

Xuefeng Guo

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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	Molecular-Scale Electronics: From Concept to Function. <i>Chemical Reviews</i> , 2016 , 116, 4318-440	68.1	746
166	Covalently bonded single-molecule junctions with stable and reversible photoswitched conductivity. <i>Science</i> , 2016 , 352, 1443-5	33.3	529
165	Covalently bridging gaps in single-walled carbon nanotubes with conducting molecules. <i>Science</i> , 2006 , 311, 356-9	33.3	390
164	Conductivity of a single DNA duplex bridging a carbon nanotube gap. <i>Nature Nanotechnology</i> , 2008 , 3, 163-7	28.7	287
163	Reversible switching in molecular electronic devices. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12590-1	16.4	256
162	Molecule-electrode interfaces in molecular electronic devices. <i>Chemical Society Reviews</i> , 2013 , 42, 5642-56	16.5	195
161	Concepts in the design and engineering of single-molecule electronic devices. <i>Nature Reviews Physics</i> , 2019 , 1, 211-230	23.6	191
160	Carbon nanomaterials field-effect-transistor-based biosensors. <i>NPG Asia Materials</i> , 2012 , 4, e23-e23	10.3	180
159	Molecular electronic devices based on single-walled carbon nanotube electrodes. <i>Accounts of Chemical Research</i> , 2008 , 41, 1731-41	24.3	169
158	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
157	Understanding charge transfer at PbS-decorated graphene surfaces toward a tunable photosensor. <i>Advanced Materials</i> , 2012 , 24, 2715-20	24	158
156	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
155	Conductance switching and mechanisms in single-molecule junctions. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8666-70	16.4	131
154	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
153	Interface engineering of semiconductor/dielectric heterojunctions toward functional organic thin-film transistors. <i>Nano Letters</i> , 2011 , 11, 4939-46	11.5	128
152	Direct optical characterization of graphene growth and domains on growth substrates. <i>Scientific Reports</i> , 2012 , 2, 707	4.9	120
151	Building high-throughput molecular junctions using indented graphene point contacts. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12228-32	16.4	115

150	Rapid flu diagnosis using silicon nanowire sensor. <i>Nano Letters</i> , 2012 , 12, 3722-30	11.5	114
149	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
148	Carbon Electrode-Molecule Junctions: A Reliable Platform for Molecular Electronics. <i>Accounts of Chemical Research</i> , 2015 , 48, 2565-75	24.3	109
147	Self-powered high performance photodetectors based on CdSe nanobelt/graphene Schottky junctions. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2863		107
146	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
145	Interface Engineering in Organic Field-Effect Transistors: Principles, Applications, and Perspectives. <i>Chemical Reviews</i> , 2020 , 120, 2879-2949	68.1	92
144	Single-molecule detection of proteins using aptamer-functionalized molecular electronic devices. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2496-502	16.4	86
143	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
142	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
141	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
140	Single-molecule electrical biosensors based on single-walled carbon nanotubes. <i>Advanced Materials</i> , 2013 , 25, 3397-408	24	81
139	Design of a Photoactive Hybrid Bilayer Dielectric for Flexible Nonvolatile Organic Memory Transistors. <i>ACS Nano</i> , 2016 , 10, 436-45	16.7	77
138	Tunable hybrid photodetectors with superhigh responsivity. <i>Small</i> , 2009 , 5, 2371-6	11	74
137	Current trends in shrinking the channel length of organic transistors down to the nanoscale. <i>Advanced Materials</i> , 2010 , 22, 20-32	24	74
136	Single-molecule devices as scaffolding for multicomponent nanostructure assembly. <i>Nano Letters</i> , 2007 , 7, 1119-22	11.5	74
135	A universal etching-free transfer of MoS ₂ films for applications in photodetectors. <i>Nano Research</i> , 2015 , 8, 3662-3672	10	72
134	Direct Conductance Measurement of Individual Metallo-DNA Duplexes within Single-Molecule Break Junctions. <i>Angewandte Chemie</i> , 2011 , 123, 9048-9052	3.6	72
133	Interface-Engineered Plasmonics in Metal/Semiconductor Heterostructures. <i>Advanced Energy Materials</i> , 2016 , 6, 1600431	21.8	72

