner-Evaporator Modification of Low-Cost Metal Electrodes of Organic Field-Effect Transistors by 2D Polyporphyrin. <i>Advanced Electronic Materials</i> , 2019, 5, 1900447.	2.6	4
90	A two-dimensional cross-linked polythiophene network. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9362-9368.	2.7	8

#	ARTICLE	IF	CITATIONS
91	Distinctive Performance of Terahertz Photodetection Driven by Charge Density Wave Order in CVD-Grown Tantalum Diselenide. <i>Advanced Functional Materials</i> , 2019, 29, 1905057.	7.8	13
92	Ultrafast Growth of Thin Hexagonal and Pyramidal Molybdenum Nitride Crystals and Films. , 2019, 1, 383-388.		17
93	A Flexible Acetylcholinesterase-Modified Graphene for Chiral Pesticide Sensor. <i>Journal of the American Chemical Society</i> , 2019, 141, 14643-14649.	6.6	67
94	Epitaxial Growth of h-BN on Templates of Various Dimensionalities in h-BN Graphene Material Systems. <i>Advanced Materials</i> , 2019, 31, e1805582.	11.1	28
95	Monolayer organic field-effect transistors. <i>Science China Chemistry</i> , 2019, 62, 313-330.	4.2	54
96	Low Bandgap Donor-Acceptor $\pi$ -Conjugated Polymers From Diarylcyclopentadienone-Fused Naphthalimides. <i>Frontiers in Chemistry</i> , 2019, 7, 362.	1.8	19
97	Exploration of Near-Infrared Organic Photodetectors. <i>Chemistry of Materials</i> , 2019, 31, 6359-6379.	3.2	189
98	Surface Catalytic Modification of Conjugated Polymer on Low-Cost Bottom Contact for Improved Injection Efficiency of Organic Transistors. <i>Advanced Electronic Materials</i> , 2019, 5, 1900028.	2.6	1
99	Low temperature growth of clean single layer hexagonal boron nitride flakes and film for graphene-based field-effect transistors. <i>Science China Materials</i> , 2019, 62, 1218-1225.	3.5	13
100	2D Materials: Epitaxial Growth of h-BN on Templates of Various Dimensionalities in h-BN Graphene Material Systems (Adv. Mater. 12/2019). <i>Advanced Materials</i> , 2019, 31, 1970088.	11.1	1
101	Improving the Electronic Transporting Property for Flexible Field-Effect Transistors with Naphthalene Diimide-Based Conjugated Polymer through Branching/Linear Side-Chain Engineering Strategy. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15837-15844.	4.0	32
102	Free radical sensors based on inner-cutting graphene field-effect transistors. <i>Nature Communications</i> , 2019, 10, 1544.	5.8	85
103	Air-Stable Symmetric Ambipolar Field-Effect Transistors Based on Reduced Graphene Oxide/OTS Self-Assembled Monolayer Heterostructure. <i>ChemNanoMat</i> , 2019, 5, 472-478.	1.5	2
104	Nano-Subsidence-Assisted Precise Integration of Patterned Two-Dimensional Materials for High-Performance Photodetector Arrays. <i>ACS Nano</i> , 2019, 13, 2654-2662.	7.3	14
105	High-Performance Ambipolar Polymers Based on Electron-Withdrawing Group Substituted Bay-Annulated Indigo. <i>Advanced Functional Materials</i> , 2019, 29, 1804839.	7.8	29
106	Chemical Formation and Multiple Applications of Organic-Inorganic Hybrid Perovskite Materials. <i>Journal of the American Chemical Society</i> , 2019, 141, 1406-1414.	6.6	61
107	Design and synthesis of high performance $\pi$ -conjugated materials through antiaromaticity and quinoid strategy for organic field-effect transistors. <i>Materials Science and Engineering Reports</i> , 2019, 136, 13-26.	14.8	72
108	Fast Deposition of Aligning Edge-On Polymers for High-Mobility Ambipolar Transistors. <i>Advanced Materials</i> , 2019, 31, e1805761.	11.1	70

#	ARTICLE	IF	CITATIONS
109	Copolymers of Bis-Diketopyrrolopyrrole and Benzothiadiazole Derivatives for High-Performance Ambipolar Field-Effect Transistors on Flexible Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 25858-25865.	4.0	27
110	Controlling Fundamental Fluctuations for Reproducible Growth of Large Single-Crystal Graphene. <i>ACS Nano</i> , 2018, 12, 1778-1784.	7.3	31
111	n-Type organic light-emitting transistors with high mobility and improved air stability. <i>Journal of Materials Chemistry C</i> , 2018, 6, 535-540.	2.7	21
112	NIR polymers and phototransistors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 13049-13058.	2.7	25
113	Neuromorphic Devices: A Ferroelectric/Electrochemical Modulated Organic Synapse for Ultraflexible, Artificial Visual-Perception System ( <i>Adv. Mater.</i> 46/2018). <i>Advanced Materials</i> , 2018, 30, 1870349.	11.1	6
114	A Ferroelectric/Electrochemical Modulated Organic Synapse for Ultraflexible, Artificial Visual-Perception System. <i>Advanced Materials</i> , 2018, 30, e1803961.	11.1	292
115	Insight into High-Performance Conjugated Polymers for Organic Field-Effect Transistors. <i>CheM</i> , 2018, 4, 2748-2785.	5.8	313
116	Triple Acceptors in a Polymeric Architecture for Balanced Ambipolar Transistors and High-Gain Inverters. <i>Advanced Materials</i> , 2018, 30, e1801951.	11.1	32
117	Asymmetrical Small Molecule Acceptor Enabling Nonfullerene Polymer Solar Cell with Fill Factor Approaching 79%. <i>ACS Energy Letters</i> , 2018, 3, 1760-1768.	8.8	102
118	Highly Organized Epitaxy of Dirac Semimetallic PtTe <sub>2</sub> Crystals with Extra-high Conductivity and Visible Surface Plasmons at Edges. <i>ACS Nano</i> , 2018, 12, 9405-9411.	7.3	54
119	Organic Field-Effect Transistors: Triple Acceptors in a Polymeric Architecture for Balanced Ambipolar Transistors and High-Gain Inverters ( <i>Adv. Mater.</i> 32/2018). <i>Advanced Materials</i> , 2018, 30, 1870241.	11.1	0
120	Black Arsenic: A Layered Semiconductor with Extreme In-Plane Anisotropy. <i>Advanced Materials</i> , 2018, 30, e1800754.	11.1	161
121	Sequence of Silicon Monolayer Structures Grown on a Ru Surface: from a Herringbone Structure to Silicene. <i>Nano Letters</i> , 2017, 17, 1161-1166.	4.5	86
122	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 cm <sup>2</sup> /V s. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2892-2898.	2.7	21
123	One-pot homopolymerization of thiophene-fused isoindigo for ambient-stable ambipolar organic field-effect transistors. <i>RSC Advances</i> , 2017, 7, 25009-25018.	1.7	8
124	Water-assisted growth of large-sized single crystal hexagonal boron nitride grains. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1836-1840.	3.2	34
125	A two-dimensional molecule with a large conjugation degree: synthesis, two-photon absorption and charge transport ability. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5199-5206.	2.7	24
126	A Retina-Like Dual Band Organic Photosensor Array for Filter-Free Near-Infrared Color Memory Operations. <i>Advanced Materials</i> , 2017, 29, 1701772.	11.1	95



