

Xuefeng 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.

167
papers

7,973
citations

49
h-index

86
g-index

183
ext. papers

9,200
ext. citations

13
avg, IF

6.24
L-index

#	Paper	IF	Citations
167	Cross-Scale Synthesis of Organic High- Semiconductors Based on Spiro-Gridized Nanopolymers.. <i>Research</i> , 2022 , 2022, 9820585	7.8	1
166	Recent Advances in Photochemical Reactions on Single-Molecule Electrical Platforms.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200017	4.8	3
165	Direct mechano-sliding transfer of chemical vapor deposition grown silicon nanowires for nanoscale electronic devices. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 469-475	7.1	1
164	Single-Molecule Junction: A Reliable Platform for Monitoring Molecular Physical and Chemical Processes.. <i>ACS Nano</i> , 2022 ,	16.7	6
163	Dual-gated single-molecule field-effect transistors beyond Moore's law.. <i>Nature Communications</i> , 2022 , 13, 1410	17.4	5
162	Stochastic Binding Dynamics of a Photoswitchable Single Supramolecular Complex.. <i>Advanced Science</i> , 2022 , e2200022	13.6	1
161	Single-molecule field effect and conductance switching driven by electric field and proton transfer.. <i>Science Advances</i> , 2022 , 8, eabm3541	14.3	5
160	Single-molecule optoelectronic devices: physical mechanism and beyond. <i>Opto-Electronic Advances</i> , 2022 , 5, 210094-210094	6.5	0
159	Molecule-Based Transistors: From Macroscale to Single Molecule. <i>Chemical Record</i> , 2021 , 21, 1284-1299	6.6	8
158	Tunable Symmetry-Breaking-Induced Dual Functions in Stable and Photoswitched Single-Molecule Junctions. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	3
157	Accurate Single-Molecule Indicator of Solvent Effects.. <i>Jacs Au</i> , 2021 , 1, 2271-2279		1
156	Real-time observation of the dynamics of an individual rotaxane molecular shuttle using a single-molecule junction. <i>CheM</i> , 2021 ,	16.2	6
155	Complete Mapping of DNA-Protein Interactions at the Single-Molecule Level. <i>Advanced Science</i> , 2021 , 8, e2101383	13.6	0
154	An accurate, high-speed, portable bifunctional electrical detector for COVID-19. <i>Science China Materials</i> , 2021 , 64, 739-747	7.1	9
153	A single-molecule electrical approach for amino acid detection and chirality recognition. <i>Science Advances</i> , 2021 , 7,	14.3	9
152	Atomically Precise Engineering of Single-Molecule Stereoelectronic Effect. <i>Angewandte Chemie</i> , 2021 , 133, 12382-12386	3.6	
151	Revealing Conformational Transition Dynamics of Photosynthetic Proteins in Single-Molecule Electrical Circuits. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3853-3859	6.4	0

150	Atomically Precise Engineering of Single-Molecule Stereoelectronic Effect. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12274-12278	16.4	6
149	Temperature-Triggered Supramolecular Assembly of Organic Semiconductors. <i>Advanced Materials</i> , 2021 , e2101487	24	2
148	Structural Transition Dynamics in Carbon Electrode-Based Single-Molecule Junctions. <i>Chinese Journal of Chemistry</i> , 2021 , 39, 223-231	4.9	5
147	Single-molecule electrical spectroscopy of organocatalysis. <i>Matter</i> , 2021 , 4, 2874-2885	12.7	6
146	Unveiling the full reaction path of the Suzuki-Miyaura cross-coupling in a single-molecule junction. <i>Nature Nanotechnology</i> , 2021 , 16, 1214-1223	28.7	13
145	Electric field-catalyzed single-molecule Diels-Alder reaction dynamics. <i>Science Advances</i> , 2021 , 7,	14.3	20
144	Molecular Engineering: A Key Route to Improve the Performance of Molecular Devices. <i>Matter</i> , 2020 , 2, 284-285	12.7	2
143	Fabrication and functions of graphene-molecule-graphene single-molecule junctions. <i>Journal of Chemical Physics</i> , 2020 , 152, 120902	3.9	6
142	Interface Engineering in Organic Field-Effect Transistors: Principles, Applications, and Perspectives. <i>Chemical Reviews</i> , 2020 , 120, 2879-2949	68.1	92
141	TMAVA, a Metabolite of Intestinal Microbes, Is Increased in Plasma From Patients With Liver Steatosis, Inhibits β -Butyrobetaine Hydroxylase, and Exacerbates Fatty Liver in Mice. <i>Gastroenterology</i> , 2020 , 158, 2266-2281.e27	13.3	37
140	Active Self-Assembled Monolayer Sensors for Trace Explosive Detection. <i>Langmuir</i> , 2020 , 36, 1462-14664		10
139	Preparation of highly oriented single crystal arrays of C8-BTBT by epitaxial growth on oriented isotactic polypropylene. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2155-2159	7.1	5
138	Single-Molecule Nanotechnologies: An Evolution in Biological Dynamics Detection.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 68-85	4.1	12
137	Electrical and spin switches in single-molecule junctions. <i>Information Materials</i> , 2020 , 2, 92-112	23.1	22
136	Crystallization Mechanism of 9,9-Diphenyl-dibenzosilole from Solids. <i>ChemPhysChem</i> , 2020 , 21, 181-186	3.2	3
135	Summary and Perspectives 2020 , 375-388		
134	Other Electrodes for Molecular Electronics 2020 , 113-117		
133	Novel Phenomena in Single-Molecule Junctions 2020 , 119-135		

