Dong Xiang

List of Publications by Citations

50 papers	1,542 citations	16 h-index	39 g-index
56 ext. papers	1,831 ext. citations	10.2 avg, IF	4.8 L-index

#	Paper	IF	Citations
50	Molecular-Scale Electronics: From Concept to Function. *Chemical Reviews*, **2016**, 116, 4318-440	68.1	746
49	Mechanically controllable break junctions for molecular electronics. *Advanced Materials*, **2013**, 25, 4845-67	24	147
48	High-Yield Functional Molecular Electronic Devices. *ACS Nano*, **2017**, 11, 6511-6548	16.7	95
47	Three-terminal single-molecule junctions formed by mechanically controllable break junctions with side gating. *Nano Letters*, **2013**, 13, 2809-13	11.5	85
46	Redox-Induced Asymmetric Electrical Characteristics of Ferrocene-Alkanethiolate Molecular Devices on Rigid and Flexible Substrates. *Advanced Functional Materials*, **2014**, 24, 2472-2480	15.6	59
45	The synthesis and electrochemical performance of core-shell structured Ni-Al layered double hydroxide/carbon nanotubes composites. *Electrochimica Acta*, **2016**, 222, 185-193	6.7	39
44	Advance of Mechanically Controllable Break Junction for Molecular Electronics. *Topics in Current Chemistry*, **2017**, 375, 61	7.2	32
43	Gap size dependent transition from direct tunneling to field emission in single molecule junctions. *Chemical Communications*, **2011**, 47, 4760-2	5.8	32
42	Single-Atom Switches and Single-Atom Gaps Using Stretched Metal Nanowires. *ACS Nano*, **2016**, 10, 9695-9702	16.7	32
41	Origin of discrete current fluctuations in a single molecule junction. *Nanoscale*, **2014**, 6, 13396-401	7.7	27
40	Towards single-molecule optoelectronic devices. *Science China Chemistry*, **2018**, 61, 1368-1384	7.9	25
39	Fabricating Atom-Sized Gaps by Field-Aided Atom Migration in Nanoscale Junctions. *Physical Review Applied*, **2018**, 9,	4.3	23
38	Shaping the Atomic-Scale Geometries of Electrodes to Control Optical and Electrical Performance of Molecular Devices. *Small*, **2018**, 14, e1703815	11	19
37	Atomic switches of metallic point contacts by plasmonic heating. *Light: Science and Applications*, **2019**, 8, 34	16.7	17
36	A new approach for high-yield metal-molecule-metal junctions by direct metal transfer method. *Nanotechnology*, **2015**, 26, 025601	3.4	16
35	Unidirectional Real-Time Photoswitching of Diarylethene Molecular Monolayer Junctions with Multilayer Graphene Electrodes. *ACS Applied Materials & Interfaces*, **2019**, 11, 11645-11653	9.5	16
34	Investigation of inelastic electron tunneling spectra of metal-molecule-metal junctions fabricated using direct metal transfer method. *Applied Physics Letters*, **2015**, 106, 063110	3.4	15

