

Yunlong guo

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

188
papers

12,616
citations

60
h-index

109
g-index

202
ext. papers

13,932
ext. citations

13
avg, IF

6.49
L-index

#	Paper	IF	Citations
188	A stable solution-processed polymer semiconductor with record high-mobility for printed transistors. <i>Scientific Reports</i> , 2012 , 2, 754	4.9	733
187	Highly Extended copolymers with diketopyrrolopyrrole moieties for high-performance field-effect transistors. <i>Advanced Materials</i> , 2012 , 24, 4618-22	24	649
186	25th anniversary article: recent advances in n-type and ambipolar organic field-effect transistors. <i>Advanced Materials</i> , 2013 , 25, 5372-91	24	541
185	Functional organic field-effect transistors. <i>Advanced Materials</i> , 2010 , 22, 4427-47	24	481
184	One-pot self-assembled three-dimensional TiO ₂ -graphene hydrogel with improved adsorption capacities and photocatalytic and electrochemical activities. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2227-33	9.5	355
183	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, 7992-6	11.5	351
182	Patterned Graphene as Source/Drain Electrodes for Bottom-Contact Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2008 , 20, 3289-3293	24	339
181	Oxygen-aided synthesis of polycrystalline graphene on silicon dioxide substrates. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17548-51	16.4	285
180	Low temperature growth of highly nitrogen-doped single crystal graphene arrays by chemical vapor deposition. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11060-3	16.4	262
179	Diketopyrrolopyrrole-containing quinoidal small molecules for high-performance, air-stable, and solution-processable n-channel organic field-effect transistors. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4084-7	16.4	257
178	Air-Stable and Solution-Processable Perovskite Photodetectors for Solar-Blind UV and Visible Light. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 535-9	6.4	249
177	Experimental techniques for the fabrication and characterization of organic thin films for field-effect transistors. <i>Chemical Reviews</i> , 2011 , 111, 3358-406	68.1	215
176	A Ferroelectric/Electrochemical Modulated Organic Synapse for Ultraflexible, Artificial Visual-Perception System. <i>Advanced Materials</i> , 2018 , 30, e1803961	24	191
175	Chemical Pathways Connecting Lead(II) Iodide and Perovskite via Polymeric Plumbate(II) Fiber. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15907-14	16.4	180
174	Insight into High-Performance Conjugated Polymers for Organic Field-Effect Transistors. <i>Chem</i> , 2018 , 4, 2748-2785	16.2	176
173	All-solution-processed, high-performance n-channel organic transistors and circuits: toward low-cost ambient electronics. <i>Advanced Materials</i> , 2011 , 23, 2448-53	24	164
172	Multibit Storage of Organic Thin-Film Field-Effect Transistors. <i>Advanced Materials</i> , 2009 , 21, 1954-1959	24	164