132 Theoretical Aspects for Electron Transport Through Molecular Junctions **2020**, 209-224

131 Unravelling Structural Dynamics within a Photoswitchable Single Peptide: A Step Towards Multimodal Bioinspired Nanodevices. *Angewandte Chemie*, **2020**, 132, 22743-22751 3.6 2

130 Metal Electrodes for Molecular Electronics **2020**, 7-91

129 Supramolecular Interactions in Single-Molecule Junctions **2020**, 137-155

128 Characterization Techniques for Molecular Electronics **2020**, 157-207

127 Integrating Molecular Functionalities into Electrical Circuits **2020**, 225-374

126 Unravelling Structural Dynamics within a Photoswitchable Single Peptide: A Step Towards Multimodal Bioinspired Nanodevices. *Angewandte Chemie - International Edition*, **2020**, 59, 22554-22562 16.4 9

125 Carbon Electrodes for Molecular Electronics **2020**, 93-112

124 Single-Molecule Electrical Detection: A Promising Route toward the Fundamental Limits of Chemistry and Life Science. *Accounts of Chemical Research*, **2020**, 53, 159-169 24.3 37

123 Control of Unipolar/Ambipolar Transport in Single-Molecule Transistors through Interface Engineering. *Advanced Electronic Materials*, **2020**, 6, 1901237 6.4 13

122 Multistep nucleation and growth mechanisms of organic crystals from amorphous solid states. *Nature Communications*, **2019**, 10, 3872 17.4 36

121 Side-group chemical gating via reversible optical and electric control in a single molecule transistor. *Nature Communications*, **2019**, 10, 1450 17.4 53

120 Concepts in the design and engineering of single-molecule electronic devices. *Nature Reviews Physics*, **2019**, 1, 211-230 23.6 191

119 Functional molecular electronic devices through environmental control. *Science China Materials*, **2019**, 62, 1-7 7.1 9

118 Ultrasensitive Detection and Binding Mechanism of Cocaine in an Aptamer-based Single-molecule Device. *Chinese Journal of Chemistry*, **2019**, 37, 897-902 4.9 8

117 14%-efficiency fullerene-free ternary solar cell enabled by designing a short side-chain substituted small-molecule acceptor. *Nano Energy*, **2019**, 64, 103934 17.1 34

116 Revealing Charge- and Temperature-Dependent Movement Dynamics and Mechanism of Individual Molecular Machines. *Small Methods*, **2019**, 3, 1900464 12.8 12

115 Molecular Physics: Revealing Charge- and Temperature-Dependent Movement Dynamics and Mechanism of Individual Molecular Machines (Small Methods 12/2019). *Small Methods*, **2019**, 3, 1970041 12.8