#	ARTICLE	IF	CITATIONS
127	Van der Waals Epitaxial Growth of Atomic Layered HfS <sub>2</sub> Crystals for Ultrasensitive Near-Infrared Phototransistors. <i>Advanced Materials</i> , 2017, 29, 1700439.	11.1	96
128	Tailoring graphene layer-to-layer growth. <i>Nanotechnology</i> , 2017, 28, 265101.	1.3	18
129	Bis-Diketopyrrolopyrrole Moiety as a Promising Building Block to Enable Balanced Ambipolar Polymers for Flexible Transistors. <i>Advanced Materials</i> , 2017, 29, 1606162.	11.1	99
130	High-Performance, Air-Stable Field-Effect Transistors Based on Heteroatom-Substituted Naphthalenediimide-Benzothiadiazole Copolymers Exhibiting Ultrahigh Electron Mobility up to 8.5 cm <sup>2</sup> V <sup>-1</sup> s <sup>-1</sup> . <i>Advanced Materials</i> , 2017, 29, 1602410.	11.1	187
131	N-Alkylation vs O-Alkylation: Influence on the Performance of a Polymeric Field-Effect Transistors Based on a Tetracyclic Lactam Building Block. <i>Macromolecules</i> , 2017, 50, 8497-8504.	2.2	15
132	Extended Isoindigo-Based Derivative: A Promising Electron-Deficient Building Block for Polymer Semiconductors. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 40549-40555.	4.0	29
133	Photosensors: A Retina-Like Dual Band Organic Photosensor Array for Filter-Free Near-Infrared Memory Operations ( <i>Adv. Mater.</i> 32/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	8
134	Engineering of Amorphous Polymeric Insulators for Organic Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2017, 3, 1700157.	2.6	38
135	Isoindigo-Based Polymers with Small Effective Masses for High-Mobility Ambipolar Field-Effect Transistors. <i>Advanced Materials</i> , 2017, 29, 1702115.	11.1	115
136	Synthesis and properties of a series of quinoxaline-based copolymers: an example to understand the effect of the structure of the mainchain and sidechain on the charge transport ability of the polymers. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2085-2093.	3.2	9
137	Direct Four-Probe Measurement of Grain-Boundary Resistivity and Mobility in Millimeter-Sized Graphene. <i>Nano Letters</i> , 2017, 17, 5291-5296.	4.5	59
138	Regioregular Bis-Pyridal[2,1,3]thiadiazole-Based Semiconducting Polymer for High-Performance Ambipolar Transistors. <i>Journal of the American Chemical Society</i> , 2017, 139, 17735-17738.	6.6	115
139	Design and effective synthesis methods for high-performance polymer semiconductors in organic field-effect transistors. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2423-2456.	3.2	106
140	Substrate-Induced Synthesis of Nitrogen-Doped Holey Graphene Nanocapsules for Advanced Metal-Free Bifunctional Electrocatalysts. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600207.	1.2	15
141	Three-Component Integrated Ultrathin Organic Photosensors for Plastic Optoelectronics. <i>Advanced Materials</i> , 2016, 28, 624-630.	11.1	48
142	Dielectric Engineering of a Boron Nitride/Hafnium Oxide Heterostructure for High-Performance 2D Field Effect Transistors. <i>Advanced Materials</i> , 2016, 28, 2062-2069.	11.1	65
143	Anisotropic Charge-Carrier Transport in High-Mobility Donor-Acceptor Conjugated Polymer Semiconductor Films. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2725-2729.	1.7	7
144	Active Morphology Control for Concomitant Long Distance Spin Transport and Photoresponse in a Single Organic Device. <i>Advanced Materials</i> , 2016, 28, 2609-2615.	11.1	77