171	Equiangular hexagon-shape-controlled synthesis of graphene on copper surface. <i>Advanced Materials</i> , 2011 , 23, 3522-5	24	162
170	High-Performance, Air-Stable Field-Effect Transistors Based on Heteroatom-Substituted Naphthalenediimide-Benzothiadiazole Copolymers Exhibiting Ultrahigh Electron Mobility up to 8.5 cm ² V ⁻¹ s ⁻¹ . <i>Advanced Materials</i> , 2017 , 29, 1602410	24	158
169	Single-Walled Carbon Nanotube Film as Electrode in Indium-Free Planar Heterojunction Perovskite Solar Cells: Investigation of Electron-Blocking Layers and Dopants. <i>Nano Letters</i> , 2015 , 15, 6665-71	11.5	151
168	Enhancement in the efficiency of an organic/inorganic hybrid solar cell with a doped P3HT hole-transporting layer on a void-free perovskite active layer. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13827-13830	13	150
167	Polymer Stabilization of Lead(II) Perovskite Cubic Nanocrystals for Semitransparent Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1502317	21.8	140
166	Inkjet printing high-resolution, large-area graphene patterns by coffee-ring lithography. <i>Advanced Materials</i> , 2012 , 24, 436-40	24	138
165	Self-organized graphene crystal patterns. <i>NPG Asia Materials</i> , 2013 , 5, e36-e36	10.3	137
164	Porphyridithienothiophene π -Conjugated Copolymers: Synthesis and Their Applications in Field-Effect Transistors and Solar Cells. <i>Macromolecules</i> , 2008 , 41, 6895-6902	5.5	137
163	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	7.1	127
162	Fractal etching of graphene. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6431-4	16.4	123
161	High-Performance Phototransistors Based on Organic Microribbons Prepared by a Solution Self-Assembly Process. <i>Advanced Functional Materials</i> , 2010 , 20, 1019-1024	15.6	116
160	Near-equilibrium chemical vapor deposition of high-quality single-crystal graphene directly on various dielectric substrates. <i>Advanced Materials</i> , 2014 , 26, 1348-53	24	115
159	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	13	114
158	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	9.6	111
157	Production of graphite chloride and bromide using microwave sparks. <i>Scientific Reports</i> , 2012 , 2, 662	4.9	110
156	Synthesis of large-area, few-layer graphene on iron foil by chemical vapor deposition. <i>Nano Research</i> , 2011 , 4, 1208-1214	10	106
155	Exploration of Near-Infrared Organic Photodetectors. <i>Chemistry of Materials</i> , 2019 , 31, 6359-6379	9.6	101
154	Two-stage metal-catalyst-free growth of high-quality polycrystalline graphene films on silicon nitride substrates. <i>Advanced Materials</i> , 2013 , 25, 992-7	24	99

153	Production of high-quality carbon nanoscrolls with microwave spark assistance in liquid nitrogen. <i>Advanced Materials</i> , 2011 , 23, 2460-3	24	98
152	Flexible, low-voltage and high-performance polymer thin-film transistors and their application in photo/thermal detectors. <i>Advanced Materials</i> , 2014 , 26, 3631-6	24	97
151	Low bandgap π -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	97
150	Local Time-Dependent Charging in a Perovskite Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19402-9	9.5	95
149	Isoindigo-Based Polymers with Small Effective Masses for High-Mobility Ambipolar Field-Effect Transistors. <i>Advanced Materials</i> , 2017 , 29, 1702115	24	91
148	Substrate-free ultra-flexible organic field-effect transistors and five-stage ring oscillators. <i>Advanced Materials</i> , 2013 , 25, 5455-60	24	91
147	Asymmetrical Small Molecule Acceptor Enabling Nonfullerene Polymer Solar Cell with Fill Factor Approaching 79%. <i>ACS Energy Letters</i> , 2018 , 3, 1760-1768	20.1	90
146	High-Performance Organic Field-Effect Transistors with Low-Cost Copper Electrodes. <i>Advanced Materials</i> , 2008 , 20, 1286-1290	24	85
145	Large-area, flexible imaging arrays constructed by light-charge organic memories. <i>Scientific Reports</i> , 2013 , 3, 1080	4.9	84
144	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	16.4	83
143	Bis-Diketopyrrolopyrrole Moiety as a Promising Building Block to Enable Balanced Ambipolar Polymers for Flexible Transistors. <i>Advanced Materials</i> , 2017 , 29, 1606162	24	82
142	Controllable chemical vapor deposition growth of few layer graphene for electronic devices. <i>Accounts of Chemical Research</i> , 2013 , 46, 106-15	24.3	82
141	Electrical assembly and reduction of graphene oxide in a single solution step for use in flexible sensors. <i>Advanced Materials</i> , 2011 , 23, 4626-30	24	81
140	Design and effective synthesis methods for high-performance polymer semiconductors in organic field-effect transistors. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2423-2456	7.8	80
139	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	24	80
138	Sulfamic Acid-Catalyzed Lead Perovskite Formation for Solar Cell Fabrication on Glass or Plastic Substrates. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5410-6	16.4	78
137	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	9.6	76
136	When Flexible Organic Field-Effect Transistors Meet Biomimetics: A Prospective View of the Internet of Things. <i>Advanced Materials</i> , 2020 , 32, e1901493	24	75