114	Precise control of graphene etching by remote hydrogen plasma. <i>Nano Research</i> , 2019 , 12, 137-142	10	11
113	Improving Photovoltaic Stability and Performance of Perovskite Solar Cells by Molecular Interface Engineering. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 1219-1225	3.8	12
112	Precise Control of Interfacial Charge Transport for Building Functional Optoelectronic Devices. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800358	6.8	1
111	Building nanogapped graphene electrode arrays by electroburning.. <i>RSC Advances</i> , 2018 , 8, 6814-6819	3.7	3
110	Direct observation of single-molecule hydrogen-bond dynamics with single-bond resolution. <i>Nature Communications</i> , 2018 , 9, 807	17.4	56
109	Direct single-molecule dynamic detection of chemical reactions. <i>Science Advances</i> , 2018 , 4, eaar2177	14.3	54
108	Ultrafast probes of electron-hole transitions between two atomic layers. <i>Nature Communications</i> , 2018 , 9, 1859	17.4	23
107	Label-Free Dynamic Detection of Single-Molecule Nucleophilic-Substitution Reactions. <i>Nano Letters</i> , 2018 , 18, 4156-4162	11.5	34
106	Nanocrystalline Perovskite Hybrid Photodetectors with High Performance in Almost Every Figure of Merit. <i>Advanced Functional Materials</i> , 2018 , 28, 1705589	15.6	31
105	Origin and mechanism analysis of asymmetric current fluctuations in single-molecule junctions.. <i>RSC Advances</i> , 2018 , 8, 39408-39413	3.7	1
104	Towards single-molecule optoelectronic devices. <i>Science China Chemistry</i> , 2018 , 61, 1368-1384	7.9	25
103	Tuning Charge Transport in Aromatic-Ring Single-Molecule Junctions via Ionic-Liquid Gating. <i>Angewandte Chemie</i> , 2018 , 130, 14222-14227	3.6	18
102	Tuning Charge Transport in Aromatic-Ring Single-Molecule Junctions via Ionic-Liquid Gating. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14026-14031	16.4	36
101	Efficient Fabrication of Stable Graphene-Molecule-Graphene Single-Molecule Junctions at Room Temperature. <i>ChemPhysChem</i> , 2018 , 19, 2258-2265	3.2	7
100	Stereoelectronic Effect-Induced Conductance Switching in Aromatic Chain Single-Molecule Junctions. <i>Nano Letters</i> , 2017 , 17, 856-861	11.5	55
99	Single-Molecule Electrical Detection with Real-Time Label-Free Capability and Ultrasensitivity. <i>Small Methods</i> , 2017 , 1, 1700071	12.8	24
98	Switching Effects in Molecular Electronic Devices. <i>Topics in Current Chemistry</i> , 2017 , 375, 56	7.2	31
97	Universal Coating from Electrostatic Self-Assembly to Prevent Multidrug-Resistant Bacterial Colonization on Medical Devices and Solid Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21181-21189	8.5	31

96	Thermally Activated Tunneling Transition in a Photoswitchable Single-Molecule Electrical Junction. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2849-2854	6.4	18
95	High-Efficiency Photovoltaic Conversion at Selective Electron Tunneling Heterointerfaces. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700211	6.4	5
94	Catalyst: The Renaissance of Molecular Electronics. <i>CheM</i> , 2017 , 3, 373-376	16.2	16
93	Concentration-tailored self-assembly composition and function of the coordinating self-assembly of perylenetetracarboxylate. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8936-8943	7.1	11
92	Flexible Filter-Free Narrowband Photodetector with High Gain and Customized Responsive Spectrum. <i>Advanced Functional Materials</i> , 2017 , 27, 1702360	15.6	44
91	Single Nucleotide Polymorphism Genotyping in Single-Molecule Electronic Circuits. <i>Advanced Science</i> , 2017 , 4, 1700158	13.6	10
90	Interface-engineered charge separation at selective electron tunneling heterointerfaces. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2125-2131	7.8	5
89	Direct Measurement of Single-Molecule Adenosine Triphosphatase Hydrolysis Dynamics. <i>ACS Nano</i> , 2017 , 11, 12789-12795	16.7	12
88	Interface-modulated approach toward multilevel metal oxide nanotubes for lithium-ion batteries and oxygen reduction reaction. <i>Nano Research</i> , 2016 , 9, 2445-2457	10	32
87	Direct real-time detection of single proteins using silicon nanowire-based electrical circuits. <i>Nanoscale</i> , 2016 , 8, 16172-16176	7.7	28
86	Complex formation dynamics in a single-molecule electronic device. <i>Science Advances</i> , 2016 , 2, e1601113	14.3	55
85	Covalently bonded single-molecule junctions with stable and reversible photoswitched conductivity. <i>Science</i> , 2016 , 352, 1443-5	33.3	529
84	Molecular-Scale Electronics: From Concept to Function. <i>Chemical Reviews</i> , 2016 , 116, 4318-440	68.1	746
83	Design of a Photoactive Hybrid Bilayer Dielectric for Flexible Nonvolatile Organic Memory Transistors. <i>ACS Nano</i> , 2016 , 10, 436-45	16.7	77
82	Logic Control of Interface-Induced Charge-Trapping Effect for Ultrasensitive Gas Detection with All-Mirror-Image Symmetry. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600067	6.8	10
81	Direct Measurement of Single-Molecule DNA Hybridization Dynamics with Single-Base Resolution. <i>Angewandte Chemie</i> , 2016 , 128, 9182-9186	3.6	5
80	Direct Measurement of Single-Molecule DNA Hybridization Dynamics with Single-Base Resolution. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9036-40	16.4	38
79	Substrate-Induced Graphene Chemistry for 2D Superlattices with Tunable Periodicities. <i>Advanced Materials</i> , 2016 , 28, 2148-54	24	16