#	ARTICLE	IF	CITATIONS
145	An isoindigo-bithiazole-based acceptor-acceptor copolymer for balanced ambipolar organic thin-film transistors. <i>Science China Chemistry</i> , 2016, 59, 679-683.	4.2	13
146	Special topic on molecular functional materials and applications. <i>Science China Chemistry</i> , 2016, 59, 651-652.	4.2	0
147	Synthesis, Structural Characterization, and Field-Effect Transistor Properties of <i>n</i> -Channel Semiconducting Polymers Containing Five-Membered Heterocyclic Acceptors: Superiority of Thiadiazole Compared with Oxadiazole. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 33051-33059.	4.0	25
148	Benzopyrazinoisoindigo or Its Reduced Form? Synthesis, Clarification, and Application in Field-Effect Transistors. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 2603-2607.	1.2	2
149	Scalable Production of a Few-Layer MoS <sub>2</sub> /WS <sub>2</sub> Vertical Heterojunction Array and Its Application for Photodetectors. <i>ACS Nano</i> , 2016, 10, 573-580.	7.3	362
150	Growth and Etching Kinetics: Growth and Etching of Monolayer Hexagonal Boron Nitride (Adv. Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54)	11.1	2
151	Investigation of Abnormal Long-Wavelength Fluorescence Emissions Occurring in Binary Organic Nanoparticle Films. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 962-969.	1.2	5
152	Organic Solar Cells Based on a 2D Benzo[1,2- <i>b</i> :4,5- <i>b'</i> ]difuran-Conjugated Polymer with High Power Conversion Efficiency. <i>Advanced Materials</i> , 2015, 27, 6969-6975.	11.1	151
153	Graphene-Silicon Layered Structures on Single-Crystalline Ir(111) Thin Films. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400543.	1.9	12
154	Growth and Etching of Monolayer Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2015, 27, 4858-4864.	11.1	93
155	Design of High-Mobility Diketopyrrolopyrrole-Based Conjugated Copolymers for Organic Thin-Film Transistors. <i>Advanced Materials</i> , 2015, 27, 3589-3606.	11.1	350
156	Governing Rule for Dynamic Formation of Grain Boundaries in Grown Graphene. <i>ACS Nano</i> , 2015, 9, 5792-5798.	7.3	66
157	Highly sensitive thin film phototransistors based on a copolymer of benzodithiophene and diketopyrrolopyrrole. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1942-1948.	2.7	26
158	Enhancing the organic thin-film transistor performance of diketopyrrolopyrrole-benzodithiophene copolymers via the modification of both conjugated backbone and side chain. <i>Polymer Chemistry</i> , 2015, 6, 5369-5375.	1.9	20
159	Scalable Synthesis of Freestanding Sandwich-structured Graphene/Polyaniline/Graphene Nanocomposite Paper for Flexible All-Solid-State Supercapacitor. <i>Scientific Reports</i> , 2015, 5, 9359.	1.6	147
160	Organic printed photonics: From microring lasers to integrated circuits. <i>Science Advances</i> , 2015, 1, e1500257.	4.7	172
161	Transistors: Inkjet Printing Short-Channel Polymer Transistors with High Performance and Ultrahigh Photoresponsivity (Adv. Mater. 27/2014). <i>Advanced Materials</i> , 2014, 26, 4752-4752.	11.1	1
162	Field-Effect Transistors: Monolayer Hexagonal Boron Nitride Films with Large Domain Size and Clean Interface for Enhancing the Mobility of Graphene-Based Field-Effect Transistors (Adv. Mater. 10/2014). <i>Advanced Materials</i> , 2014, 26, 1474-1474.	11.1	3

#	ARTICLE	IF	CITATIONS
163	Small-Molecule Solar Cells with Fill Factors up to 0.75 via a Layer-by-Layer Solution Process. <i>Advanced Energy Materials</i> , 2014, 4, 1300626.	10.2	90
164	Layer-Stacking Growth and Electrical Transport of Hierarchical Graphene Architectures. <i>Advanced Materials</i> , 2014, 26, 3218-3224.	11.1	39
165	Self-Aligned Single-Crystal Graphene Grains. <i>Advanced Functional Materials</i> , 2014, 24, 1664-1670.	7.8	47
166	Facile Synthesis of 3D MnO <sub>2</sub> Graphene and Carbon Nanotube Graphene Composite Networks for High-Performance, Flexible, All-Solid-State Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2014, 4, 1400064.	10.2	360
167	Regioselective Deposition Method to Pattern Silver Electrodes Facilely and Efficiently with High Resolution: Towards All-Solution-Processed, High-Performance, Bottom-Contacted, Flexible, Polymer-Based Electronics. <i>Advanced Functional Materials</i> , 2014, 24, 3783-3789.	7.8	29
168	Monolayer Hexagonal Boron Nitride Films with Large Domain Size and Clean Interface for Enhancing the Mobility of Graphene-Based Field-Effect Transistors. <i>Advanced Materials</i> , 2014, 26, 1559-1564.	11.1	209
169	Near-Equilibrium Chemical Vapor Deposition of High-Quality Single-Crystal Graphene Directly on Various Dielectric Substrates. <i>Advanced Materials</i> , 2014, 26, 1348-1353.	11.1	132
170	Graphene: Near-Equilibrium Chemical Vapor Deposition of High-Quality Single-Crystal Graphene Directly on Various Dielectric Substrates ( <i>Adv. Mater.</i> 9/2014). <i>Advanced Materials</i> , 2014, 26, 1471-1471.	11.1	1
171	Graphene: Layer-Stacking Growth and Electrical Transport of Hierarchical Graphene Architectures ( <i>Adv. Mater.</i> 20/2014). <i>Advanced Materials</i> , 2014, 26, 3355-3355.	11.1	0
172	Benzo[2,3-b]thiophene semiconductors: synthesis, characterization and applications in organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8804-8810.	2.7	10
173	Naphthodithieno[3,2-b]thiophene-based semiconductors: synthesis, characterization, and device performance of field-effect transistors. <i>Organic Chemistry Frontiers</i> , 2014, 1, 333-337.	2.3	12
174	Heteroatom Substituted Organic/Polymeric Semiconductors and their Applications in Field-Effect Transistors. <i>Advanced Materials</i> , 2014, 26, 6898-6904.	11.1	75
175	Flexible, Low-Voltage and High-Performance Polymer Thin-Film Transistors and Their Application in Photo/Thermal Detectors. <i>Advanced Materials</i> , 2014, 26, 3631-3636.	11.1	107
176	Organic Electronics: Regioselective Deposition Method to Pattern Silver Electrodes Facilely and Efficiently with High Resolution: Towards All-Solution-Processed, High-Performance,		

