

Yunlong guo

List of Publications by Year in Descending Order

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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	Ultrahigh-Performance Optoelectronic Skin Based on Intrinsically Stretchable Perovskite-Polymer Heterojunction Transistors (Adv. Mater. 4/2022). <i>Advanced Materials</i> , 2022 , 34, 2270028	24	
187	Advances in flexible organic field-effect transistors and their applications for flexible electronics. <i>Npj Flexible Electronics</i> , 2022 , 6,	10.7	32
186	A nonchlorinated solvent-processed polymer semiconductor for high-performance ambipolar transistors.. <i>National Science Review</i> , 2022 , 9, nwab145	10.8	2
185	Self-Assembly 3-D Penetrating Nanonetwork for High-Performance Intrinsically Stretchable Polymer Light-Emitting Diodes.. <i>Advanced Materials</i> , 2022 , e2201844	24	2
184	Multifunctional neurosynaptic devices for human perception systems. <i>Journal of Semiconductors</i> , 2022 , 43, 051201	2.3	3
183	Ultrahigh-Performance Optoelectronic Skin Based on Intrinsically Stretchable Perovskite-Polymer Heterojunction Transistors. <i>Advanced Materials</i> , 2021 , e2107304	24	7
182	Enabling the aqueous solution sensing of skin-conformable organic field-effect transistor using an amphiphilic molecule. <i>Applied Materials Today</i> , 2021 , 26, 101275	6.6	3
181	Acceptor Modulation Strategies for Improving the Electron Transport in High-Performance Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2021 , e2104325	24	6
180	Resistance Switching Behavior of a Perhydropolysilazane-Derived SiO-Based Memristor. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10728-10734	6.4	4
179	Alignment of linear polymeric grains for highly stable N-type thin-film transistors. <i>CheM</i> , 2021 , 7, 1258-1260	2.0	13
178	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
177	High-Mobility Organic Light-Emitting Semiconductors and Its Optoelectronic Devices. <i>Small Structures</i> , 2021 , 2, 2000083	8.7	24
176	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
175	Perovskite photodetectors and their application in artificial photonic synapses. <i>Chemical Communications</i> , 2021 , 57, 11429-11442	5.8	3
174	Ultra-sensitive boscalid sensors based on a Cyclodextrin modified perfluorinated copper phthalocyanine field-effect transistor. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 12877-12883	7.1	0
173	50.4: Invited Paper: Flexible organic semiconductors and transistors. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 610-610	0.5	
172	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	6.4	2

171	Carbon nanotube-based van der Waals heterojunction electrodes for high-performance intrinsically stretchable organic photoelectric transistors. <i>Giant</i> , 2021 , 7, 100060	5.6	4
170	Synthesis of Two-Dimensional C-C Bonded Truxene-Based Covalent Organic Frameworks by Irreversible Brønsted Acid-Catalyzed Aldol Cyclotrimerization. <i>Research</i> , 2021 , 2021, 9790705	7.8	0
169	Application of organic field-effect transistors in memory. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 2845-2862	2.8	17
168	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
167	Research Progress in Functional Stretchable Organic Electronic Devices. <i>Acta Chimica Sinica</i> , 2020 , 78, 848	3.3	6
166	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
165	Organic photodiodes for near-infrared light detection. <i>Semiconductor Science and Technology</i> , 2020 , 35, 114001	1.8	4
164	Room-Temperature, Solution-Processed SiO ₂ via Photochemistry Approach for Highly Flexible Resistive Switching Memory. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56186-56194	9.5	7
163	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
162	Design and Synthesis of Annulated Benzothiadiazoles via Dithiolate Formation for Ambipolar Organic Semiconductors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 53328-53341	9.5	0
161	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
160	A Flexible Acetylcholinesterase-Modified Graphene for Chiral Pesticide Sensor. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14643-14649	16.4	36
159	Exploration of Near-Infrared Organic Photodetectors. <i>Chemistry of Materials</i> , 2019 , 31, 6359-6379	9.6	101
158	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
157	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
156	Recent progress in stretchable organic field-effect transistors. <i>Science China Technological Sciences</i> , 2019 , 62, 1255-1276	3.5	11
155	Investigation of Electrode Electrochemical Reactions in CH ₃ NH ₃ PbBr Perovskite Single-Crystal Field-Effect Transistors. <i>Advanced Materials</i> , 2019 , 31, e1902618	24	48
154	High-Performance Ambipolar Polymers Based on Electron-Withdrawing Group Substituted Bay-Annulated Indigo. <i>Advanced Functional Materials</i> , 2019 , 29, 1804839	15.6	16

