Xiao-Shun Zhou

List of Publications by Year
in descending order

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		201575	82499
92	5,383	27	72
papers	citations	h-index	g-index

95	95	95	6747
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Selectively recognizing extrahelical conformations of DNA trinucleotide repeats by a hydroxylated porphyrin ligand. Analytica Chimica Acta, 2022, 1190, 339265.	2.6	2
2	Substituent-mediated quantum interference toward a giant single-molecule conductance variation. Nanotechnology, 2022, 33, 095201.	1.3	1
3	Influence of a Coordinated Metal Center on Charge Transport through a Series of Porphyrin Molecular Junctions. Journal of Physical Chemistry C, 2022, 126, 1168-1175.	1.5	4
4	Exploration of Metal-Molecule interaction of subnanometric heterogeneous catalysts via simulated Raman spectrum. Applied Surface Science, 2022, 579, 152194.	3.1	2
5	Visualizing an Electrochemically Induced Radical Cation of Bipyridine at Au(111)/Ionic Liquid Interfaces toward a Single-Molecule Switch. Analytical Chemistry, 2022, 94, 1823-1830.	3.2	9
6	Tuning the binding configurations of single-molecule junctions by molecular co-assembly. Chemical Communications, 2022, 58, 4962-4965.	2.2	3
7	Electrochemically activated carbonâ€“halogen bond cleavage and Câ€“C coupling monitored by in situ shell-isolated nanoparticle-enhanced Raman spectroscopy. Analyst, The, 2022, 147, 1341-1347.	1.7	6
8	In Situ Raman Monitoring of Potential-Dependent Adlayer Structures on the Au(111)/Ionic Liquid Interface. Langmuir, 2022, 38, 6209-6216.	1.6	6
9	Enhanced Gating Performance of Single-Molecule Conductance by Heterocyclic Molecules. Journal of Physical Chemistry Letters, 2021, 12, 758-763.	2.1	33
10	G-quadruplex apurinic site-programmed chiral cyanine assemblies for specifically recognizing guanosine and guanine. Analyst, The, 2021, 146, 5866-5872.	1.7	1
11	A catalytic triplex DNAzyme for porphyrin metalation. Chemical Communications, 2021, 57, 6499-6502.	2.2	4
12	z-Piezo Pulse-Modulated STM Break Junction: Toward Single-Molecule Rectifiers with Dissimilar Metal Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 8656-8663.	4.0	15
13	Temperature-Dependent Tunneling in Furan Oligomer Single-Molecule Junctions. ACS Sensors, 2021, 6, 565-572.	4.0	5
14	Plasmonic Coreâ€“Shell Nanomaterials and their Applications in Spectroscopies. Advanced Materials, 2021, 33, e2005900.	11.1	50
15	Probing Interfacial Electronic Effects on Singleâ€Molecule Adsorption Geometry and Electron Transport at Atomically Flat Surfaces. Angewandte Chemie - International Edition, 2021, 60, 15452-15458.	7.2	31
16	Probing Interfacial Electronic Effects on Singleâ€Molecule Adsorption Geometry and Electron Transport at Atomically Flat Surfaces. Angewandte Chemie, 2021, 133, 15580-15586.	1.6	1
17	Revealing Supramolecular Interactions and Electron Transport in Single Molecular Junctions of Cucurbit[n]uril. Advanced Electronic Materials, 2021, 7, 2100399.	2.6	10
18	Single-molecule anisotropic magnetoresistance at room temperature: Influence of molecular structure. Electrochimica Acta, 2021, 389, 138760.	2.6	10

