Guang-Ping Zhang

List of Publications by Year
in descending order

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93 papers	1,207 citations	361413 20 h-index	552781 26 g-index
93 all docs	93 docs citations	93 times ranked	885 citing authors

#	Article	IF	Citations
1	Effect of crystallographic orientations on transport properties of methylthiol-terminated permethyloligosilane molecular junction. Chinese Physics B, 2022, 31, 077303.	1.4	2
2	Intelligent SERS Navigation System Guiding Brain Tumor Surgery by Intraoperatively Delineating the Metabolic Acidosis. Advanced Science, 2022, 9, e2104935.	11.2	20
3	Design of multifunctional spin logic gates based on manganese porphyrin molecules connected to graphene electrodes. Physical Chemistry Chemical Physics, 2022, 24, 1849-1859.	2.8	6
4	Mechanism of length-induced magnetism in polyacene molecules. Physical Review B, 2022, 105, .	3.2	4
5	Molecular rectification assisted by spin-polarized hybrid interfacial states. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, , 128200.	2.1	1
6	Adsorption-site-dependent magnetic and electronic properties for single- or double-fluorine-atom adsorbed boron nitride nanotubes and their possible applications in spin filters. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 389, 127071.	2.1	1
7	A first-principles study of phthalocyanine-based multifunctional spintronic molecular devices. Physical Chemistry Chemical Physics, 2021, 23, 18760-18769.	2.8	14
8	The contact barrier of a 1Tâ€²/2H MoS2 heterophase bilayer and its modulation by adatom and strain: a first-principles study. Physical Chemistry Chemical Physics, 2021, 23, 6791-6799.	2.8	2
9	Doping-induced large spin-filter behavior and rectification behavior in zigzag graphene nano-ribbon junction. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 128, 114542.	2.7	22
10	Greatly improving the rectifying performance of single-molecule diodes through molecular structure design and electrode material optimization. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 130, 114691.	2.7	6
11	Electric field induced magnetism decline in organic ferromagnets. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 131, 114729.	2.7	3
12	A Versatile Theranostic Platform for Colorectal Cancer Peritoneal Metastases: Realâ€Time Tumorâ€Tracking and Photothermalâ€Enhanced Chemotherapy. Advanced Science, 2021, 8, e2102256.	11.2	16
13	Length-induced large magnetoresistance in polyacene molecular spin valves. Results in Physics, 2021, 27, 104510.	4.1	4
14	Large Rectification Ratio of up to 106 for Conjugation-Group-Terminated Undecanethiolate Single-Molecule Diodes on Pt Electrodes. Journal of Physical Chemistry C, 2021, 125, 20783-20790.	3.1	4
15	Theoretically study on the electronic and transport properties of the metallic 2D material/WS2 heterojunction. Physica B: Condensed Matter, 2021, 618, 413176.	2.7	1
16	Designing multifunctional single-molecule devices by mononuclear or binuclear manganese phthalocyanines. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114896.	2.7	9
17	Modulation of hybrid interface states and magnetoresistance in quantum interference systems via functional groups. Journal of Magnetism and Magnetic Materials, 2021, 537, 168138.	2.3	4
18	Site-dependent spin-polarized tunneling via hybrid interface states on molecule/ferromagnet surface. Physica E: Low-Dimensional Systems and Nanostructures, 2021, , 115071.	2.7	0