153	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
152	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
151	Fast Deposition of Aligning Edge-On Polymers for High-Mobility Ambipolar Transistors. <i>Advanced Materials</i> , 2019 , 31, e1805761	24	48
150	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
149	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
148	Organic Field-Effect Transistors: Triple Acceptors in a Polymeric Architecture for Balanced Ambipolar Transistors and High-Gain Inverters (Adv. Mater. 32/2018). <i>Advanced Materials</i> , 2018 , 30, 1870241	24	24
147	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
146	NIR polymers and phototransistors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 13049-13058	7.1	19
145	Neuromorphic Devices: A Ferroelectric/Electrochemical Modulated Organic Synapse for Ultraflexible, Artificial Visual-Perception System (Adv. Mater. 46/2018). <i>Advanced Materials</i> , 2018 , 30, 1870349	24	5
144	A Ferroelectric/Electrochemical Modulated Organic Synapse for Ultraflexible, Artificial Visual-Perception System. <i>Advanced Materials</i> , 2018 , 30, e1803961	24	191
143	Insight into High-Performance Conjugated Polymers for Organic Field-Effect Transistors. <i>Chem</i> , 2018 , 4, 2748-2785	16.2	176
142	Triple Acceptors in a Polymeric Architecture for Balanced Ambipolar Transistors and High-Gain Inverters. <i>Advanced Materials</i> , 2018 , 30, e1801951	24	22
141	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
140	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
139	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
138	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
137	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
136	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

135	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
134	Photosensors: A Retina-Like Dual Band Organic Photosensor Array for Filter-Free Near-Infrared-to-Memory Operations (<i>Adv. Mater.</i> 32/2017). <i>Advanced Materials</i> , 2017 , 29,	24	6
133	Engineering of Amorphous Polymeric Insulators for Organic Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700157	6.4	32
132	Isoindigo-Based Polymers with Small Effective Masses for High-Mobility Ambipolar Field-Effect Transistors. <i>Advanced Materials</i> , 2017 , 29, 1702115	24	91
131	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
130	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
129	Tailoring molecular weight of polymeric dielectric to enhance electron and hole mobilities in polymer field-effect transistors. <i>Polymer</i> , 2016 , 99, 496-502	3.9	4
128	Flexible organic-inorganic hybrid perovskite solar cells. <i>Science China Materials</i> , 2016 , 59, 495-506	7.1	7
127	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
126	Polymer Stabilization of Lead(II) Perovskite Cubic Nanocrystals for Semitransparent Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1502317	21.8	140
125	Local Time-Dependent Charging in a Perovskite Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19402-9	9.5	95
124	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
123	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
122	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
121	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
120	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
119	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
118	Self-Aligned Single-Crystal Graphene Grains. <i>Advanced Functional Materials</i> , 2014 , 24, 1664-1670	15.6	43