132	High-performance Langmuir-Blodgett monolayer transistors with high responsivity. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6319-23	16.4	71
131	Light-driven photochromism-induced reversible switching in P3HT π spiropyran hybrid transistors. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4261-4265		69
130	Toward functional molecular devices based on graphene-molecule junctions. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3906-10	16.4	69
129	Photoactive gate dielectrics. <i>Advanced Materials</i> , 2010 , 22, 3282-7	24	67
128	Ultrasensitive water-processed monolayer photodetectors. <i>Chemical Science</i> , 2011 , 2, 796	9.4	60
127	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
126	Direct observation of single-molecule hydrogen-bond dynamics with single-bond resolution. <i>Nature Communications</i> , 2018 , 9, 807	17.4	56
125	TiO ₂ -decorated graphenes as efficient photoswitches with high oxygen sensitivity. <i>Chemical Science</i> , 2011 , 2, 1860	9.4	56
124	Stereoelectronic Effect-Induced Conductance Switching in Aromatic Chain Single-Molecule Junctions. <i>Nano Letters</i> , 2017 , 17, 856-861	11.5	55
123	An organic π organic hybrid perovskite logic gate for better computing. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10793-10798	7.1	55
122	Complex formation dynamics in a single-molecule electronic device. <i>Science Advances</i> , 2016 , 2, e1601113	14.3	55
121	Direct single-molecule dynamic detection of chemical reactions. <i>Science Advances</i> , 2018 , 4, eaar2177	14.3	54
120	Side-group chemical gating via reversible optical and electric control in a single molecule transistor. <i>Nature Communications</i> , 2019 , 10, 1450	17.4	53
119	Multicolor graphene nanoribbon/semiconductor nanowire heterojunction light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11760		49
118	Interface-engineered bistable [2]rotaxane-graphene hybrids with logic capabilities. <i>Advanced Materials</i> , 2013 , 25, 6752-9	24	44
117	Flexible Filter-Free Narrowband Photodetector with High Gain and Customized Responsive Spectrum. <i>Advanced Functional Materials</i> , 2017 , 27, 1702360	15.6	44
116	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
115	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

114	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
113	Single-Molecule Electrical Detection: A Promising Route toward the Fundamental Limits of Chemistry and Life Science. <i>Accounts of Chemical Research</i> , 2020 , 53, 159-169	24.3	37
112	Multistep nucleation and growth mechanisms of organic crystals from amorphous solid states. <i>Nature Communications</i> , 2019 , 10, 3872	17.4	36
111	Graphene-DNAzyme Junctions: A Platform for Direct Metal Ion Detection with Ultrahigh Sensitivity. <i>Chemical Science</i> , 2015 , 6, 2469-2473	9.4	36
110	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
109	Label-Free Dynamic Detection of Single-Molecule Nucleophilic-Substitution Reactions. <i>Nano Letters</i> , 2018 , 18, 4156-4162	11.5	34
108	14%-efficiency fullerene-free ternary solar cell enabled by designing a short side-chain substituted small-molecule acceptor. <i>Nano Energy</i> , 2019 , 64, 103934	17.1	34
107	Unique role of self-assembled monolayers in carbon nanomaterial-based field-effect transistors. <i>Small</i> , 2013 , 9, 1144-59	11	33
106	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
105	Solution-crystallized organic semiconductors with high carrier mobility and air stability. <i>Advanced Materials</i> , 2012 , 24, 5576-80, 5518	24	32
104	Single-Atom Switches and Single-Atom Gaps Using Stretched Metal Nanowires. <i>ACS Nano</i> , 2016 , 10, 9695-9702	10.7	32
103	Switching Effects in Molecular Electronic Devices. <i>Topics in Current Chemistry</i> , 2017 , 375, 56	7.2	31
102	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
101	Nanocrystalline Perovskite Hybrid Photodetectors with High Performance in Almost Every Figure of Merit. <i>Advanced Functional Materials</i> , 2018 , 28, 1705589	15.6	31
100	High-Performance Langmuir-Blodgett Monolayer Transistors with High Responsivity. <i>Angewandte Chemie</i> , 2010 , 122, 6463-6467	3.6	30
99	Direct real-time detection of single proteins using silicon nanowire-based electrical circuits. <i>Nanoscale</i> , 2016 , 8, 16172-16176	7.7	28
98	Building High-Throughput Molecular Junctions Using Indented Graphene Point Contacts. <i>Angewandte Chemie</i> , 2012 , 124, 12394-12398	3.6	26
97	Towards single-molecule optoelectronic devices. <i>Science China Chemistry</i> , 2018 , 61, 1368-1384	7.9	25

