

# Gui-Ling Zhang

## List of Publications by Year in descending order

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73  
papers

906  
citations

623574

14  
h-index

526166

27  
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73  
docs citations

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times ranked

1102  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photo-induced synthesis of ternary Pt/rGO/COF photocatalyst with Pt nanoparticles precisely anchored on rGO for efficient visible-light-driven H <sub>2</sub> evolution. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 2613-2622.	5.0	16
2	Theoretical studies on the two-photon absorption of II-VI semiconductor nano clusters. <i>Scientific Reports</i> , 2022, 12, 110.	1.6	3
3	Magnetic Properties in Mn-Doped $\Gamma$ -MoN: A Systematic Density Functional Theory Study. <i>Nanomaterials</i> , 2022, 12, 747.	1.9	3
4	First principles study of photogalvanic effect of monolayer SnS. <i>Nanomaterials and Nanotechnology</i> , 2022, 12, 184798042210982.	1.2	1
5	Transport properties of MoS <sub>2</sub> /V <sub>7</sub> (Bz) <sub>8</sub> and graphene/V <sub>7</sub> (Bz) <sub>8</sub> vdW junctions tuned by bias and gate voltages. <i>RSC Advances</i> , 2022, 12, 17422-17433.	1.7	0
6	Constructing Cu ion sites in MOF/COF heterostructure for noble-metal-free photoredox catalysis. <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121710.	10.8	47
7	Graphene-based monoatomic chain spintronics: contact-derived half-metallicity, sp <sup>2</sup> vs sp. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 126, 114486.	1.3	0
8	Four probe electron transport characteristics of porphyrin phenylacetylene molecular devices. <i>New Journal of Chemistry</i> , 2021, 45, 2520-2528.	1.4	4
9	Electronic Properties of Triangle Molybdenum Disulfide (MoS <sub>2</sub> ) Clusters with Different Sizes and Edges. <i>Molecules</i> , 2021, 26, 1157.	1.7	8
10	Spin-polarized gate-tuned transport property of a four-terminal MoS <sub>2</sub> device: a theoretical study. <i>Journal of Materials Science</i> , 2021, 56, 11847-11865.	1.7	1
11	Theoretical Studies on Transport and Photoresponse Properties of a Wheel-and-Axle Architecture Formed by Nitrogen-Doped Graphynes and a V <sub>m</sub> (Bz) <sub>n</sub> Nanowire. <i>Journal of Electronic Materials</i> , 2021, 50, 3634-3644.	1.0	0
12	Study on the binding mode of aptamer to ampicillin and its electrochemical response behavior in two different reaction media. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6877-6887.	1.9	6
13	Decoration of Active Sites in Covalent Organic Framework: An Effective Strategy of Building Efficient Photocatalysis for CO <sub>2</sub> Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13376-13384.	3.2	34
14	A new strategy for constructing covalently connected MOF@COF core-shell heterostructures for enhanced photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16743-16750.	5.2	75
15	Spin filtering controller induced by phase transitions in fluorographane. <i>RSC Advances</i> , 2021, 11, 35718-35725.	1.7	1
16	Enhanced Shift Currents in Monolayer 2D GeS and SnS by Strain-Induced Band Gap Engineering. <i>ACS Omega</i> , 2020, 5, 17207-17214.	1.6	32
17	Novel magnetic and transport properties of FePP@GNP bilayers formed by Fe-porphyrin embedded into graphene nanopieces. <i>Materials Chemistry and Physics</i> , 2020, 254, 123547.	2.0	1
18	Modulation of the electronic band structure of silicene by polar two-dimensional substrates. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21412-21420.	1.3	7