135	Inkjet printing short-channel polymer transistors with high-performance and ultrahigh photoresponsivity. <i>Advanced Materials</i> , 2014 , 26, 4683-9	24	74
134	Diketopyrrolopyrrole-Based EConjugated Copolymer Containing EUnsubstituted Quintetthiophene Unit: A Promising Material Exhibiting High Hole-Mobility for Organic Thin-Film Transistors. <i>Chemistry of Materials</i> , 2012 , 24, 4350-4356	9.6	74
133	A Retina-Like Dual Band Organic Photosensor Array for Filter-Free Near-Infrared-to-Memory Operations. <i>Advanced Materials</i> , 2017 , 29, 1701772	24	73
132	High-Performance Organic Transistor Memory Elements with Steep Flanks of Hysteresis. <i>Advanced Functional Materials</i> , 2008 , 18, 2593-2601	15.6	73
131	Ultrasensitive and selective sensing of heavy metal ions with modified graphene. <i>Chemical Communications</i> , 2013 , 49, 6492-4	5.8	71
130	Anthra[2,3-b]benzo[d]thiophene: An Air-Stable Asymmetric Organic Semiconductor with High Mobility at Room Temperature. <i>Chemistry of Materials</i> , 2008 , 20, 4188-4190	9.6	64
129	New tetrathiafulvalene fused-naphthalene diimides for solution-processible and air-stable p-type and ambipolar organic semiconductors. <i>Chemical Science</i> , 2012 , 3, 2530	9.4	60
128	Citric Acid Modulated Growth of Oriented Lead Perovskite Crystals for Efficient Solar Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9598-9604	16.4	59
127	Trifluoromethyltriphenodioxazine: air-stable and high-performance n-type semiconductor. <i>Organic Letters</i> , 2008 , 10, 3025-8	6.2	58
126	High quality graphene with large flakes exfoliated by oleyl amine. <i>Chemical Communications</i> , 2010 , 46, 5728-30	5.8	57
125	An expedient synthesis of fused heteroacenes bearing a pyrrolo[3,2-b]pyrrole core. <i>Chemical Communications</i> , 2012 , 48, 12225-7	5.8	54
124	Single-Crystal Microribbons of an Indolo[3,2-b]carbazole Derivative by Solution-Phase Self-Assembly with Novel Mechanical, Electrical, and Optical Properties. <i>Advanced Materials</i> , 2008 , 20, 4835-4839	24	54
123	Interfacial heterogeneity of surface energy in organic field-effect transistors. <i>Advanced Materials</i> , 2011 , 23, 1009-14	24	53
122	Solvent-assisted re-annealing of polymer films for solution-processable organic field-effect transistors. <i>Advanced Materials</i> , 2010 , 22, 1273-7	24	51
121	General route toward patterning of graphene oxide by a combination of wettability modulation and spin-coating. <i>ACS Nano</i> , 2010 , 4, 5749-54	16.7	50
120	A New Carbazole-Constructed Hyperbranched Polymer: Convenient One-Pot Synthesis, Hole-Transporting Ability, and Field-Effect Transistor Properties. <i>Advanced Functional Materials</i> , 2009 , 19, 2677-2683	15.6	50
119	Investigation of Electrode Electrochemical Reactions in CH NH PbBr Perovskite Single-Crystal Field-Effect Transistors. <i>Advanced Materials</i> , 2019 , 31, e1902618	24	48
118	One-pot microbial method to synthesize dual-doped graphene and its use as high-performance electrocatalyst. <i>Scientific Reports</i> , 2013 , 3, 3499	4.9	48