78	Interface-Engineered Plasmonics in Metal/Semiconductor Heterostructures. <i>Advanced Energy Materials</i> , 2016 , 6, 1600431	21.8	72
77	High-Efficiency Selective Electron Tunnelling in a Heterostructure Photovoltaic Diode. <i>Nano Letters</i> , 2016 , 16, 3600-6	11.5	13
76	Photocontrol of charge injection/extraction at electrode/semiconductor interfaces for high-photoresponsivity organic transistors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5289-5296	7.1	24
75	Single-Atom Switches and Single-Atom Gaps Using Stretched Metal Nanowires. <i>ACS Nano</i> , 2016 , 10, 9695-9702	10.7	32
74	Ultrahigh Photogain Nanoscale Hybrid Photodetectors. <i>Small</i> , 2015 , 11, 2856-61	11	10
73	Carbon Electrode-Molecule Junctions: A Reliable Platform for Molecular Electronics. <i>Accounts of Chemical Research</i> , 2015 , 48, 2565-75	24.3	109
72	Large-scale aligned crystalline CH ₃ NH ₃ PbI ₃ perovskite array films. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18847-18851	13	18
71	A universal etching-free transfer of MoS ₂ films for applications in photodetectors. <i>Nano Research</i> , 2015 , 8, 3662-3672	10	72
70	An organic/inorganic hybrid perovskite logic gate for better computing. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10793-10798	7.1	55
69	Direct low-temperature synthesis of graphene on various glasses by plasma-enhanced chemical vapor deposition for versatile, cost-effective electrodes. <i>Nano Research</i> , 2015 , 8, 3496-3504	10	98
68	Organic Field-Effect Transistors: Solution-Processable, Low-Voltage, and High-Performance Monolayer Field-Effect Transistors with Aqueous Stability and High Sensitivity (Adv. Mater. 12/2015). <i>Advanced Materials</i> , 2015 , 27, 2124-2124	24	
67	Substrate-induced interfacial plasmonics for photovoltaic conversion. <i>Scientific Reports</i> , 2015 , 5, 14497	4.9	21
66	Synergistic Photomodulation of Capacitive Coupling and Charge Separation Toward Functional Organic Field-Effect Transistors with High Responsivity. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500159	6.4	24
65	Fabrication of Chemical Graphene Nanoribbons via Edge-Selective Covalent Modification. <i>Advanced Materials</i> , 2015 , 27, 4093-6	24	13
64	Revealing the direct effect of individual intercalations on DNA conductance toward single-molecule electrical biodetection. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 5150-5154	7.3	18
63	Graphene-DNAzyme Junctions: A Platform for Direct Metal Ion Detection with Ultrahigh Sensitivity. <i>Chemical Science</i> , 2015 , 6, 2469-2473	9.4	36
62	Solution-processable, low-voltage, and high-performance monolayer field-effect transistors with aqueous stability and high sensitivity. <i>Advanced Materials</i> , 2015 , 27, 2113-20	24	85
61	Quasi-one-dimensional graphene superlattices formed on high-index surfaces. <i>Physical Review B</i> , 2014 , 89,	3.3	21