117	Controllable fabrication of ultrathin free-standing graphene films. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014 , 372, 20130017	3	14
116	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
115	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
114	Graphene: Near-Equilibrium Chemical Vapor Deposition of High-Quality Single-Crystal Graphene Directly on Various Dielectric Substrates (Adv. Mater. 9/2014). <i>Advanced Materials</i> , 2014 , 26, 1471-1471	24	1
113	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
112	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
111	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
110	Inkjet printing short-channel polymer transistors with high-performance and ultrahigh photoresponsivity. <i>Advanced Materials</i> , 2014 , 26, 4683-9	24	74
109	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
108	Organic Electronics: 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 (Adv. Funct. Mater. 24/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 3783-3789	15.6	3
107	Enhancement in the efficiency of an organic/organic 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
106	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	24	0
105	25th anniversary article: recent advances in n-type and ambipolar organic field-effect transistors. <i>Advanced Materials</i> , 2013 , 25, 5372-91	24	541
104	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
103	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
102	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
101	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
100	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, 4835-4835	9.6	4

99	A diketopyrrolopyrrole-thiazolothiazole copolymer for high performance organic field-effect transistors. <i>Chemical Communications</i> , 2013 , 49, 1998-2000	5.8	45
98	Synthesis and Characterization of N,N'-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	3	2
97	Dithiazole-fused naphthalene diimides toward new n-type semiconductors. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1087-1092	7.1	43
96	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
95	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
94	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
93	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
92	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
91	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
90	Graphene Sheets: Gram-Scale Synthesis of Graphene Sheets by a Catalytic Arc-Discharge Method (Small 8/2013). <i>Small</i> , 2013 , 9, 1329-1329	11	
89	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
88	Fractal etching of graphene. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6431-4	16.4	123
87	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
86	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
85	Gram-scale synthesis of graphene sheets by a catalytic arc-discharge method. <i>Small</i> , 2013 , 9, 1330-5	11	43
84	Ultrasensitive and selective sensing of heavy metal ions with modified graphene. <i>Chemical Communications</i> , 2013 , 49, 6492-4	5.8	71
83	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
82	Self-organized graphene crystal patterns. <i>NPG Asia Materials</i> , 2013 , 5, e36-e36	10.3	137

81	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
80	Large-area, flexible imaging arrays constructed by light-charge organic memories. <i>Scientific Reports</i> , 2013 , 3, 1080	4.9	84
79	Substrate-free ultra-flexible organic field-effect transistors and five-stage ring oscillators. <i>Advanced Materials</i> , 2013 , 25, 5455-60	24	91
78	Graphene: Two-Stage Metal-Catalyst-Free Growth of High-Quality Polycrystalline Graphene Films on Silicon Nitride Substrates (Adv. Mater. 7/2013). <i>Advanced Materials</i> , 2013 , 25, 938-938	24	2
77	Inkjet printing high-resolution, large-area graphene patterns by coffee-ring lithography. <i>Advanced Materials</i> , 2012 , 24, 436-40	24	138
76	Quantitative analysis of the role of the first layer in p- and n-type organic field-effect transistors with graphene electrodes. <i>Advanced Materials</i> , 2012 , 24, 1471-5	24	6
75	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
74	Dibenzoannelated tetrathienoacene: synthesis, characterization, and applications in organic field-effect transistors. <i>Organic Letters</i> , 2012 , 14, 3300-3	6.2	44
73	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
72	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
71	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
70	Production of graphite chloride and bromide using microwave sparks. <i>Scientific Reports</i> , 2012 , 2, 662	4.9	110
69	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
68	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
67	New tetrathiafulvalene fused-naphthalene diimides for solution-processable and air-stable p-type and ambipolar organic semiconductors. <i>Chemical Science</i> , 2012 , 3, 2530	9.4	60
66	A stable solution-processed polymer semiconductor with record high-mobility for printed transistors. <i>Scientific Reports</i> , 2012 , 2, 754	4.9	733
65	Organozinc Compounds as Effective Dielectric Modification Layers for Polymer Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2012 , 22, 4139-4148	15.6	12
64	Multilayer graphene-coated atomic force microscopy tips for molecular junctions. <i>Advanced Materials</i> , 2012 , 24, 3482-5	24	27