- 96 Single-Molecule Electrical Detection with Real-Time Label-Free Capability and Ultrasensitivity. *Small Methods*, **2017**, 1, 1700071 12.8 24
- 95 Synergistic Photomodulation of Capacitive Coupling and Charge Separation Toward Functional Organic Field-Effect Transistors with High Responsivity. *Advanced Electronic Materials*, **2015**, 1, 1500159 6.4 24
- 94 Photocontrol of charge injection/extraction at electrode/semiconductor interfaces for high-photoresponsivity organic transistors. *Journal of Materials Chemistry C*, **2016**, 4, 5289-5296 7.1 24
- 93 Ultrafast probes of electron-hole transitions between two atomic layers. *Nature Communications*, **2018**, 9, 1859 17.4 23
- 92 Electrical and spin switches in single-molecule junctions. *Information Materials*, **2020**, 2, 92-112 23.1 22
- 91 Quasi-one-dimensional graphene superlattices formed on high-index surfaces. *Physical Review B*, **2014**, 89, 3-3 21
- 90 Point decoration of silicon nanowires: an approach toward single-molecule electrical detection. *Angewandte Chemie - International Edition*, **2014**, 53, 5038-43 16.4 21
- 89 Substrate-induced interfacial plasmonics for photovoltaic conversion. *Scientific Reports*, **2015**, 5, 14497 4.9 21
- 88 Langmuir-Blodgett monolayer transistors of copper phthalocyanine. *Applied Physics Letters*, **2009**, 95, 033304 3.4 21
- 87 Integrating reaction chemistry into molecular electronic devices. *Chemistry - an Asian Journal*, **2010**, 5, 1040-57 4.5 21
- 86 Electric field-catalyzed single-molecule Diels-Alder reaction dynamics. *Science Advances*, **2021**, 7, 14.3 20
- 85 Thermally Activated Tunneling Transition in a Photoswitchable Single-Molecule Electrical Junction. *Journal of Physical Chemistry Letters*, **2017**, 8, 2849-2854 6.4 18
- 84 Large-scale aligned crystalline CH₃NH₃PbI₃ perovskite array films. *Journal of Materials Chemistry A*, **2015**, 3, 18847-18851 13 18
- 83 Revealing the direct effect of individual intercalations on DNA conductance toward single-molecule electrical biodetection. *Journal of Materials Chemistry B*, **2015**, 3, 5150-5154 7.3 18
- 82 Tuning Charge Transport in Aromatic-Ring Single-Molecule Junctions via Ionic-Liquid Gating. *Angewandte Chemie*, **2018**, 130, 14222-14227 3.6 18
- 81 Single-Molecule Detection of Proteins Using Aptamer-Functionalized Molecular Electronic Devices. *Angewandte Chemie*, **2011**, 123, 2544-2550 3.6 17
- 80 Mirror-Image Photoswitching in a Single Organic Thin-Film Transistor. *Journal of Physical Chemistry Letters*, **2010**, 1, 1269-1276 6.4 17
- 79 Catalyst: The Renaissance of Molecular Electronics. *Chem*, **2017**, 3, 373-376 16.2 16