117	Synthesis and properties of the anti and syn isomers of dibenzothieno[b,d]pyrrole. <i>Chemical Communications</i> , 2008 , 6227-9	5.8	48
116	Fast Deposition of Aligning Edge-On Polymers for High-Mobility Ambipolar Transistors. <i>Advanced Materials</i> , 2019 , 31, e1805761	24	48
115	Morphology optimization for the fabrication of high mobility thin-film transistors. <i>Advanced Materials</i> , 2011 , 23, 3128-33	24	47
114	Field dependent and high light sensitive organic phototransistors based on linear asymmetric organic semiconductor. <i>Applied Physics Letters</i> , 2009 , 94, 143303	3-4	46
113	Active Morphology Control for Concomitant Long Distance Spin Transport and Photoresponse in a Single Organic Device. <i>Advanced Materials</i> , 2016 , 28, 2609-15	24	46
112	A diketopyrrolopyrrole-thiazolothiazole copolymer for high performance organic field-effect transistors. <i>Chemical Communications</i> , 2013 , 49, 1998-2000	5.8	45
111	Design and synthesis of high performance π -conjugated materials through antiaromaticity and quinoid strategy for organic field-effect transistors. <i>Materials Science and Engineering Reports</i> , 2019 , 136, 13-26	30.9	45
110	Dibenzoannelated tetrathienoacene: synthesis, characterization, and applications in organic field-effect transistors. <i>Organic Letters</i> , 2012 , 14, 3300-3	6.2	44
109	Self-Aligned Single-Crystal Graphene Grains. <i>Advanced Functional Materials</i> , 2014 , 24, 1664-1670	15.6	43
108	Dithiazole-fused naphthalene diimides toward new n-type semiconductors. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1087-1092	7.1	43
107	Gram-scale synthesis of graphene sheets by a catalytic arc-discharge method. <i>Small</i> , 2013 , 9, 1330-5	11	43
106	Novel Functionalized Conjugated Polythiophene with Oxetane Substituents: Synthesis, Optical, Electrochemical, and Field-Effect Properties. <i>Macromolecules</i> , 2009 , 42, 3222-3226	5.5	43
105	Extended π -conjugated molecules derived from naphthalene diimides toward organic emissive and semiconducting materials. <i>Journal of Organic Chemistry</i> , 2013 , 78, 2926-34	4.2	42
104	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		38
103	n-Type doping for efficient polymeric electron-transporting layers in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18852-18856	13	37
102	Top-gate organic thin-film transistors constructed by a general lamination approach. <i>Advanced Materials</i> , 2010 , 22, 3537-41	24	37
101	Solution-Processed Organic Field-Effect Transistors Based on Polythiophene Derivatives with Conjugated Bridges as Linking Chains. <i>Chemistry of Materials</i> , 2007 , 19, 3361-3363	9.6	37
100	A Flexible Acetylcholinesterase-Modified Graphene for Chiral Pesticide Sensor. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14643-14649	16.4	36