33	Molecular Orbital Gating Surface-Enhanced Raman Scattering. *ACS Nano*, **2018**, 12, 11229-11235	16.7	14
32	Enhanced conversion efficiency of dye-sensitized solar cells using a CNT-incorporated TiO2 slurry-based photoanode. *AIP Advances*, **2015**, 5, 027118	1.5	13
31	Molecular junctions bridged by metal ion complexes. *Chemistry - A European Journal*, **2011**, 17, 13166-9	4.8	13
30	Mechanical modulation of terahertz wave via buckled carbon nanotube sheets. *Optics Express*, **2018** , 26, 28738-28750	3.3	13
29	Influence of Cu on Ga diffusion during post-selenizing the electrodeposited Cu/In/Ga metallic precursor process. *Solar Energy Materials and Solar Cells*, **2018**, 182, 92-97	6.4	9
28	Stable high absorption metamaterial for wide-angle incidence of terahertz wave. *Journal of Modern Optics*, **2014**, 61, 621-625	1.1	8
27	photoconductivity measurements of imidazole in optical fiber break-junctions. *Nanoscale Horizons*, **2021**, 6, 386-392	10.8	8
26	An on-chip hybrid plasmonic light steering concentrator with ~96% coupling efficiency. *Nanoscale*, **2018**, 10, 5097-5104	7.7	6
25	Statistical investigation of the length-dependent deviations in the electrical characteristics of molecular electronic junctions fabricated using the direct metal transfer method. *Journal of Physics Condensed Matter*, **2016**, 28, 094003	1.8	6
24	Crystal Size Effect on Carrier Transport of Microscale Perovskite Junctions via Soft Contact. *Nano Letters*, **2020**, 20, 8640-8646	11.5	5
23	In-situ control of on-chip angstrom gaps, atomic switches, and molecular junctions by light irradiation. *Nano Today*, **2021**, 39, 101226	17.9	5
22	Real-Time Conformational Change Monitoring of G-Quadruplex Using Capillary-Based Biocompatible Whispering Gallery Mode Microresonator. *IEEE Sensors Journal*, **2020**, 20, 12558-12564	4	4
21	A crucial step for molecular-scale electronics: a stable and reversible single-molecule switch. *National Science Review*, **2017**, 4, 666-667	10.8	2
20	On-Chip Break Junctions and Period-Adjustable Grating Driven by Thermal Stress. *Nano*, **2017**, 12, 1750139	1.1	2
19	Molecular Electronics: Mechanically Controllable Break Junctions for Molecular Electronics (Adv. Mater. 35/2013). *Advanced Materials*, **2013**, 25, 4818-4818	24	2
18	Reversible Rectification of Microscale Ferroelectric Junctions Employing Liquid Metal Electrodes. *ACS Applied Materials & Interfaces*, **2021**, 13, 29885-29893	9.5	2
17	Advance of Mechanically Controllable Break Junction for Molecular Electronics. *Topics in Current Chemistry Collections*, **2019**, 45-86	1.8	2
16	Molecular Electronics: Redox-Induced Asymmetric Electrical Characteristics of Ferrocene-Alkanethiolate Molecular Devices on Rigid and Flexible Substrates (Adv. Funct. Mater. 17/2014). *Advanced Functional Materials*, **2014**, 24, 2564-2564	15.6	1

15	Molecular Devices: Shaping the Atomic-Scale Geometries of Electrodes to Control Optical and Electrical Performance of Molecular Devices (Small 15/2018). *Small*, **2018**, 14, 1870066	11	1
14	Fabricating Methods and Materials for Nanogap Electrodes **2021**, 57-187		0
13	Single-molecule optoelectronic devices: physical mechanism and beyond. *Opto-Electronic Advances*, **2022**, 5, 210094-210094	6.5	0
12	Single-molecule devices reveal step-by-step dynamics of hydrogen bonds. *Science China Chemistry*, **2018**, 61, 639-640	7.9	
11	Polarization-dependent colored conical emission in a quadratically nonlinear medium. *Optics Communications*, **2012**, 285, 3316-3319	2	
10	Summary and Perspectives **2020**, 375-388		
9	Other Electrodes for Molecular Electronics **2020**, 113-117		
8	Novel Phenomena in Single-Molecule Junctions **2020**, 119-135		
7	Theoretical Aspects for Electron Transport Through Molecular Junctions **2020**, 209-224		
6	Metal Electrodes for Molecular Electronics **2020**, 7-91		
5	Supramolecular Interactions in Single-Molecule Junctions **2020**, 137-155		
4	Characterization Techniques for Molecular Electronics **2020**, 157-207		
3	Integrating Molecular Functionalities into Electrical Circuits **2020**, 225-374		
2	Carbon Electrodes for Molecular Electronics **2020**, 93-112		
1	A Mechanical Single-molecule Potentiometer Based on Foldamer. *Chemical Research in Chinese Universities*, **2021**, 37, 335-336	2.2	