#	ARTICLE	IF	CITATIONS
181	Solution-processed core-extended naphthalene diimides toward organic n-type and ambipolar semiconductors. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2688.	2.7	29
182	Bitrialkylsilylethynyl thienoacenes: synthesis, molecular conformation and crystal packing, and their field-effect properties. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6403.	2.7	6
183	Hierarchy of graphene wrinkles induced by thermal strain engineering. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	87
184	High-mobility, air stable bottom-contact n-channel thin film transistors based on <i>N,N'</i> -ditridecyl perylene diimide. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	18
185	Naphthalenediimide-Based Copolymers Incorporating Vinyl-Linkages for High-Performance Ambipolar Field-Effect Transistors and Complementary-Like Inverters under Air. <i>Chemistry of Materials</i> , 2013, 25, 3589-3596.	3.2	119
186	Effect of the Longer $\beta$ -Unsubstituted Oligothiophene Unit (6T and 7T) on the Organic Thin-Film Transistor Performances of Diketopyrrolopyrrole-Oligothiophene Copolymers. <i>Chemistry of Materials</i> , 2013, 25, 4290-4296.	3.2	49
187	Synthesis and Characterization of <i>N,N'</i> -Substituted 15,15,16,16'-Tetracyano-6,13-pentacenequinodimethane-2,3,9,10-tetracarboxylic Diimide Derivatives. <i>Asian Journal of Organic Chemistry</i> , 2013, 2, 220-224.		2
188	Perylene diimide copolymers with dithienothiophene and dithienopyrrole: Use in n-channel and ambipolar field-effect transistors. <i>Journal of Polymer Science Part A</i> , 2013, 51, 1550-1558.	2.5	19
189	Controllable Chemical Vapor Deposition Growth of Few Layer Graphene for Electronic Devices. <i>Accounts of Chemical Research</i> , 2013, 46, 106-115.	7.6	88
190	Wide band gap copolymers based on phthalimide: synthesis, characterization, and photovoltaic properties with 3.70% efficiency. <i>Polymer Chemistry</i> , 2013, 4, 2174.	1.9	28
191	An Acetylene-Containing Perylene Diimide Copolymer for High Mobility n-Channel Transistor in Air. <i>Macromolecules</i> , 2013, 46, 2152-2158.	2.2	66
192	New Donor-Acceptor Donor Molecules with Pechmann Dye as the Core Moiety for Solution-Processed Good-Performance Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2013, 25, 471-478.	3.2	81
193	Controllable unzipping for intramolecular junctions of graphene nanoribbons and single-walled carbon nanotubes. <i>Nature Communications</i> , 2013, 4, 1374.	5.8	125
194	Graphene Sheets: Gram-Scale Synthesis of Graphene Sheets by a Catalytic Arc-Discharge Method (Small) <i>Tj ETQn 0 0 0 rgBT /Overloc</i>	3.2	80
195	Synthesis and morphology transformation of single-crystal graphene domains based on activated carbon dioxide by chemical vapor deposition. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2990.	2.7	30
196	Fractal Etching of Graphene. <i>Journal of the American Chemical Society</i> , 2013, 135, 6431-6434.	6.6	140
197	Reduction of graphene oxide to highly conductive graphene by Lawesson's reagent and its electrical applications. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3104.	2.7	150
198	Graphene-coated silica as a highly efficient sorbent for residual organophosphorus pesticides in water. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1875-1884.	5.2	133

#	ARTICLE	IF	CITATIONS
199	Ultrasensitive and selective sensing of heavy metal ions with modified graphene. <i>Chemical Communications</i> , 2013, 49, 6492.	2.2	76
200	Synthesis and characterization of phenanthrocarbazole-diketopyrrolopyrrole copolymer for high-performance field-effect transistors. <i>Journal of Polymer Science Part A</i> , 2013, 51, 2208-2215.	2.5	18
201	A Solution-Processable Small Molecule Based on Benzodithiophene and Diketopyrrolopyrrole for High-Performance Organic Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 1166-1170.	10.2	203
202	Graphene: Controlled Synthesis of Large-Scale, Uniform, Vertically Standing Graphene for High-Performance Field Emitters ( <i>Adv. Mater.</i> 2/2013). <i>Advanced Materials</i> , 2013, 25, 292-292.	11.1	3
203	Synthesis, structure, optoelectronic properties of novel zinc Schiff-base complexes. <i>Science Bulletin</i> , 2013, 58, 2733-2740.	1.7	32
204	Self-organized graphene crystal patterns. <i>NPG Asia Materials</i> , 2013, 5, e36-e36.	3.8	153
205	One-Pot Microbial Method to Synthesize Dual-Doped Graphene and Its Use as High-Performance Electrocatalyst. <i>Scientific Reports</i> , 2013, 3, 3499.	1.6	53
206	Large-area, flexible imaging arrays constructed by light-charge organic memories. <i>Scientific Reports</i> , 2013, 3, 1080.	1.6	92
207	Substrate-Free Ultra-Flexible Organic Field-Effect Transistors and Five-Stage Ring Oscillators. <i>Advanced Materials</i> , 2013, 25, 5455-5460.	11.1	106
208	Nanoscale Materials: A General Approach for Fast Detection of Charge Carrier Type and Conductivity Difference in Nanoscale Materials ( <i>Adv. Mater.</i> 48/2013). <i>Advanced Materials</i> , 2013, 25, 6916-6916.	11.1	0
209	Graphene: Two-Stage Metal-Catalyst-Free Growth of High-Quality Polycrystalline Graphene Films on Silicon Nitride Substrates ( <i>Adv. Mater.</i> 7/2013). <i>Advanced Materials</i> , 2013, 25, 938-938.	11.1	4
210	Diketopyrrolopyrrole-Based $\pi$ -Conjugated Copolymer Containing $\beta^2$ -Unsubstituted Quintetthiophene Unit: A Promising Material Exhibiting High Hole-Mobility for Organic Thin-Film Transistors. <i>Chemistry of Materials</i> , 2012, 24, 4350-4356.	3.2	85
211	Effect of polymer chain conformation on field-effect transistor performance: synthesis and properties of two arylene imide based D-A copolymers. <i>Journal of Materials Chemistry</i> , 2012, 22, 14639.	6.7	37
212	Effects of structure-manipulated molecular stacking on solid-state optical properties and device performances. <i>Polymer Chemistry</i> , 2012, 3, 2832.	1.9	41
213	Phenanthro[1,10,9,8-cdefg]carbazole-containing copolymer for high performance thin-film transistors and polymer solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 3696.	6.7	26
214	A conjugated hyperbranched polymer constructed from carbazole and tetraphenylethylene moieties: convenient synthesis through one-pot $A_2 + B_4$ -Suzuki polymerization, aggregation-induced enhanced emission, and application as explosive chemosensors and PLEDs. <i>Journal of Materials Chemistry</i> , 2012, 22, 6374.	6.7	132
215	Synthesis and charge-transporting properties of electron-deficient CN <sub>2</sub> -fluorene based D-A copolymers. <i>Polymer Chemistry</i> , 2012, 3, 2170.	1.9	24
216	New tetrathiafulvalene fused-naphthalene diimides for solution-processable and air-stable p-type and ambipolar organic semiconductors. <i>Chemical Science</i> , 2012, 3, 2530.	3.7	67