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19	Spin-Polarized Transport and Optoelectronic Properties of a Novel-Designed Architecture with a Porphyrin-Based Wheel and Organometallic Multidecker Sandwich Complex-Based Axle. <i>Jom</i> , 2020, 72, 3149-3159.	0.9	1
20	Long Radiation Lifetime and Quasi-Isotropic Excitons in Antioxidant Vâ€“V Binary Phosphorene Allotropes with Intrinsic Dipole. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14787-14796.	1.5	2
21	Transport and photoelectric properties of vertical black phosphorus heterojunctions. <i>New Journal of Chemistry</i> , 2020, 44, 10507-10518.	1.4	5
22	Theoretical study of CO <sub>2</sub> hydrogenation on Cu surfaces. <i>Journal of Molecular Modeling</i> , 2020, 26, 202.	0.8	2
23	Ultrathin Phosphateâ€“Modulated Co Phthalocyanine/gâ€“C <sub>3</sub> N <sub>4</sub> Heterojunction Photocatalysts with Single Coâ€“N <sub>4</sub> (II) Sites for Efficient O <sub>2</sub> Activation. <i>Advanced Science</i> , 2020, 7, 2001543.	5.6	99
24	Effects of Cr doping in Î-MoN: structural, magnetic and spin transport properties. <i>Theoretical Chemistry Accounts</i> , 2020, 139, 1.	0.5	1
25	Lengthening the aptamer to hybridize with a stem-loop DNA assistant probe for the electrochemical detection of kanamycin with improved sensitivity. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 2391-2397.	1.9	7
26	Mixed-Metal-Cluster Strategy for Boosting Electrocatalytic Oxygen Evolution Reaction of Robust Metalâ€“Organic Frameworks. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 45080-45086.	4.0	35
27	Theory-Driven Design and Targeting Synthesis of a Highly-Conjugated Basal-Plane 2D Covalent Organic Framework for Metal-Free Electrocatalytic OER. <i>ACS Energy Letters</i> , 2019, 4, 2251-2258.	8.8	124
28	Transport and photogalvanic properties of covalent functionalized monolayer black phosphorus. <i>New Journal of Chemistry</i> , 2019, 43, 377-385.	1.4	10
29	Two kanamycin electrochemical aptamer-based sensors using different signal transduction mechanisms: A comparison of electrochemical behavior and sensing performance. <i>Bioelectrochemistry</i> , 2019, 129, 270-277.	2.4	11
30	Transport properties and photoresponse of a series of 2D transition metal dichalcogenide intercalation compounds. <i>New Journal of Chemistry</i> , 2019, 43, 6523-6534.	1.4	4
31	Chiral heteronanotubes: arrangement-dominated chiral interface states and conductivities. <i>Nanoscale</i> , 2019, 11, 8699-8705.	2.8	6
32	Perfect Spin Filtering in Homobimetallic Ni Complex with High Tolerance to Structural Changes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7842-7849.	2.1	8
33	(Bz) <sub>n</sub> and (VBz) <sub>n</sub> covalent functionalized MoS <sub>2</sub> monolayer: electronic and transport properties. <i>Materials Research Express</i> , 2019, 6, 046304.	0.8	3
34	Hybrid nanobud-array structures (C <sub>24</sub> ) <sub>n</sub> /MoS <sub>2</sub> and (C <sub>24</sub> V) <sub>n</sub> /MoS <sub>2</sub> : two-dimensional half metallic and ferromagnetic materials. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3373-3386.	2.7	1
35	Modulating the molecular third-order optical nonlinearity by curved surface of carbon skeleton. <i>Molecular Physics</i> , 2018, 116, 242-250.	0.8	1
36	Tunable transport and optoelectronic properties of monolayer black phosphorus by grafting PdCl <sub>2</sub> quantum dots. <i>RSC Advances</i> , 2018, 8, 35226-35236.	1.7	5

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37	Transport and Photoelectric Properties of 2D Silicene/MX <sub>2</sub> (M = Mo, W; X = S, Se) Heterostructures. ACS Omega, 2018, 3, 13251-13262.	1.6	12
38	Electronic Structure and Spin Transport Properties of a New Class of Semiconductor Surface-Confined One-Dimensional Half-Metallic [Eu-(C <sub>n</sub> H <sub>n</sub> ) <sub>2</sub> ] <sub>n</sub> (n = 7-9) Sandwich Compounds and Molecular Wires: First Principle Studies. Journal of Physical Chemistry C, 2018, 122, 16168-16177.	1.5	9
39	Effect of structure on sensing performance of a target induced signaling probe shifting DNA-based (TISPS-DNA) sensor. Biosensors and Bioelectronics, 2017, 91, 817-823.	5.3	3
40	A theoretical study for electronic and transport properties of covalent functionalized MoS <sub>2</sub> monolayer. Chemical Physics, 2017, 490, 29-37.	0.9	13
41	Spatial manipulating spin-polarization and tunneling patterns in graphene spirals via periphery structural modification. Carbon, 2017, 113, 325-333.	5.4	12
42	Doping Effect of Graphene Nanoplatelets on Electrical Insulation Properties of Polyethylene: From Macroscopic to Molecular Scale. Materials, 2016, 9, 680.	1.3	19
43	Performance assessment of solvent extraction coupled with gas chromatography-mass spectrometry for the analysis of volatile components from Syringa flowers. Analytical Methods, 2016, 8, 3115-3122.	1.3	2
44	A signal protection-displacement-hybridization-based electrochemical hepatitis B virus gene sequence sensor with high sensitivity and peculiar adjustable specificity. Biosensors and Bioelectronics, 2016, 82, 212-216.	5.3	14
45	Electronic and transport properties of [V(Bz) <sub>2</sub> ] <sub>n</sub> @SWCNT and [V(Bz) <sub>2</sub> ] <sub>n</sub> @DWCNT nanocables. RSC Advances, 2016, 6, 44041-44049.	1.7	1
46	Electronic and transport properties of the (VBz) <sub>n</sub> @MoS <sub>2</sub> NT nanocable. Physical Chemistry Chemical Physics, 2016, 18, 4385-4393.	1.3	8
47	Electronic and transport properties of PSi@MoS <sub>2</sub> nanocables. Physical Chemistry Chemical Physics, 2016, 18, 4333-4344.	1.3	2
48	The electronic and transport properties of (VBz) <sub>n</sub> @CNT and (VBz) <sub>n</sub> @BNNT nanocables. Journal of Materials Chemistry C, 2015, 3, 4039-4049.	2.7	11
49	A highly sensitive and specific electrochemical sensing method for robust detection of Escherichia coli lac Z gene sequence. Biosensors and Bioelectronics, 2015, 68, 78-82.	5.3	19
50	Mg doping and native N vacancy effect on electronic and transport properties of AlN nanowires. Science China Technological Sciences, 2015, 58, 832-839.	2.0	8
51	Using the synergism strategy for highly sensitive and specific electrochemical sensing of Streptococcus pneumoniae Lyt-1 gene sequence. Analytica Chimica Acta, 2015, 886, 175-181.	2.6	6
52	Electronic and transport properties of porous graphene sheets and nanoribbons: benzo-CMPs and BN codoped derivatives. Journal of Materials Chemistry C, 2015, 3, 9637-9649.	2.7	11
53	Electronic and transport properties of carbon and boron-nitride ferrocene nanopeapods. Journal of Materials Chemistry C, 2014, 2, 10017-10030.	2.7	9
54	Theoretical studies of structures and spectroscopic properties of [(tpy)(bpy)Ru(II)(CC <sub>6</sub> H <sub>4</sub> R)] <sup>+</sup> (tpy = 1,3,5-tris(4-pyridyl)benzene). Journal of Physical Chemistry C, 2014, 118, 725-733.	2.0	1