60	Point decoration of silicon nanowires: an approach toward single-molecule electrical detection. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5038-43	16.4	21
59	Point Decoration of Silicon Nanowires: An Approach Toward Single-Molecule Electrical Detection. <i>Angewandte Chemie</i> , 2014 , 126, 5138-5143	3.6	12
58	Frontispiece: Point Decoration of Silicon Nanowires: An Approach Toward Single-Molecule Electrical Detection. <i>Angewandte Chemie - International Edition</i> , 2014 , 53,	16.4	8
57	Molecular Electronics: Challenges and Opportunities. <i>AIMS Materials Science</i> , 2014 , 1, 11-14	1.9	4
56	Conductance switching and mechanisms in single-molecule junctions. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8666-70	16.4	131
55	Interface-engineered bistable [2]rotaxane-graphene hybrids with logic capabilities. <i>Advanced Materials</i> , 2013 , 25, 6752-9	24	44
54	Molecule-electrode interfaces in molecular electronic devices. <i>Chemical Society Reviews</i> , 2013 , 42, 5642-60.5	60.5	195
53	Toward functional molecular devices based on graphene-molecule junctions. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3906-10	16.4	69
52	Unique role of self-assembled monolayers in carbon nanomaterial-based field-effect transistors. <i>Small</i> , 2013 , 9, 1144-59	11	33
51	Single-molecule electrical biosensors based on single-walled carbon nanotubes. <i>Advanced Materials</i> , 2013 , 25, 3397-408	24	81
50	Field-Effect Transistors: Unique Role of Self-Assembled Monolayers in Carbon Nanomaterial-Based Field-Effect Transistors (Small 8/2013). <i>Small</i> , 2013 , 9, 1122-1122	11	1
49	Biosensors: Single-Molecule Electrical Biosensors Based on Single-Walled Carbon Nanotubes (Adv. Mater. 25/2013). <i>Advanced Materials</i> , 2013 , 25, 3390-3390	24	1
48	Toward Functional Molecular Devices Based on Graphene-Molecule Junctions. <i>Angewandte Chemie</i> , 2013 , 125, 3998-4002	3.6	14
47	Conductance Switching and Mechanisms in Single-Molecule Junctions. <i>Angewandte Chemie</i> , 2013 , 125, 8828-8832	3.6	13
46	Revealing Interface-Assisted Charge-Transfer Mechanisms by Using Silicon Nanowires as Local Probes. <i>Angewandte Chemie</i> , 2013 , 125, 3453-3457	3.6	2
45	Tuning the properties of graphene using a reversible gas-phase reaction. <i>NPG Asia Materials</i> , 2012 , 4, e31-e31	10.3	14
44	Carbon nanomaterials field-effect-transistor-based biosensors. <i>NPG Asia Materials</i> , 2012 , 4, e23-e23	10.3	180
43	Building High-Throughput Molecular Junctions Using Indented Graphene Point Contacts. <i>Angewandte Chemie</i> , 2012 , 124, 12394-12398	3.6	26

42	Building high-throughput molecular junctions using indented graphene point contacts. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12228-32	16.4	115
41	Solution-crystallized organic semiconductors with high carrier mobility and air stability. <i>Advanced Materials</i> , 2012 , 24, 5576-80, 5518	24	32
40	Self-powered high performance photodetectors based on CdSe nanobelt/graphene Schottky junctions. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2863		107
39	Direct optical characterization of graphene growth and domains on growth substrates. <i>Scientific Reports</i> , 2012 , 2, 707	4.9	120
38	Understanding charge transfer at PbS-decorated graphene surfaces toward a tunable photosensor. <i>Advanced Materials</i> , 2012 , 24, 2715-20	24	158
37	Light-driven photochromism-induced reversible switching in P3HT π piropyran hybrid transistors. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4261-4265		69
36	Rapid flu diagnosis using silicon nanowire sensor. <i>Nano Letters</i> , 2012 , 12, 3722-30	11.5	114
35	Organic Semiconductors: Solution-Crystallized Organic Semiconductors with High Carrier Mobility and Air Stability (Adv. Mater. 41/2012). <i>Advanced Materials</i> , 2012 , 24, 5518-5518	24	
34	Multicolor graphene nanoribbon/semiconductor nanowire heterojunction light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11760		49
33	Single-Molecule Detection of Proteins Using Aptamer-Functionalized Molecular Electronic Devices. <i>Angewandte Chemie</i> , 2011 , 123, 2544-2550	3.6	17
32	Direct Conductance Measurement of Individual Metallo-DNA Duplexes within Single-Molecule Break Junctions. <i>Angewandte Chemie</i> , 2011 , 123, 9048-9052	3.6	72
31	Single-molecule detection of proteins using aptamer-functionalized molecular electronic devices. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2496-502	16.4	86
30	Direct conductance measurement of individual metallo-DNA duplexes within single-molecule break junctions. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8886-90	16.4	160
29	TiO ₂ -decorated graphenes as efficient photoswitches with high oxygen sensitivity. <i>Chemical Science</i> , 2011 , 2, 1860	9.4	56
28	Ultrasensitive water-processed monolayer photodetectors. <i>Chemical Science</i> , 2011 , 2, 796	9.4	60
27	Interface engineering of semiconductor/dielectric heterojunctions toward functional organic thin-film transistors. <i>Nano Letters</i> , 2011 , 11, 4939-46	11.5	128
26	Integrating silicon nanowire field effect transistor, microfluidics and air sampling techniques for real-time monitoring biological aerosols. <i>Environmental Science & Technology</i> , 2011 , 45, 7473-80	10.3	59
25	Mirror-Image Photoswitching in a Single Organic Thin-Film Transistor. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1269-1276	6.4	17