#	ARTICLE	IF	CITATIONS
217	Novel global-like second-order nonlinear optical dendrimers: convenient synthesis through powerful click chemistry and large NLO effects achieved by using simple azo chromophore. <i>Chemical Science</i> , 2012, 3, 1256.	3.7	70
218	A stable solution-processed polymer semiconductor with record high-mobility for printed transistors. <i>Scientific Reports</i> , 2012, 2, 754.	1.6	800
219	Narrow band gap D $\pi$ A copolymer of indacenodithiophene and diketopyrrolopyrrole with deep HOMO level: Synthesis and application in field-effect transistors and polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2012, 50, 371-377.	2.5	35
220	Benzodifuran $\pi$ -conjugated well-defined $\pi$ -conjugated polymers for photovoltaic cells. <i>Journal of Polymer Science Part A</i> , 2012, 50, 2935-2943.	2.5	29
221	An acceptor $\pi$ -acceptor conjugated copolymer based on perylene diimide for high mobility n-channel transistor in air. <i>Journal of Polymer Science Part A</i> , 2012, 50, 4266-4271.	2.5	37
222	Conjugated Polymers of Rylene Diimide and Phenothiazine for n-Channel Organic Field-Effect Transistors. <i>Macromolecules</i> , 2012, 45, 4115-4121.	2.2	71
223	Semiconducting $\pi$ -Conjugated Systems in Field-Effect Transistors: A Material Odyssey of Organic Electronics. <i>Chemical Reviews</i> , 2012, 112, 2208-2267.	23.0	3,164
224	Synthesis and Characterization of a 2,4,6-Tri(2 $\pi$ -thienyl)pyridine-Based Conjugated Polymer for OFET Applications. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 917-923.	1.1	4
225	Organozinc Compounds as Effective Dielectric Modification Layers for Polymer Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2012, 22, 4139-4148.	7.8	12
226	Highly $\pi$ -Extended Copolymers with Diketopyrrolopyrrole Moieties for High-Performance Field-Effect Transistors. <i>Advanced Materials</i> , 2012, 24, 4618-4622.	11.1	707
227	Multilayer Graphene-Coated Atomic Force Microscopy Tips for Molecular Junctions ( <i>Adv. Mater.</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock	11.1	1
228	Uniform hexagonal graphene flakes and films grown on liquid copper surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7992-7996.	3.3	417
229	A structurally ordered thiophene-thiazole copolymer for organic thin-film transistors. <i>Science China Chemistry</i> , 2012, 55, 760-765.	4.2	5
230	Novel Functional Conjugative Hyperbranched Polymers with Aggregation-Induced Emission: Synthesis Through One-Pot A <sub>2</sub> +B <sub>4</sub> -Polymerization and Application as Explosive Chemosensors and PLEDs. <i>Macromolecular Rapid Communications</i> , 2012, 33, 164-171.	2.0	135
231	Inkjet Printing High-Resolution, Large-Area Graphene Patterns by Coffee-Ring Lithography. <i>Advanced Materials</i> , 2012, 24, 436-440.	11.1	154
232	New air-stable solution-processed organic n-type semiconductors based on sulfur-rich core-expanded naphthalene diimides. <i>Journal of Materials Chemistry</i> , 2011, 21, 18042.	6.7	39
233	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. <i>Chemistry of Materials</i> , 2011, 23, 1204-1215.	3.2	147
234	Solution-processable $\pi$ -conjugated dendrimers with hole-transporting, electroluminescent and fluorescent pattern properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 14663.	6.7	23

#	ARTICLE	IF	CITATIONS
235	Two-dimensional copolymers with Dâ€‘A type side chains for organic thin-film transistors: Synthesis and properties. <i>Polymer Chemistry</i> , 2011, 2, 2842.	1.9	5
236	Graphene: learning from carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2011, 21, 919-929.	6.7	43
237	Experimental Techniques for the Fabrication and Characterization of Organic Thin Films for Field-Effect Transistors. <i>Chemical Reviews</i> , 2011, 111, 3358-3406.	23.0	241
238	Chemical doping of graphene. <i>Journal of Materials Chemistry</i> , 2011, 21, 3335-3345.	6.7	1,433
239	Production of graphene nanospheres by annealing of graphene oxide in solution. <i>Nano Research</i> , 2011, 4, 705-711.	5.8	17
240	Ultrahigh density modulation of aligned single-walled carbon nanotube arrays. <i>Nano Research</i> , 2011, 4, 931-937.	5.8	17
241	Synthesis of large-area, few-layer graphene on iron foil by chemical vapor deposition. <i>Nano Research</i> , 2011, 4, 1208-1214.	5.8	120
242	New series of AB <sub>2</sub> -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. <i>Journal of Polymer Science Part A</i> , 2011, 49, 1977-1987.	2.5	45
243	High-Mobility Conjugated Polymers Based on Fused-Thiophene Building Blocks. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 428-443.	1.1	92
244	Macromol. Chem. Phys. 5/2011. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, .	1.1	0
245	Inkjet-Printed Organic Electrodes for Bottom-Contact Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2011, 21, 786-791.	7.8	29
246	All-Solution-Processed, High-Performance n-Channel Organic Transistors and Circuits: Toward Low-Cost Ambient Electronics. <i>Advanced Materials</i> , 2011, 23, 2448-2453.	11.1	172
247	Equiangular Hexagon-Shape-Controlled Synthesis of Graphene on Copper Surface. <i>Advanced Materials</i> , 2011, 23, 3522-3525.	11.1	173
248	Electrical Assembly and Reduction of Graphene Oxide in a Single Solution Step for Use in Flexible Sensors. <i>Advanced Materials</i> , 2011, 23, 4626-4630.	11.1	93
249	Organic Thin-Film Transistors: Interfacial Heterogeneity of Surface Energy in Organic Field-Effect Transistors ( <i>Adv. Mater.</i> 8/2011). <i>Advanced Materials</i> , 2011, 23, 1008-1008.	11.1	0
250	Phenyl-substituted fluorene-dimer cored anthracene derivatives: highly fluorescent and stable materials for high performance organic blue- and white-light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2010, 20, 3186.	6.7	52
251	The design and synthesis of fused thiophenes and their applications in organic field-effect transistors. <i>Science China Chemistry</i> , 2010, 53, 779-791.	4.2	11
252	High-Performance Phototransistors Based on Organic Microribbons Prepared by a Solution Self-Assembly Process. <i>Advanced Functional Materials</i> , 2010, 20, 1019-1024.	7.8	119