99	Fluorographene nanosheets with broad solvent dispersibility and their applications as a modified layer in organic field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 20992-1000	3.6	36
98	Design, Synthesis, and Properties of Asymmetrical Heteroacene and Its Application in Organic Electronics. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10565-10571	3.8	35
97	Efficient modification of Cu electrode with nanometer-sized copper tetracyanoquinodimethane for high performance organic field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 2302-7	3.6	35
96	Chemical Formation and Multiple Applications of Organic-Inorganic Hybrid Perovskite Materials. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1406-1414	16.4	35
95	Synthesis, self-assembly, and solution-processed nanoribbon field-effect transistor of a fused-nine-ring thienoacene. <i>Chemical Communications</i> , 2010 , 46, 2841-3	5.8	33
94	Engineering of Amorphous Polymeric Insulators for Organic Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700157	6.4	32
93	Advances in flexible organic field-effect transistors and their applications for flexible electronics. <i>Npj Flexible Electronics</i> , 2022 , 6,	10.7	32
92	Effect of dielectric layers on device stability of pentacene-based field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 7268-73	3.6	31
91	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	15.6	29
90	Lowering programmed voltage of organic memory transistors based on polymer gate electrets through heterojunction fabrication. <i>Organic Electronics</i> , 2012 , 13, 1969-1974	3.5	29
89	Solution-processed core-extended naphthalene diimides toward organic n-type and ambipolar semiconductors. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2688	7.1	28
88	Fused-seven-ring anthracene derivative with two sulfur bridges for high performance red organic light-emitting diodes. <i>Chemical Communications</i> , 2010 , 46, 8573-5	5.8	28
87	Multilayer graphene-coated atomic force microscopy tips for molecular junctions. <i>Advanced Materials</i> , 2012 , 24, 3482-5	24	27
86	Synthesis, Structures, and Properties of Thieno[3,2-b]thiophene and Dithiophene Bridged Isoindigo Derivatives and Their Organic Field-effect Transistors Performance. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22655-22662	3.8	26
85	Three-Dimensionally Homoconjugated Carbon-Bridged Oligophenylenevinylene for Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10897-904	16.4	26
84	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 & Interfaces</i> , 2019 , 11, 15837-15844	9.5	25
83	Low Band Gap Donor-Acceptor Conjugated Polymers with Indanone-Condensed Thiadiazolo[3,4-g]quinoxaline Acceptors. <i>Macromolecules</i> , 2019 , 52, 6149-6159	5.5	25
82	Synthesis and Characterization of Novel Semiconductors Based on Thieno[3,2-b][1]benzothiophene Cores and Their Applications in the Organic Thin-Film Transistors. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23984-23991	3.8	25

81	Asymmetrical fluorene[2,3-b]benzo[d]thiophene derivatives: synthesis, solid-state structures, and application in solution-processable organic light-emitting diodes. <i>Chemistry - A European Journal</i> , 2009 , 15, 8275-82	4.8	25
80	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		24
79	High-Mobility Organic Light-Emitting Semiconductors and Its Optoelectronic Devices. <i>Small Structures</i> , 2021 , 2, 2000083	8.7	24
78	Dicyanovinyl heterotetracenes: synthesis, solid-state structures, and photophysical properties. <i>Journal of Organic Chemistry</i> , 2009 , 74, 7322-7	4.2	22
77	Triple Acceptors in a Polymeric Architecture for Balanced Ambipolar Transistors and High-Gain Inverters. <i>Advanced Materials</i> , 2018 , 30, e1801951	24	22
76	Tuning the light response of organic field-effect transistors using fluorographene nanosheets as an interface modification layer. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6484	7.1	21
75	Tuning the threshold voltage by inserting a thin molybdenum oxide layer into organic field-effect transistors. <i>Applied Physics Letters</i> , 2007 , 91, 263502	3.4	21
74	Acid-Responsive Conductive Nanofiber of Tetrabenzoporphyrin Made by Solution Processing. <i>Journal of the American Chemical Society</i> , 2018 , 140, 62-65	16.4	21
73	Undoped, red organic light-emitting diodes based on a N,N,N,N-tetraphenylbenzidine (TPD) derivative as red emitter with a triphenylamine derivative as hole-transporting layer. <i>Dyes and Pigments</i> , 2010 , 84, 203-207	4.6	20
72	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 ² V ⁻¹ s ⁻¹ . <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2892-2898	7.1	19
71	Copolymers of Bis-Diketopyrrolopyrrole and Benzothiadiazole Derivatives for High-Performance Ambipolar Field-Effect Transistors on Flexible Substrates. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 25858-25865	9.5	19
70	Mobility of long-lived fullerene radical in solid state and nonlinear temperature dependence. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3366-9	16.4	19
69	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
68	A simple nickel bis(dithiolene) complex as an excellent n-type molecular semiconductor for field-effect transistors. <i>Chemical Communications</i> , 2012 , 48, 9965-7	5.8	19
67	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	11	19
66	NIR polymers and phototransistors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 13049-13058	7.1	19
65	Catalytic synthesis and structural characterizations of a highly crystalline polyphenylacetylene nanobelt array. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12922-3	16.4	18
64	Organic Field-Effect Transistors with a Low Pinch-Off Voltage and a Controllable Threshold Voltage. <i>Advanced Materials</i> , 2008 , 20, 611-615	24	18