24	Integrating reaction chemistry into molecular electronic devices. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 1040-57	4.5	21
23	Current trends in shrinking the channel length of organic transistors down to the nanoscale. <i>Advanced Materials</i> , 2010 , 22, 20-32	24	74
22	Photoactive gate dielectrics. <i>Advanced Materials</i> , 2010 , 22, 3282-7	24	67
21	High-Performance Langmuir-Blodgett Monolayer Transistors with High Responsivity. <i>Angewandte Chemie</i> , 2010 , 122, 6463-6467	3.6	30
20	High-performance Langmuir-Blodgett monolayer transistors with high responsivity. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6319-23	16.4	71
19	Chemical functionalization of single-walled carbon nanotube field-effect transistors as switches and sensors. <i>Coordination Chemistry Reviews</i> , 2010 , 254, 1101-1116	23.2	86
18	Langmuir-Blodgett monolayer transistors of copper phthalocyanine. <i>Applied Physics Letters</i> , 2009 , 95, 033304	3.4	21
17	Photoresponsive nanoscale columnar transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 691-6	11.5	85
16	High-Performance Photoresponsive Organic Nanotransistors with Single-Layer Graphenes as Two-Dimensional Electrodes. <i>Advanced Functional Materials</i> , 2009 , 19, 2743-2748	15.6	110
15	Mirror-Image Photoswitching of Individual Single-Walled Carbon Nanotube Transistors Coated with Titanium Dioxide. <i>Angewandte Chemie</i> , 2009 , 121, 4853-4856	3.6	9
14	Mirror-image photoswitching of individual single-walled carbon nanotube transistors coated with titanium dioxide. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4759-62	16.4	42
13	Tunable hybrid photodetectors with superhigh responsivity. <i>Small</i> , 2009 , 5, 2371-6	11	74
12	Functional single-molecule devices based on SWNTs as point contacts. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5470		9
11	Conductivity of a single DNA duplex bridging a carbon nanotube gap. <i>Nature Nanotechnology</i> , 2008 , 3, 163-7	28.7	287
10	Molecular electronic devices based on single-walled carbon nanotube electrodes. <i>Accounts of Chemical Research</i> , 2008 , 41, 1731-41	24.3	169
9	Reversible switching in molecular electronic devices. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12590-1	16.4	256
8	Single-molecule devices as scaffolding for multicomponent nanostructure assembly. <i>Nano Letters</i> , 2007 , 7, 1119-22	11.5	74
7	Chemoresponsive monolayer transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 11452-6	11.5	131

6	Covalently bridging gaps in single-walled carbon nanotubes with conducting molecules. <i>Science</i> , 2006 , 311, 356-9	33.3	390
5	Directing and sensing changes in molecular conformation on individual carbon nanotube field effect transistors. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15045-7	16.4	151
4	Recent progress in single-molecule transistors: their designs, mechanisms and applications. <i>Journal of Materials Chemistry C</i> ,	7.1	5
3	Principles of Molecular Machines at the Single-Molecule Scale1484-1502		3
2	Dipole-improved gating of azulene-based single-molecule transistors. <i>Journal of Materials Chemistry C</i> ,	7.1	0
1	Single-Molecule Fullerenes: Current Stage and Perspective1037-1052		1