#	ARTICLE	IF	CITATIONS
253	An Alternative Approach to Constructing Solution Processable Multifunctional Materials: Their Structure, Properties, and Application in High-Performance Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2010, 20, 3125-3135.	7.8	34
254	Solvent-Assisted Re-annealing of Polymer Films for Solution-Processable Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2010, 22, 1273-1277.	11.1	54
255	Controllable Synthesis of Graphene and Its Applications. <i>Advanced Materials</i> , 2010, 22, 3225-3241.	11.1	375
256	Functional Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2010, 22, 4427-4447.	11.1	526
257	Organic FETs: Functional Organic Field-Effect Transistors ( <i>Adv. Mater.</i> 40/2010). <i>Advanced Materials</i> , 2010, 22, n/a-n/a.	11.1	0
258	New Carbazole-Based Hyperbranched Conjugated Polymer with Good Hole-Transporting Properties. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 1820-1825.	1.1	11
259	Threshold voltage control of copper phthalocyanine based organic field-effect transistors with a poly (N-vinylcarbazole) buffer layer. , 2010, , .		0
260	A polythiophene derivative with octyl diphenylamine-vinylene side chains: synthesis and its applications in field-effect transistors and solar cells. <i>Polymer Chemistry</i> , 2010, 1, 678.	1.9	18
261	Design, Synthesis, and Properties of Asymmetrical Heteroacene and Its Application in Organic Electronics. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10565-10571.	1.5	64
262	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. <i>Journal of the American Chemical Society</i> , 2010, 132, 3697-3699.	6.6	274
263	A Generalized Method for Evaluating the Metallic-to-Semiconducting Ratio of Separated Single-Walled Carbon Nanotubes by UV-vis-NIR Characterization. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12095-12098.	1.5	24
264	Engineering of the dielectric-semiconductor interface in organic field-effect transistors. <i>Journal of Materials Chemistry</i> , 2010, 20, 2599.	6.7	153
265	Solution processed organic field-effect transistors and their application in printed logic circuits. <i>Journal of Materials Chemistry</i> , 2010, 20, 7059.	6.7	82
266	Fabrication and characterization of molecular scale field-effect transistors. <i>Journal of Materials Chemistry</i> , 2010, 20, 2305.	6.7	16
267	Multibit Storage of Organic Thin-Film Field-Effect Transistors. <i>Advanced Materials</i> , 2009, 21, 1954-1959.	11.1	178
268	Improvements in Stability and Performance of N,N'-Dialkyl Perylene Diimide-Based n-Type Thin-Film Transistors. <i>Advanced Materials</i> , 2009, 21, 1631-1635.	11.1	90
269	Tuning reaction processes for the synthesis of micron and nanometer sized, single crystalline lamellae of copper 7,7,8,8-tetracyano-p-quinodimethane (Phase II) with large area. <i>Nano Research</i> , 2009, 2, 630-637.	5.8	13
270	Minimizing purification-induced defects in single-walled carbon nanotubes gives films with improved conductivity. <i>Nano Research</i> , 2009, 2, 865.	5.8	13



#	ARTICLE	IF	CITATIONS
271	Polymer gate dielectrics with self-assembled monolayers for high-mobility organic thin-film transistors based on copper phthalocyanine. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 777-780.	1.1	18
272	Linking polythiophene chains with vinylene bridges: A way to improve charge transport in polymer field-effect transistors. <i>Journal of Polymer Science Part A</i> , 2009, 47, 1381-1392.	2.5	11
273	Copolyfluorenes containing bridged triphenylamine or triphenylamine: Synthesis, characterization, and optoelectronic properties. <i>Journal of Polymer Science Part A</i> , 2009, 47, 3651-3661.	2.5	21
274	Poly(thienylenevinylene) with cyano substituent: Synthesis and application in field-effect transistor and polymer solar cell. <i>Journal of Polymer Science Part A</i> , 2009, 47, 4028-4036.	2.5	26
275	High performance polymer field-effect transistors based on polythiophene derivative with conjugated side chain. <i>Journal of Polymer Science Part A</i> , 2009, 47, 5304-5312.	2.5	14
276	Low bandgap conjugated copolymers based on fused thiophenes and benzothiadiazole: Synthesis and structure-property relationship study. <i>Journal of Polymer Science Part A</i> , 2009, 47, 5498-5508.	2.5	100
277	Synthesis and characterization of fullerene derivatives with perfluoroalkyl groups. <i>Journal of Materials Chemistry</i> , 2009, 19, 3258.	6.7	11
278	Synthesis of N-Doped Graphene by Chemical Vapor Deposition and Its Electrical Properties. <i>Nano Letters</i> , 2009, 9, 1752-1758.	4.5	2,822
279	Interface Engineering: An Effective Approach toward High-Performance Organic Field-Effect Transistors. <i>Accounts of Chemical Research</i> , 2009, 42, 1573-1583.	7.6	321
280	Wide-Energy-Gap Host Materials for Blue Phosphorescent Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2009, 21, 1333-1342.	3.2	77
281	Novel Functionalized Conjugated Polythiophene with Oxetane Substituents: Synthesis, Optical, Electrochemical, and Field-Effect Properties. <i>Macromolecules</i> , 2009, 42, 3222-3226.	2.2	51
282	Field dependent and high light sensitive organic phototransistors based on linear asymmetric organic semiconductor. <i>Applied Physics Letters</i> , 2009, 94, 143303.	1.5	48
283	Unusual tubular organization with crystal stacks from a new cyclic thiophene compound. <i>CrystEngComm</i> , 2009, 11, 2288.	1.3	1
284	New Azo Chromophore-Containing Conjugated Polymers: Facile Synthesis by Using "Click" Chemistry and Enhanced Nonlinear Optical Properties Through the Introduction of Suitable Isolation Groups. <i>Macromolecular Rapid Communications</i> , 2008, 29, 136-141.	2.0	61
285	Polyurethanes Containing Indole-Based Nonlinear Optical Chromophores: from Linear Chromophore to H-type. <i>Macromolecular Rapid Communications</i> , 2008, 29, 798-803.	2.0	31
286	High-Performance Organic Transistor Memory Elements with Steep Flanks of Hysteresis. <i>Advanced Functional Materials</i> , 2008, 18, 2593-2601.	7.8	81
287	Synthesis, Structure, Electronic State, and Luminescent Properties of Novel Blue-Light-Emitting Aryl-Substituted 9,9-Di(4-(di-p-tolyl)aminophenyl)fluorenes. <i>Advanced Functional Materials</i> , 2008, 18, 2335-2347.	7.8	29
288	High-Performance Organic Field-Effect Transistors with Low-Cost Copper Electrodes. <i>Advanced Materials</i> , 2008, 20, 1286-1290.	11.1	91