78	Substrate-Induced Graphene Chemistry for 2D Superlattices with Tunable Periodicities. <i>Advanced Materials</i> , 2016 , 28, 2148-54	24	16
77	Tuning the properties of graphene using a reversible gas-phase reaction. <i>NPG Asia Materials</i> , 2012 , 4, e31-e31	10.3	14
76	Toward Functional Molecular Devices Based on Graphene-Molecule Junctions. <i>Angewandte Chemie</i> , 2013 , 125, 3998-4002	3.6	14
75	Fabrication of Chemical Graphene Nanoribbons via Edge-Selective Covalent Modification. <i>Advanced Materials</i> , 2015 , 27, 4093-6	24	13
74	Conductance Switching and Mechanisms in Single-Molecule Junctions. <i>Angewandte Chemie</i> , 2013 , 125, 8828-8832	3.6	13
73	High-Efficiency Selective Electron Tunnelling in a Heterostructure Photovoltaic Diode. <i>Nano Letters</i> , 2016 , 16, 3600-6	11.5	13
72	Control of Unipolar/Ambipolar Transport in Single-Molecule Transistors through Interface Engineering. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901237	6.4	13
71	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
70	Revealing Charge- and Temperature-Dependent Movement Dynamics and Mechanism of Individual Molecular Machines. <i>Small Methods</i> , 2019 , 3, 1900464	12.8	12
69	Point Decoration of Silicon Nanowires: An Approach Toward Single-Molecule Electrical Detection. <i>Angewandte Chemie</i> , 2014 , 126, 5138-5143	3.6	12
68	Direct Measurement of Single-Molecule Adenosine Triphosphatase Hydrolysis Dynamics. <i>ACS Nano</i> , 2017 , 11, 12789-12795	16.7	12
67	Single-Molecule Nanotechnologies: An Evolution in Biological Dynamics Detection.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 68-85	4.1	12
66	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
65	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
64	Precise control of graphene etching by remote hydrogen plasma. <i>Nano Research</i> , 2019 , 12, 137-142	10	11
63	Ultra-high Photogain Nanoscale Hybrid Photodetectors. <i>Small</i> , 2015 , 11, 2856-61	11	10
62	Active Self-Assembled Monolayer Sensors for Trace Explosive Detection. <i>Langmuir</i> , 2020 , 36, 1462-14664		10
61	Single Nucleotide Polymorphism Genotyping in Single-Molecule Electronic Circuits. <i>Advanced Science</i> , 2017 , 4, 1700158	13.6	10

60	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
59	Functional molecular electronic devices through environmental control. <i>Science China Materials</i> , 2019 , 62, 1-7	7.1	9
58	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
57	Functional single-molecule devices based on SWNTs as point contacts. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5470		9
56	An accurate, high-speed, portable bifunctional electrical detector for COVID-19. <i>Science China Materials</i> , 2021 , 64, 739-747	7.1	9
55	Unravelling Structural Dynamics within a Photoswitchable Single Peptide: A Step Towards Multimodal Bioinspired Nanodevices. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22554-22562	16.4	9
54	A single-molecule electrical approach for amino acid detection and chirality recognition. <i>Science Advances</i> , 2021 , 7,	14.3	9
53	Molecule-Based Transistors: From Macroscale to Single Molecule. <i>Chemical Record</i> , 2021 , 21, 1284-1299	6.6	8
52	Ultrasensitive Detection and Binding Mechanism of Cocaine in an Aptamer-based Single-molecule Device. <i>Chinese Journal of Chemistry</i> , 2019 , 37, 897-902	4.9	8
51	Frontispiece: Point Decoration of Silicon Nanowires: An Approach Toward Single-Molecule Electrical Detection. <i>Angewandte Chemie - International Edition</i> , 2014 , 53,	16.4	8
50	Efficient Fabrication of Stable Graphene-Molecule-Graphene Single-Molecule Junctions at Room Temperature. <i>ChemPhysChem</i> , 2018 , 19, 2258-2265	3.2	7
49	Fabrication and functions of graphene-molecule-graphene single-molecule junctions. <i>Journal of Chemical Physics</i> , 2020 , 152, 120902	3.9	6
48	Real-time observation of the dynamics of an individual rotaxane molecular shuttle using a single-molecule junction. <i>CheM</i> , 2021 ,	16.2	6
47	Atomically Precise Engineering of Single-Molecule Stereoelectronic Effect. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12274-12278	16.4	6
46	Single-molecule electrical spectroscopy of organocatalysis. <i>Matter</i> , 2021 , 4, 2874-2885	12.7	6
45	Single-Molecule Junction: A Reliable Platform for Monitoring Molecular Physical and Chemical Processes.. <i>ACS Nano</i> , 2022 ,	16.7	6
44	High-Efficiency Photovoltaic Conversion at Selective Electron Tunneling Heterointerfaces. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700211	6.4	5
43	Interface-engineered charge separation at selective electron tunneling heterointerfaces. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2125-2131	7.8	5