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19	Mechanically Induced Switching between Two Discrete Conductance States: A Potential Single-Molecule Variable Resistor. ACS Applied Materials & Interfaces, 2021, 13, 57646-57653.	4.0	16
20	Stimuliâ€Responsive and Reversible Nanoassemblies of Gâ€Triplexes. ChemBioChem, 2021, , .	1.3	0
21	Gâ€Quadruplexâ€Based Photooxidase Driven by Visible Light. ChemCatChem, 2020, 12, 169-174.	1.8	7
22	Direct In Situ Raman Spectroscopic Evidence of Oxygen Reduction Reaction Intermediates at High-Index Pt(hkl) Surfaces. Journal of the American Chemical Society, 2020, 142, 715-719.	6.6	154
23	Improving Gating Efficiency of Electron Transport through Redoxâ€Active Molecular Junctions with Conjugated Chains. ChemElectroChem, 2020, 7, 1337-1341.	1.7	13
24	Single-Molecule Sensing of Interfacial Acidâ€“Base Chemistry. Journal of Physical Chemistry Letters, 2020, 11, 10023-10028.	2.1	20
25	Metalloenzyme-mimic innate G-quadruplex DNAzymes using directly coordinated metal ions as active centers. Dalton Transactions, 2020, 49, 13160-13166.	1.6	2
26	Constructing Dual-Molecule Junctions to Probe Intermolecular Crosstalk. ACS Applied Materials & Interfaces, 2020, 12, 30584-30590.	4.0	7
27	Modulating electron transport through single-molecule junctions by heteroatom substitution. Journal of Materials Chemistry C, 2020, 8, 6826-6831.	2.7	15
28	Achieving Efficient Multichannel Conductance in Throughâ€Space Conjugated Singleâ€Molecule Parallel Circuits. Angewandte Chemie, 2020, 132, 4611-4618.	1.6	5
29	Achieving Efficient Multichannel Conductance in Throughâ€Space Conjugated Singleâ€Molecule Parallel Circuits. Angewandte Chemie - International Edition, 2020, 59, 4581-4588.	7.2	36
30	Unique Metal Cation Recognition via Crown Ether-Derivatized Oligo(phenyleneethynylene) Molecular Junction. Journal of Physical Chemistry C, 2020, 124, 8496-8503.	1.5	20
31	Controlling Contact Configuration of Carboxylic Acid-Based Molecular Junctions Through Side Group. Nanoscale Research Letters, 2019, 14, 253.	3.1	4
32	Inâ€…situ Spectroscopic Insight into the Origin of the Enhanced Performance of Bimetallic Nanocatalysts towards the Oxygen Reduction Reaction (ORR). Angewandte Chemie, 2019, 131, 16208-16212.	1.6	26
33	Inâ€…situ Spectroscopic Insight into the Origin of the Enhanced Performance of Bimetallic Nanocatalysts towards the Oxygen Reduction Reaction (ORR). Angewandte Chemie - International Edition, 2019, 58, 16062-16066.	7.2	135
34	Polarity inversion sensitized G-quadruplex metal sensors with K+ tolerance. Biosensors and Bioelectronics, 2019, 145, 111703.	5.3	13
35	Target-switched triplex nanotweezer and synergic fluorophore translocation for highly selective melamine assay. Mikrochimica Acta, 2019, 186, 42.	2.5	5
36	Comparative Study of Single Molecular Junctions with Para-Phthalic Acid and Meta-Phthalic Acid Binding to Different Metal Electrodes. Journal of Nanoscience and Nanotechnology, 2019, 19, 2794-2798.	0.9	1