#	ARTICLE	IF	CITATIONS
289	High-Performance Air-Stable Bipolar Field-Effect Transistors of Organic Single-Crystalline Ribbons with an Air-Gap Dielectric. <i>Advanced Materials</i> , 2008, 20, 1511-1515.	11.1	157
290	Patterned Graphene as Source/Drain Electrodes for Bottom-Contact Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2008, 20, 3289-3293.	11.1	373
291	The Intramolecular Junctions of Carbon Nanotubes. <i>Advanced Materials</i> , 2008, 20, 2815-2841.	11.1	126
292	Inside Front Cover: The Intramolecular Junctions of Carbon Nanotubes (Adv. Mater. 15/2008). <i>Advanced Materials</i> , 2008, 20, NA-NA.	11.1	0
293	Synthesis and characterization of a quinoxaline compound containing polyphenylphenyl and strong electron-accepting groups, and its multiple applications in electroluminescent devices. <i>Journal of Materials Chemistry</i> , 2008, 18, 299-305.	6.7	34
294	A non-planar pentaphenylbenzene functionalized benzo[2,1,3]thiadiazole derivative as a novel red molecular emitter for non-doped organic light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2008, 18, 2709.	6.7	30
295	Anthra[2,3- <i>b</i> ]benzo[ <i>d</i> ]thiophene: An Air-Stable Asymmetric Organic Semiconductor with High Mobility at Room Temperature. <i>Chemistry of Materials</i> , 2008, 20, 4188-4190.	3.2	65
296	Synthesis and properties of fluorene or carbazole-based and dicyanovinyl-capped n-type organic semiconductors. <i>Journal of Materials Chemistry</i> , 2008, 18, 1131.	6.7	42
297	Photophysical properties of polyphenylphenyl compounds in aqueous solutions and application of their nanoparticles for nucleobase sensing. <i>Journal of Materials Chemistry</i> , 2008, 18, 2555.	6.7	32
298	Electrochemistry and Electrogenerated Chemiluminescence of Quinoxaline Derivatives. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20027-20032.	1.5	13
299	Novel copolymers incorporating dithieno[3,2- <i>b</i> :2',3'- <i>d</i> ]thiophene moieties for air-stable and high performance organic field-effect transistors. <i>Journal of Materials Chemistry</i> , 2008, 18, 3426.	6.7	49
300	Organic thin-film transistors of phthalocyanines. <i>Pure and Applied Chemistry</i> , 2008, 80, 2231-2240.	0.9	69
301	Organic field-effect transistors based on tetrathiafulvalene derivatives. <i>Pure and Applied Chemistry</i> , 2008, 80, 2405-2423.	0.9	20
302	New semiconductors based on triphenylamine with macrocyclic architecture: synthesis, properties and applications in OFETs. <i>Journal of Materials Chemistry</i> , 2007, 17, 4483.	6.7	36
303	Linear benzene-fused bis(tetrathiafulvalene) compounds for solution processed organic field-effect transistors. <i>Journal of Materials Chemistry</i> , 2007, 17, 736-743.	6.7	51
304	Highly efficient blue electrophosphorescent devices with a new series of host materials: polyphenylene-dendronized oxadiazole derivatives. <i>Journal of Materials Chemistry</i> , 2007, 17, 3788.	6.7	28
305	Synthesis and Device Integration of Carbon Nanotube/Silica Core-Shell Nanowires. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7661-7665.	1.5	19
306	First Synthesis of 2,3,6,7-Tetrabromonaphthalene Diimide. <i>Organic Letters</i> , 2007, 9, 3917-3920.	2.4	93

#	ARTICLE	IF	CITATIONS
307	Control Synthesis of Silver Nanosheets, Chainlike Sheets, and Microwires via a Simple Solvent <sup>4</sup> Thermal Method. <i>Crystal Growth and Design</i> , 2007, 7, 900-904.	1.4	63
308	Phase dependence of single crystalline transistors of tetrathiafulvalene. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	82
309	A novel air-stable n-type organic semiconductor: 4,4'-bis[(6,6'-diphenyl)-2,2-difluoro-1,3,2-dioxaborine] and its application in organic ambipolar field-effect transistors. <i>Journal of Materials Chemistry</i> , 2006, 16, 4499-4503.	6.7	55
310	Advancing conjugated polymers into nanometer-scale devices. <i>Pure and Applied Chemistry</i> , 2006, 78, 1803-1822.	0.9	9
311	Progresses in organic field-effect transistors and molecular electronics. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2006, 1, 357-363.	0.4	1
312	Synthesis and characterization of novel phenyl-substituted poly(p-phenylene vinylene) derivatives. <i>Journal of Applied Polymer Science</i> , 2005, 96, 1259-1266.	1.3	3
313	Synthesis and properties of new orange red light-emitting hyperbranched and linear polymers derived from 3,5-dicyano-2,4,6-tristyrylpyridine. <i>Journal of Polymer Science Part A</i> , 2005, 43, 493-504.	2.5	17
314	Synthesis and properties of new poly(terfluorene) derivatives containing spirobifluorene and electron transport groups for stable blue electroluminescence. <i>Journal of Polymer Science Part A</i> , 2005, 43, 4517-4529.	2.5	15
315	Advances in organic field-effect transistors. <i>Journal of Materials Chemistry</i> , 2005, 15, 53.	6.7	394
316	Organic thin film transistors based on stable amorphous ladder tetraazapentacenes semiconductors. <i>Journal of Materials Chemistry</i> , 2005, 15, 4894.	6.7	65
317	Polymer light-emitting electrochemical cell based on a novel poly(aryleneethynylene) consisting of ethynylfluorene and tetraphenyldiaminobiphenyl units. <i>Polymers for Advanced Technologies</i> , 2004, 15, 70-74.	1.6	7
318	Optical-limiting properties of poly(arylene ethynylenes) containing thiophene ring. <i>Journal of Applied Polymer Science</i> , 2004, 93, 131-135.	1.3	6
319	Multiwalled nanotubes with intramolecular junctions (CN <sub>x</sub> /C): Preparation, rectification, logic gates, and application. <i>Applied Physics Letters</i> , 2004, 84, 4932-4934.	1.5	28
320	Rheological Behavior of Spinning Dope of Multiwalled Carbon Nanotube/Polyacrylonitrile Composites. <i>Macromolecular Symposia</i> , 2004, 216, 189-194.	0.4	12
321	Phthalocyanine Monolayer-Modified Gold Substrates as Efficient Anodes for Organic Light-Emitting Diodes. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12639-12642.	1.2	33
322	Controllable preparation of patterns of aligned carbon nanotubes on metals and metal-coated silicon substrates. <i>Journal of Materials Chemistry</i> , 2003, 13, 1124-1126.	6.7	44
323	High-mobility thin-film transistors based on aligned carbon nanotubes. <i>Applied Physics Letters</i> , 2003, 83, 150-152.	1.5	53
324	High performance field-effect transistors made of a multiwall CN <sub>x</sub> /C nanotube intramolecular junction. <i>Applied Physics Letters</i> , 2003, 83, 4824-4826.	1.5	23