63	Highly Extended copolymers with diketopyrrolopyrrole moieties for high-performance field-effect transistors. <i>Advanced Materials</i> , 2012 , 24, 4618-22	24	649
62	Multilayer Graphene-Coated Atomic Force Microscopy Tips for Molecular Junctions (Adv. Mater. 26/2012). <i>Advanced Materials</i> , 2012 , 24, 3481-3481	24	1
61	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
60	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
59	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
58	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
57	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
56	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
55	Production of graphene nanospheres by annealing of graphene oxide in solution. <i>Nano Research</i> , 2011 , 4, 705-711	10	17
54	Ultrahigh density modulation of aligned single-walled carbon nanotube arrays. <i>Nano Research</i> , 2011 , 4, 931-937	10	15
53	Synthesis of large-area, few-layer graphene on iron foil by chemical vapor deposition. <i>Nano Research</i> , 2011 , 4, 1208-1214	10	106
52	Interfacial heterogeneity of surface energy in organic field-effect transistors. <i>Advanced Materials</i> , 2011 , 23, 1009-14	24	53
51	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
50	Production of high-quality carbon nanoscrolls with microwave spark assistance in liquid nitrogen. <i>Advanced Materials</i> , 2011 , 23, 2460-3	24	98
49	Morphology optimization for the fabrication of high mobility thin-film transistors. <i>Advanced Materials</i> , 2011 , 23, 3128-33	24	47
48	Equiangular hexagon-shape-controlled synthesis of graphene on copper surface. <i>Advanced Materials</i> , 2011 , 23, 3522-5	24	162
47	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
46	Organic Thin-Film Transistors: Interfacial Heterogeneity of Surface Energy in Organic Field-Effect Transistors (Adv. Mater. 8/2011). <i>Advanced Materials</i> , 2011 , 23, 1008-1008	24	

45	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
44	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
43	High quality graphene with large flakes exfoliated by oleyl amine. <i>Chemical Communications</i> , 2010 , 46, 5728-30	5.8	57
42	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
41	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
40	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
39	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
38	Solvent-assisted re-annealing of polymer films for solution-processable organic field-effect transistors. <i>Advanced Materials</i> , 2010 , 22, 1273-7	24	51
37	Top-gate organic thin-film transistors constructed by a general lamination approach. <i>Advanced Materials</i> , 2010 , 22, 3537-41	24	37
36	Functional organic field-effect transistors. <i>Advanced Materials</i> , 2010 , 22, 4427-47	24	481
35	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
34	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
33	Multibit Storage of Organic Thin-Film Field-Effect Transistors. <i>Advanced Materials</i> , 2009 , 21, 1954-1959	24	164
32	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
31	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
30	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
29	Effect of substituents on electronic properties, thin film structure and device performance of dithienothiophene- π -phenylene cooligomers. <i>Thin Solid Films</i> , 2009 , 517, 2968-2973	2.2	14
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27	Selective Crystallization of Organic Semiconductors for High Performance Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2009 , 21, 4873-4879	9.6	13
26	Synthesis and characterization of fullerene derivatives with perfluoroalkyl groups. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3258		11
25	Dicyanovinyl heterotetracenes: synthesis, solid-state structures, and photophysical properties. <i>Journal of Organic Chemistry</i> , 2009 , 74, 7322-7	4.2	22
24	Novel Functionalized Conjugated Polythiophene with Oxetane Substituents: Synthesis, Optical, Electrochemical, and Field-Effect Properties. <i>Macromolecules</i> , 2009 , 42, 3222-3226	5.5	43
23	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
22	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
21	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
20	Porphyridithienothiophene Conjugated Copolymers: Synthesis and Their Applications in Field-Effect Transistors and Solar Cells. <i>Macromolecules</i> , 2008 , 41, 6895-6902	5.5	137
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15	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
14	High-Performance Organic Field-Effect Transistors with Low-Cost Copper Electrodes. <i>Advanced Materials</i> , 2008 , 20, 1286-1290	24	85
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