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19	Tunneling magnetoresistance in ferromagnet/organic-ferromagnet/metal junctions. Chinese Physics B, 2020, 29, 017303.	1.4	7
20	Magnetic manipulation of orbital hybridization and magnetoresistance in organic ferromagnetic co-oligomers. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114327.	2.7	5
21	Asymmetrically flexoelectric gating effect of Janus transition-metal dichalcogenides and their sensor applications. Journal of Materials Chemistry C, 2020, 8, 11457-11467.	5.5	15
22	Anisotropic interfacial properties of monolayer C₂N field effect transistors. Physical Chemistry Chemical Physics, 2020, 22, 28074-28085.	2.8	9
23	Protonation control of spin transport properties in magnetic single-molecule junctions. Journal of Materials Science, 2020, 55, 16311-16322.	3.7	7
24	Manipulating Current Spin Polarization in Magnetic Single-Molecule Junctions via Destructive Quantum Interference. Journal of Physical Chemistry C, 2020, 124, 12144-12152.	3.1	18
25	Carry-On Nitric-Oxide Luggage for Enhanced Chemotherapeutic Efficacy. Nano Letters, 2020, 20, 5275-5283.	9.1	23
26	Mechanism Study of Molecular Deformation of 2,2â€²,5â€²,2â€³-Tetramethylated p-Terphenyl-4,4â€³-dithiol Trapped in Gold Junctions. Journal of Physical Chemistry Letters, 2020, 11, 4456-4461.	4.6	5
27	Theoretically exploring the possible configurations, the electronic and transport properties of MoS2-OH bilayer. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126575.	2.1	1
28	Weak-field polaron dynamics in organic ferromagnets. Physical Chemistry Chemical Physics, 2020, 22, 15707-15715.	2.8	4
29	Pervasive Ohmic contacts of monolayer 4-hT2 graphdiyne transistors. Nanotechnology, 2020, 31, 225705.	2.6	10
30	Odd-even effect of the switching performance for dimethyldihydropyrene/cyclophanediene single-molecule switch modulated by carbon atomic chains. Organic Electronics, 2020, 81, 105665.	2.6	6
31	Co-delivery of Cu(I) chelator and chemotherapeutics as a new strategy for tumor theranostic. Journal of Controlled Release, 2020, 321, 483-496.	9.9	27
32	Modulation of spin thermoelectric properties in transition metal porphyrin single-molecule spin caloritronic devices by Fano resonance. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 121, 114129.	2.7	5
33	Theoretical design of single-molecule NOR and XNOR logic gates by using transition metal dibenzotetraaza[14]annulenes*. Chinese Physics B, 2020, 29, 067202.	1.4	7
34	Low-bias conductance mechanism of diarylethene isomers: A first-principle study. Chinese Journal of Chemical Physics, 2020, 33, 697-702.	1.3	6
35	The grain boundary effect on mechanical and electronic transport properties of a striped borophene. Physical Chemistry Chemical Physics, 2020, 22, 21844-21850.	2.8	7
36	Modulating hybrid interface states in magnetic molecular junctions by molecular geometrical torsion. Journal of Magnetism and Magnetic Materials, 2019, 489, 165465.	2.3	7

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37	Multistate magnetoresistance in zigzag-edge trigonal graphene magnetic junctions. Journal of Materials Science, 2019, 54, 5551-5560.	3.7	5
38	Bias and molecular-length dependent oddâ€“even effect of rectification in 4â€²-methyl-2,2â€²-bipyridyl-terminated n-alkanethiolate single-molecule diodes. Journal of Materials Chemistry C, 2019, 7, 9000-9007.	5.5	7
39	Suspended CNT-Based FET sensor for ultrasensitive and label-free detection of DNA hybridization. Biosensors and Bioelectronics, 2019, 137, 255-262.	10.1	46
40	Robust staggered band alignment in one-dimensional van der Waals heterostructures: binary compound nanoribbons in nanotubes. Journal of Materials Chemistry C, 2019, 7, 3829-3836.	5.5	8
41	Enhancement of magnetoresistance and current spin polarization in single-molecule junctions by manipulating the hybrid interface states via anchoring groups. Journal of Magnetism and Magnetic Materials, 2019, 479, 247-253.	2.3	20
42	Surface engineering of phosphorene nanoribbons by transition metal heteroatoms for spintronics. Physical Chemistry Chemical Physics, 2019, 21, 4879-4887.	2.8	21
43	Pre-blocked molecular shuttle as an in-situ real-time theranostics. Biomaterials, 2019, 204, 46-58.	11.4	6
44	Optimizing the conductance switching performance in photoswitchable dimethyldihydropyrene/cyclophanediene single-molecule junctions. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 109, 1-5.	2.7	21
45	Controlling Rectification Performance by Tuning Moleculeâ€“Electrode Coupling Strength in Ferrocenyl-Undecanethiolate Molecular Diodes. Journal of Physical Chemistry C, 2019, 123, 1559-1565.	3.1	9
46	Doping-induced negative differential conductance enhancement in single-molecule junction. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 106, 270-276.	2.7	17
47	Controlling the conductance of single-molecule junctions with high spin filtering efficiency by intramolecular proton transfer. Organic Electronics, 2019, 64, 7-14.	2.6	12
48	A targeting theranostics nanomedicine as an alternative approach for hyperthermia perfusion. Biomaterials, 2018, 183, 268-279.	11.4	27
49	Polarons in organic ferromagnets. Organic Electronics, 2018, 55, 133-139.	2.6	14
50	Designing molecular rectifiers and spin valves using metallocene-functionalized undecanethiolates: one transition metal atom matters. Journal of Materials Chemistry C, 2018, 6, 2105-2112.	5.5	36
51	Azulene-like molecular devices with high spin filtering, strong spin rectifying, and giant magnetoresistance effects. Organic Electronics, 2018, 59, 113-120.	2.6	10
52	Ground-state properties of metal/organic-ferromagnet heterojunctions. Physical Review B, 2018, 98, .	3.2	16
53	High magnetoresistance in ultra-thin two-dimensional Cr-based MXenes. Nanoscale, 2018, 10, 19492-19497.	5.6	26
54	Fabricating Atom-Sized Gaps by Field-Aided Atom Migration in Nanoscale Junctions. Physical Review Applied, 2018, 9, .	3.8	31