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37	G-Quadruplex DNA with an Apurinic Site as a Soft Molecularly Imprinted Sensing Platform. Analytical Chemistry, 2018, 90, 5552-5556.	3.2	17
38	Precise tuning of single molecule conductance in an electrochemical environment. Nanoscale, 2018, 10, 7026-7032.	2.8	15
39	Low Tunneling Decay of Iodine-Terminated Alkane Single-Molecule Junctions. Nanoscale Research Letters, 2018, 13, 121.	3.1	12
40	Controlling and Observing Sharp-Valleyed Quantum Interference Effect in Single Molecular Junctions. Journal of the American Chemical Society, 2018, 140, 17685-17690.	6.6	84
41	Supramolecularly Multicolor DNA Decoding Using an Indicator Competition Assay. Analytical Chemistry, 2018, 90, 13183-13187.	3.2	16
42	Side-Group Effect on Electron Transport of Single Molecular Junctions. Micromachines, 2018, 9, 234.	1.4	7
43	Probing Interfacial Electronic and Catalytic Properties on Wellâ€Defined Surfaces by Using Inâ€…Situ Raman Spectroscopy. Angewandte Chemie, 2018, 130, 11427-11431.	1.6	19
44	Probing Interfacial Electronic and Catalytic Properties on Wellâ€Defined Surfaces by Using Inâ€…Situ Raman Spectroscopy. Angewandte Chemie - International Edition, 2018, 57, 11257-11261.	7.2	60
45	Structuring polarity-inverted TBA to G-quadruplex for selective recognition of planarity of natural isoquinoline alkaloids. Analyst, The, 2018, 143, 4907-4914.	1.7	9
46	Conductance Measurement of Pyrazine Molecular Junction with Cu and Ag Electrodes. Journal of Nanoscience and Nanotechnology, 2018, 18, 2085-2088.	0.9	1
47	Remarkable Multichannel Conductance of Novel Single-Molecule Wires Built on Through-Space Conjugated Hexaphenylbenzene. Nano Letters, 2018, 18, 4200-4205.	4.5	55
48	Aggregation/dispersion conversion of hypericin by noncanonically structured DNA and a fluorescent Ba2+ sensor. Sensors and Actuators B: Chemical, 2017, 247, 19-25.	4.0	12
49	Influence of Molecular Structure on Contact Interaction between Thiophene Anchoring Group and Au Electrode. Journal of Physical Chemistry C, 2017, 121, 1472-1476.	1.5	19
50	Prototropically Allosteric Probe for Superbly Selective DNA Analysis. Analytical Chemistry, 2017, 89, 9299-9306.	3.2	12
51	Adaptively Recognizing Parallel-Stranded Duplex Structure for Fluorescent DNA Polarity Analysis. Analytical Chemistry, 2017, 89, 8604-8608.	3.2	12
52	Detecting Electron Transport of Amino Acids by Using Conductance Measurement. Sensors, 2017, 17, 811.	2.1	14
53	Fluorescently Sensing of DNA Triplex Assembly Using an Isoquinoline Alkaloid as Selector, Stabilizer, Inducer, and Switchâ€On Emitter. Chemistry - an Asian Journal, 2016, 11, 2041-2048.	1.7	13
54	Quantum interference effect of single-molecule conductance influenced by insertion of different alkyl length. Electrochemistry Communications, 2016, 68, 86-89.	2.3	12

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55	Capability of ds-DNA duplex structure in growing fluorescent silver nanoclusters. Journal of Luminescence, 2016, 179, 550-554.	1.5	7
56	Comparative Study on Single-Molecule Junctions of Alkane- and Benzene-Based Molecules with Carboxylic Acid/Aldehyde as the Anchoring Groups. Nanoscale Research Letters, 2016, 11, 380.	3.1	6
57	Transient electrochemistry: beyond simply temporal resolution. Chemical Communications, 2016, 52, 251-263.	2.2	42
58	Recognition of DNA abasic site nanocavity by fluorophore-switched probe: Suitable for all sequence environments. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 153, 645-650.	2.0	11
59	Specific G-quadruplex structure recognition of human telomeric RNA over DNA by a fluorescently activated hyperporphyrin. Analyst, The, 2015, 140, 5169-5175.	1.7	14
60	Single-molecule conductance with nitrile and amino contacts with Ag or Cu electrodes. Electrochimica Acta, 2015, 174, 340-344.	2.6	7
61	Multichannel Conductance of Folded Singleâ€Molecule Wires Aided by Throughâ€Space Conjugation. Angewandte Chemie - International Edition, 2015, 54, 4231-4235.	7.2	92
62	Triggered Excited-State Intramolecular Proton Transfer Fluorescence for Selective Triplex DNA Recognition. Analytical Chemistry, 2015, 87, 11620-11624.	3.2	46
63	The binding sites of carboxylic acid group contacting to Cu electrode. Electrochemistry Communications, 2015, 59, 48-51.	2.3	6
64	Electrochemical performance of microdisc-shaped carbon-coated lithium iron phosphate with preferentially exposed (010) planes in lithium sulfate aqueous solution. Electrochimica Acta, 2015, 158, 342-347.	2.6	11
65	Giant Single-Molecule Anisotropic Magnetoresistance at Room Temperature. Journal of the American Chemical Society, 2015, 137, 5923-5929.	6.6	31
66	Single-Molecule Junction Conductance of Terephthalic Acid Contacting Ag and Cu Electrodes Measured by an Electrochemical Method. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2015, 31, 105-110.	2.2	1
67	Single-molecule conductance of dipyridines binding to Ag electrodes measured by electrochemical scanning tunneling microscopy break junction. Nanoscale Research Letters, 2014, 9, 77.	3.1	6
68	Enhancing electron transport in molecular wires by insertion of a ferrocene center. Physical Chemistry Chemical Physics, 2014, 16, 2260.	1.3	36
69	Gold atomic contact: Electron conduction in the presence of interfacial charge transfer. Electrochemistry Communications, 2014, 47, 41-44.	2.3	2
70	Tunneling Decay Constant of Alkanedicarboxylic Acids: Different Dependence on the Metal Electrodes between Air and Electrochemistry. Journal of Physical Chemistry C, 2014, 118, 18756-18761.	1.5	26
71	Conductance measurement of carboxylic acids binding to palladium nanoclusters by electrochemical jump-to-contact STM break junction. Electrochimica Acta, 2014, 123, 205-210.	2.6	31
72	Conductance of alkyl-based molecules with one, two and three chains measured by electrochemical STM break junction. Electrochemistry Communications, 2014, 45, 83-86.	2.3	18