#	ARTICLE	IF	CITATIONS
325	New Series of Blue-Emitting and Electron-Transporting Copolymers Based on Fluorene. <i>Macromolecules</i> , 2002, 35, 2529-2537.	2.2	235
326	Super-Hydrophobicity of Large-Area Honeycomb-Like Aligned Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2002, 106, 9274-9276.	1.2	289
327	Immobilization of tetra-tert-butylphthalocyanines on carbon nanotubes: a first step towards the development of new nanomaterials. <i>Journal of Materials Chemistry</i> , 2002, 12, 1636-1639.	6.7	156
328	Photoconductivity of poly(N-vinylcarbazole) (PVK) doped with the metallofullerene Dy@C82 and the fullerenes C84 and C60. <i>Israel Journal of Chemistry</i> , 2001, 41, 45-50.	1.0	2
329	Synthesis and properties of crown ether containing poly(p-phenylenevinylene). <i>Journal of Materials Chemistry</i> , 2001, 11, 3063-3067.	6.7	29
330	Synthesis and electroluminescence of poly(aryleneethynylene)s based on fluorene containing hole-transport units. <i>Journal of Materials Chemistry</i> , 2001, 11, 1606-1611.	6.7	47
331	Title is missing!. <i>Journal of Materials Chemistry</i> , 2001, 11, 2971-2973.	6.7	13
332	Coordination induced monolayer formation and fabrication of a novel conductive Langmuir-Schaefer film of benzimidazole-containing Schiff bases without a substituted alkyl chain. <i>Journal of Materials Chemistry</i> , 2001, 11, 1924-1927.	6.7	5
333	Pillar-shaped structures and patterns of three-dimensional carbon nanotube alignments. <i>Chemical Communications</i> , 2001, , 751-752.	2.2	21
334	Efficient blue emission from siloles. <i>Journal of Materials Chemistry</i> , 2001, 11, 2974-2978.	6.7	590
335	Synthesis and characterization of a new conjugated polymer containing cyano substituents for light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2001, 11, 1327-1331.	6.7	21
336	Large Femtosecond Third-Order Nonlinear Optical Response in a Novel Donor-Acceptor Copolymer Consisting of Ethynylfluorene and Tetraphenyldiaminobiphenyl Units. <i>Chemistry of Materials</i> , 2001, 13, 1540-1544.	3.2	48
337	Aggregation-induced emission of 1-methyl-1,2,3,4,5-pentaphenylsilole. <i>Chemical Communications</i> , 2001, , 1740-1741.	2.2	6,387
338	Second Harmonic Generation in Langmuir-Blodgett Films of a Novel Phenylhydrazone Dye. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 337, 425-428.	0.3	0
339	Electron structures and non-linear optical properties of tert-butyl-nitro-phthalocyanines. <i>Science Bulletin</i> , 1999, 44, 694-698.	1.7	3
340	An Organic Field-Effect-Transistor Based on Langmuir-Blodgett Films of a New Asymmetrically Substituted Phthalocyanine, 1,8-Naphthaimide-Tri-Tert-Butylphthalocyanine. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 337, 511-514.	0.3	5
341	Langmuir-Blodgett Films and Second-Order Nonlinear Optical Property of a Phthalocyanine-Fullerene Dyad. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 337, 429-432.	0.3	2
342	Multilayer Organic Light-Emitting Diodes with Phthalocyanine Film as Hole-Injection Layer. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 337, 93-96.	0.3	1

#	ARTICLE	IF	CITATIONS
343	Preparation and electrical conductivity of Langmuir-Blodgett films of poly(3-alkylthiophene)s. Journal of Applied Polymer Science, 1998, 69, 1-6.	1.3	14
344	Study on LB Films of Novel Fullerene Derivatives. Molecular Crystals and Liquid Crystals, 1997, 294, 7-10.	0.3	0
345	The ultrafast intramolecular dynamics of phthalocyanine and porphyrin derivatives. Journal of Chemical Physics, 1996, 105, 5377-5379.	1.2	55
346	Synthesis and characterization of a novel unsymmetrical metal-free phthalocyanine with donor-acceptor substituents. Journal of Heterocyclic Chemistry, 1994, 31, 1017-1020.	1.4	32
347	Red Fluorescent Organic Light-Emitting Diodes with Low-Efficiency Roll-Off. Energy & Fuels, 0, , .	2.5	3
348	Realizing Diketopyrrolopyrrole Polymer-Based Uniform Large-Area Transistors for Active Circuit via Protonic Acid Mediated Molecular Self-Assembly. Advanced Electronic Materials, 0, , 2100881.	2.6	3
349	Highly sensitive solid chemical sensor for veterinary drugs based on the synergism between hydrogen bonds and low-dimensional polymer networks. Journal of Materials Chemistry C, 0, , .	2.7	0
350	Vapor-solid interfacial reaction and polymerization for wafer-scale uniform and ultrathin two-dimensional organic films. Science China Materials, 0, , 1.	3.5	0
351	The Impact of Benzothiadiazole on the Optoelectronic Performance of Polymer/PC <sub>71</sub> BM Blend Films and Their Application in NIR Phototransistors. Advanced Electronic Materials, 0, , 2101297.	2.6	4
352	BN-Embedded V-Shaped Polycyclic Aromatic Hydrocarbons Exhibiting Tunable Molecular Packing and Supramolecular Interactions. Organic Letters, 0, , .	2.4	6