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55	Effect of molecular conformations on the electronic transport in oxygen-substituted alkanethiol molecular junctions. Journal of Chemical Physics, 2018, 148, 184703.	3.0	5
56	Theoretical understanding of the inversion of rectification direction in ferrocenyl-embedded tridecanethiolate single-molecule rectifiers. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 103, 397-402.	2.7	20
57	Surface-Enhanced Raman Spectroscopy of Two-Dimensional Tin Diselenide Nanoplates. Applied Spectroscopy, 2018, 72, 1613-1620.	2.2	16
58	Modulating spin-dependent electron transport in benzene-dithiolate magnetic junctions by hybrid interface states. Journal Physics D: Applied Physics, 2018, 51, 345302.	2.8	16
59	High-Performance Single-Molecule Switch Designed by Changing Parity of Electronic Wave Functions via Intramolecular Proton Transfer. Journal of Physical Chemistry C, 2018, 122, 17650-17659.	3.1	21
60	Modulation of spatial spin polarization at organic spinterface by side groups. Applied Surface Science, 2018, 427, 416-420.	6.1	8
61	Modulation of organic interfacial spin polarization by interfacial angle. Chemical Physics Letters, 2017, 667, 15-19.	2.6	4
62	Obvious modulation of rectifying performance by conjugation breaking of the bridging fragment in donorâ€“bridgeâ€“acceptor molecular diodes. RSC Advances, 2017, 7, 14200-14205.	3.6	6
63	Is there a specific correlation between conductance and molecular aromaticity in single-molecule junctions?. Organic Electronics, 2017, 48, 29-34.	2.6	14
64	Mechanisms of the odd-even effect and its reversal in rectifying performance of ferrocenyl-n-alkanethiolate molecular diodes. Organic Electronics, 2017, 49, 76-84.	2.6	24
65	Effect of H2O Adsorption on Negative Differential Conductance Behavior of Single Junction. Scientific Reports, 2017, 7, 4195.	3.3	8
66	Tuning the Direction of Rectification by Adjusting the Location of the Bipyridyl Group in Alkanethiolate Molecular Diodes. Journal of Physical Chemistry C, 2017, 121, 7643-7648.	3.1	30
67	Hydrogenation-induced giant rectifying behaviors in silicene and germanene heterojunctions. Computational Materials Science, 2017, 129, 37-43.	3.0	3
68	Towards Rectifying Performance at the Molecular Scale. Topics in Current Chemistry, 2017, 375, 85.	5.8	9
69	Spin Polarization at Organic-Ferromagnetic Interface: Effect of Contact Configuration. Chinese Journal of Chemical Physics, 2016, 29, 344-348.	1.3	11
70	Detecting CO, NO and NO2 gases by Boron-doped graphene nanoribbon molecular devices. Chemical Physics Letters, 2016, 657, 18-25.	2.6	25
71	Rectifying enhancement induced by conjugation breaking in thiolated arylethynylene single-molecular diodes. Chemical Physics Letters, 2016, 663, 74-78.	2.6	4
72	Inversion of spin-current rectification in magnetic co-oligomer diodes. Organic Electronics, 2016, 37, 485-490.	2.6	24