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55	What Factors Control O <sub>2</sub> Binding and Release Thermodynamics in Mononuclear Ruthenium Water Oxidation Catalysts? A Theoretical Exploration. <i>Inorganic Chemistry</i> , 2013, 52, 5088-5096.	1.9	18
56	Carbon nanotube and boron nitride nanotube hosted C <sub>60</sub> -V nanopeapods. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4518.	2.7	14
57	Silicon-Containing Multidecker Organometallic Complexes and Nanowires: A Density Functional Theory Study. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 151-156.	2.1	8
58	Spin-Orbit Coupling and Outer-Core Correlation Effects in Ir- and Pt-Catalyzed C-H Activation. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 1641-1645.	2.3	21
59	[CTi <sub>72</sub> +]: Heptacoordinate Carbon Motif?. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2264-2268.	2.1	23
60	Molecular design and theoretical investigation into one- and two-photon absorption properties of two series of cyclometalated platinum (II) complexes. <i>Science China Chemistry</i> , 2012, 55, 1405-1412.	4.2	0
61	Theoretical studies on organosilicon oligomers containing ethylene moieties. <i>Journal of Polymer Research</i> , 2011, 18, 1889-1902.	1.2	12
62	Rare earth element doping effect on the bonding and the transport property of $\gamma$ -MoN. <i>Theoretical Chemistry Accounts</i> , 2011, 128, 285-293.	0.5	4
63	Theoretical studies and rate constants calculation for the reactions of acetone with fluorine and bromine atoms. <i>Theoretical Chemistry Accounts</i> , 2011, 128, 317-325.	0.5	2
64	Charge doping effect on $\beta$ - $\beta'$ conjugated copolymers. <i>Science China Chemistry</i> , 2011, 54, 975-984.	4.2	0
65	Theoretical studies on the transport property of oligosilane with $\text{p-n}$ junction. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 4214-4223.	1.0	13
66	Dual-level direct dynamics studies on the reactions of tetramethylsilane with chlorine and bromine atoms. <i>Theoretical Chemistry Accounts</i> , 2010, 125, 75-82.	0.5	3
67	Theoretical studies of the reactions of Cl atoms with CF <sub>3</sub> CH <sub>2</sub> OCH <sub>n</sub> F (n=1, 2, 3). <i>Theoretical Chemistry Accounts</i> , 2010, 127, 551-560.	0.5	9
68	Theoretical studies of the transport property of oligosilane. <i>Science China Chemistry</i> , 2010, 53, 2571-2580.	4.2	4
69	Theoretical studies on the reactions OH+CH <sub>3</sub> COCCl <sub>2</sub> X (X=F, Cl, Br). <i>Theoretical Chemistry Accounts</i> , 2009, 122, 107-114.	0.5	1
70	Theoretical studies on the reactions of hydroxyl radicals with trimethylsilane and tetramethylsilane. <i>Theoretical Chemistry Accounts</i> , 2008, 119, 319-327.	0.5	4
71	Theoretical studies on the reactions of acetone with chlorine atom and methyl radical. <i>Theoretical Chemistry Accounts</i> , 2008, 119, 445-451.	0.5	4
72	End-substitution effect on the geometry and electronic structure of oligoheterocyclics. <i>Theoretical Chemistry Accounts</i> , 2008, 121, 109-122.	0.5	9

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73	Substitution effect on the geometry and electronic structure of the ferrocene. Journal of Computational Chemistry, 2007, 28, 2260-2274.	1.5	33