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73	Correlating conductance and structure of silver nano-contacts created by jump-to-contact STM break junction. Journal of Electroanalytical Chemistry, 2013, 688, 257-261.	1.9	10
74	Conductance measurement of pyridyl-based single molecule junctions with Cu and Au contacts. Nanotechnology, 2013, 24, 465204.	1.3	18
75	Electrical conductance study on 1,3-butadiyne-linked dinuclear ruthenium(ii) complexes within single molecule break junctions. Chemical Science, 2013, 4, 2471.	3.7	81
76	Stretching single atom contacts at multiple subatomic step-length. Physical Chemistry Chemical Physics, 2013, 15, 12459.	1.3	8
77	Single Molecule Conductance of Carboxylic Acids Contacting Ag and Cu Electrodes. Journal of Physical Chemistry C, 2012, 116, 21699-21705.	1.5	51
78	Revealing the molecular structure of single-molecule junctions in different conductance states by fishing-mode tip-enhanced Raman spectroscopy. Nature Communications, 2011, 2, 305.	5.8	227
79	Coreâ€“shell nanoparticle based SERS from hydrogen adsorbed on a rhodium(111) electrode. Chemical Communications, 2011, 47, 2023.	2.2	54
80	Do Molecular Conductances Correlate with Electrochemical Rate Constants? Experimental Insights. Journal of the American Chemical Society, 2011, 133, 7509-7516.	6.6	114
81	Synthesis and Characterization of Gold Nanoparticles Coated with Ultrathin and Chemically Inert Dielectric Shells for SHINERS Applications. Applied Spectroscopy, 2011, 65, 620-626.	1.2	52
82	An electrochemical jump-to-contact STM-break junction approach to construct single molecular junctions with different metallic electrodes. Electrochemistry Communications, 2011, 13, 407-410.	2.3	36
83	Electrochemically Assisted Fabrication of Metal Atomic Wires and Molecular Junctions by MCBJ and STMâ€BJ Methods. ChemPhysChem, 2010, 11, 2745-2755.	1.0	38
84	Shell-isolated nanoparticle-enhanced Raman spectroscopy. Nature, 2010, 464, 392-395.	13.7	3,025
85	The Creation of Nanostructures on an Au(111) Electrode by Tipâ€Induced Iron Deposition from an Ionic Liquid. Small, 2008, 4, 1355-1358.	5.2	33
86	An STM Study on Nonionic Fluorosurfactant Zonyl FSN Self-Assembly on Au(111): Large Domains, Few Defects, and Good Stability. Langmuir, 2008, 24, 13245-13249.	1.6	22
87	Extending the Capability of STM Break Junction for Conductance Measurement of Atomic-Size Nanowires: An Electrochemical Strategy. Journal of the American Chemical Society, 2008, 130, 13228-13230.	6.6	65
88	Single Molecule Conductance of Dipyridines with Conjugated Ethene and Nonconjugated Ethane Bridging Group. Journal of Physical Chemistry C, 2008, 112, 3935-3940.	1.5	52
89	Self-Assembly of a Rh(I) Complex on Au(111) Surfaces and Its Electrocatalytic Activity toward the Hydrogen Evolution Reaction. Langmuir, 2007, 23, 6819-6826.	1.6	13
90	A simple facet-based method for single crystal electrochemical study. Electrochemistry Communications, 2007, 9, 2716-2720.	2.3	6

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91	Adsorption of Metal-Organic Complex Molecule on Au(111) Surface. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2005, 21, 949-951.	2.2	0
92	Electrochemistry to record single events. SPR Electrochemistry, 0, , 1-33.	0.7	0