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73	Strong Fermi level pinning induces a high rectification ratio and negative differential resistance in hydrogen bonding bridged single cytidine pair junctions. Physical Chemistry Chemical Physics, 2016, 18, 26586-26594.	2.8	14
74	Giant rectification in graphene nanoflake molecular devices with asymmetric graphene nanoribbon electrodes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 3198-3205.	2.1	18
75	Molecular Design to Enhance the Thermal Stability of a Photo Switchable Molecular Junction Based on Dimethyldihydropyrene and Cyclophanediene Isomerization. Journal of Physical Chemistry C, 2015, 119, 11468-11474.	3.1	14
76	The effect of Duschinsky rotation on charge transport properties of molecular junctions in the sequential tunneling regime. Physical Chemistry Chemical Physics, 2015, 17, 23007-23016.	2.8	8
77	Quasi-Analytical Approach for Modeling of Surface-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2015, 119, 28992-28998.	3.1	13
78	Molecular-length induced inversion of rectification in diblock pyrimidinylâ€“phenyl molecular junctions. Chemical Physics Letters, 2014, 591, 296-300.	2.6	11
79	Proportion effect in diblock co-oligomer molecular diodes. Chemical Physics Letters, 2014, 614, 207-213.	2.6	7
80	Rectifying Properties of Oligo(Phenylene Ethynylene) Heterometallic Molecular Junctions: Molecular Length and Side Group Effects. Scientific Reports, 2014, 4, 6357.	3.3	23
81	Electronic transport properties of oligophenyleneethynylene molecular junctions in alkaline and acid solutions. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 068502.	0.5	2
82	Bias Dependence of Rectifying Direction in a Diblock Co-oligomer Molecule with Graphene Nanoribbon Electrodes. Journal of Physical Chemistry C, 2013, 117, 20951-20957.	3.1	25
83	Protonation and deprotonation effects on charge transports of butane-based molecular junctions. Chemical Physics Letters, 2013, 588, 155-159.	2.6	5
84	Obvious variation of rectification behaviors induced by isomeric anchoring groups for dipyrimidinylâ€“diphenyl molecular junctions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 3228-3234.	2.1	15
85	Stretch or contraction induced inversion of rectification in diblock molecular junctions. Journal of Chemical Physics, 2013, 139, 094702.	3.0	23
86	Effect of Gate Electric Field on Single Organic Molecular Devices. Chinese Journal of Chemical Physics, 2013, 26, 185-190.	1.3	21
87	Theoretical Studies on Protonation-Induced Inversion of the Rectifying Direction in Dipyrimidinylâ€“Diphenyl Diblock Molecular Junctions. Journal of Physical Chemistry C, 2012, 116, 3773-3778.	3.1	36
88	Modulation of Rectification in Diblock Co-oligomer Diodes by Adjusting Anchoring Groups for Both Symmetric and Asymmetric Electrodes. Journal of Physical Chemistry C, 2012, 116, 22009-22014.	3.1	40
89	First-Principles Study on Formation and Electron-Transport Properties of Single Oligothiophene Molecular Junctions. Journal of Physical Chemistry C, 2011, 115, 15586-15591.	3.1	25
90	Length-dependent inversion of rectification in diblock co-oligomer diodes. Applied Physics Letters, 2011, 99, 082105.	3.3	17

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91	The effects of contact configurations on the rectification of dipyrimidinylâ€”diphenyl diblock molecular junctions. Chinese Physics B, 2011, 20, 127304.	1.4	18
92	Hydration effect on the electronic transport properties of oligomeric phenylene ethynylene molecular junctions. Chinese Physics B, 2010, 19, 067305.	1.4	3
93	Bias-induced reconstruction of hybrid interface states in magnetic molecular junctions. Chinese Physics B, 0, , .	1.4	1