63	Application of organic field-effect transistors in memory. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 2845-2862		17
62	Production of graphene nanospheres by annealing of graphene oxide in solution. <i>Nano Research</i> , 2011 , 4, 705-711	10	17
61	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	16
60	Synthesis, Self-Assembly and Solution-Processed Field-Effect Transistors of a Liquid Crystalline Bis(dithienothiophene) Derivative. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16232-16237	3.8	16
59	High-Performance Ambipolar Polymers Based on Electron-Withdrawing Group Substituted Bay-Annulated Indigo. <i>Advanced Functional Materials</i> , 2019 , 29, 1804839	15.6	16
58	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	6.6	16
57	High-performance field-effect transistors based on furan-containing diketopyrrolopyrrole copolymer under a mild annealing temperature. <i>Journal of Polymer Science Part A</i> , 2014 , 52, 1970-1977	2.5	15
56	High-mobility, air stable bottom-contact n-channel thin film transistors based on N,N'-ditridecyl perylene diimide. <i>Applied Physics Letters</i> , 2013 , 103, 203303	3.4	15
55	Ultrahigh density modulation of aligned single-walled carbon nanotube arrays. <i>Nano Research</i> , 2011 , 4, 931-937	10	15
54	Flexible Monolayer Molecular Crystal-Field Effect Transistors for Ultrasensitive and Selective Detection of Dimethoate. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000579	6.4	15
53	Controllable fabrication of ultrathin free-standing graphene films. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014 , 372, 20130017	3	14
52	Effect of substituents on electronic properties, thin film structure and device performance of dithienothiophene-phenylene cooligomers. <i>Thin Solid Films</i> , 2009 , 517, 2968-2973	2.2	14
51	Effects of water on the forward and backward conversions of lead(II) iodide to methylammonium lead perovskite. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23815-23821	13	13
50	Highly Sensitive Field-Effect Ammonia/Amine Sensors with Low Driving Voltage Based on Low Bandgap Polymers. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800025	6.4	13
49	Selective Crystallization of Organic Semiconductors for High Performance Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2009 , 21, 4873-4879	9.6	13
48	Alignment of linear polymeric grains for highly stable N-type thin-film transistors. <i>CheM</i> , 2021 , 7, 1258-1270	12.0	13
47	Organostannane-free polycondensation and eco-friendly processing strategy for the design of semiconducting polymers in transistors. <i>Materials Horizons</i> , 2020 , 7, 1955-1970	14.4	12
46	Organozinc Compounds as Effective Dielectric Modification Layers for Polymer Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2012 , 22, 4139-4148	15.6	12

45	Recent progress in stretchable organic field-effect transistors. <i>Science China Technological Sciences</i> , 2019 , 62, 1255-1276	3.5	11
44	The synthesis of 2,6-dialkylphenyldithieno[3,2-b:2',3'-d]thiophene derivatives and their applications in organic field-effect transistors. <i>Dyes and Pigments</i> , 2013 , 98, 17-24	4.6	11
43	Synthesis and characterization of fullerene derivatives with perfluoroalkyl groups. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3258		11
42	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	7.1	9
41	Flexible organic-inorganic hybrid perovskite solar cells. <i>Science China Materials</i> , 2016 , 59, 495-506	7.1	7
40	Ultrahigh-Performance Optoelectronic Skin Based on Intrinsically Stretchable Perovskite-Polymer Heterojunction Transistors. <i>Advanced Materials</i> , 2021 , e2107304	24	7
39	Room-Temperature, Solution-Processed SiO via Photochemistry Approach for Highly Flexible Resistive Switching Memory. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56186-56194	9.5	7
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