42	Recent progress in single-molecule transistors: their designs, mechanisms and applications. <i>Journal of Materials Chemistry C</i> ,	7.1	5
41	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
40	Direct Measurement of Single-Molecule DNA Hybridization Dynamics with Single-Base Resolution. <i>Angewandte Chemie</i> , 2016 , 128, 9182-9186	3.6	5
39	Structural Transition Dynamics in Carbon Electrode-Based Single-Molecule Junctions. <i>Chinese Journal of Chemistry</i> , 2021 , 39, 223-231	4.9	5
38	Dual-gated single-molecule field-effect transistors beyond Moore's law.. <i>Nature Communications</i> , 2022 , 13, 1410	17.4	5
37	Single-molecule field effect and conductance switching driven by electric field and proton transfer.. <i>Science Advances</i> , 2022 , 8, eabm3541	14.3	5
36	Molecular Electronics: Challenges and Opportunities. <i>AIMS Materials Science</i> , 2014 , 1, 11-14	1.9	4
35	Building nanogapped graphene electrode arrays by electroburning.. <i>RSC Advances</i> , 2018 , 8, 6814-6819	3.7	3
34	Recent Advances in Photochemical Reactions on Single-Molecule Electrical Platforms.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200017	4.8	3
33	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
32	Crystallization Mechanism of 9,9-Diphenyl-dibenzosilole from Solids. <i>ChemPhysChem</i> , 2020 , 21, 181-186	3.2	3
31	Principles of Molecular Machines at the Single-Molecule Scale	1484-1502	3
30	Molecular Engineering: A Key Route to Improve the Performance of Molecular Devices. <i>Matter</i> , 2020 , 2, 284-285	12.7	2
29	Revealing Interface-Assisted Charge-Transfer Mechanisms by Using Silicon Nanowires as Local Probes. <i>Angewandte Chemie</i> , 2013 , 125, 3453-3457	3.6	2
28	Unravelling Structural Dynamics within a Photoswitchable Single Peptide: A Step Towards Multimodal Bioinspired Nanodevices. <i>Angewandte Chemie</i> , 2020 , 132, 22743-22751	3.6	2
27	Temperature-Triggered Supramolecular Assembly of Organic Semiconductors. <i>Advanced Materials</i> , 2021 , e2101487	24	2
26	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
25	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

24	Cross-Scale Synthesis of Organic High- Semiconductors Based on Spiro-Gridized Nanopolymers.. <i>Research</i> , 2022 , 2022, 9820585	7.8	1
23	Accurate Single-Molecule Indicator of Solvent Effects.. <i>Jacs Au</i> , 2021 , 1, 2271-2279		1
22	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
21	Precise Control of Interfacial Charge Transport for Building Functional Optoelectronic Devices. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800358	6.8	1
20	Origin and mechanism analysis of asymmetric current fluctuations in single-molecule junctions.. <i>RSC Advances</i> , 2018 , 8, 39408-39413	3.7	1
19	Stochastic Binding Dynamics of a Photoswitchable Single Supramolecular Complex.. <i>Advanced Science</i> , 2022 , e2200022	13.6	1
18	Single-Molecule Fullerenes: Current Stage and Perspective	1037-1052	1
17	Complete Mapping of DNA-Protein Interactions at the Single-Molecule Level. <i>Advanced Science</i> , 2021 , 8, e2101383	13.6	0
16	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
15	Dipole-improved gating of azulene-based single-molecule transistors. <i>Journal of Materials Chemistry C</i> ,	7.1	0
14	Single-molecule optoelectronic devices: physical mechanism and beyond. <i>Opto-Electronic Advances</i> , 2022 , 5, 210094-210094	6.5	0
13	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	
12	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	
11	Summary and Perspectives	2020, 375-388	
10	Other Electrodes for Molecular Electronics	2020, 113-117	
9	Novel Phenomena in Single-Molecule Junctions	2020, 119-135	
8	Theoretical Aspects for Electron Transport Through Molecular Junctions	2020, 209-224	
7	Metal Electrodes for Molecular Electronics	2020, 7-91	

- 6 Supramolecular Interactions in Single-Molecule Junctions **2020**, 137-155
- 5 Characterization Techniques for Molecular Electronics **2020**, 157-207
- 4 Integrating Molecular Functionalities into Electrical Circuits **2020**, 225-374
- 3 Carbon Electrodes for Molecular Electronics **2020**, 93-112
- 2 Atomically Precise Engineering of Single-Molecule Stereoelectronic Effect. *Angewandte Chemie*, **2021**, 133, 12382-12386 3.6
- 1 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}