

Liu-Bin Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,319
citations

567247

15
h-index

580810

25
g-index

25
all docs

25
docs citations

25
times ranked

1563
citing authors

#	ARTICLE	IF	CITATIONS
1	Technologies and perspectives for achieving carbon neutrality. <i>Innovation(China)</i> , 2021, 2, 100180.	9.1	306
2	Surface-enhanced Raman spectroscopic study of p-aminothiophenol. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8485.	2.8	242
3	Theoretical Study of Plasmon-Enhanced Surface Catalytic Coupling Reactions of Aromatic Amines and Nitro Compounds. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1259-1266.	4.6	161
4	A DFT study on photoinduced surface catalytic coupling reactions on nanostructured silver: selective formation of azobenzene derivatives from para-substituted nitrobenzene and aniline. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12919.	2.8	126
5	Effect of Aromatic Amine-Metal Interaction on Surface Vibrational Raman Spectroscopy of Adsorbed Molecules Investigated by Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4174-4183.	3.1	61
6	Theoretical Study on Electroreduction of p-Nitrothiophenol on Silver and Gold Electrode Surfaces. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4949-4958.	3.1	59
7	Photon-driven charge transfer and Herzberg-Teller vibronic coupling mechanism in surface-enhanced Raman scattering of p-aminothiophenol adsorbed on coinage metal surfaces: A density functional theory study. <i>Journal of Chemical Physics</i> , 2011, 135, 134707.	3.0	40
8	Theoretical Study on Thermodynamic and Spectroscopic Properties of Electro-Oxidation of p-Aminothiophenol on Gold Electrode Surfaces. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27113-27122.	3.1	35
9	Surface plasmon-enhanced photochemical reactions on noble metal nanostructures. <i>Science China Chemistry</i> , 2015, 58, 574-585.	8.2	31
10	Experimental and Theoretical Study on Isotopic Surface-Enhanced Raman Spectroscopy for the Surface Catalytic Coupling Reaction on Silver Electrodes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11956-11965.	3.1	31
11	A density functional theory study on the thermodynamic and dynamic properties of anthraquinone analogue cathode materials for rechargeable lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12480-12489.	2.8	30
12	Molecular Design of Phenanthrenequinone Derivatives as Organic Cathode Materials. <i>ChemSusChem</i> , 2018, 11, 1215-1222.	6.8	21
13	Thermodynamic and Kinetic Competition between C-H and O-H Bond Formation Pathways during Electrochemical Reduction of CO on Copper Electrodes. <i>ACS Catalysis</i> , 2021, 11, 2422-2434.	11.2	20
14	Theoretical understanding of the electrochemical reaction barrier: a kinetic study of CO ₂ reduction reaction on copper electrodes. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9607-9615.	2.8	19
15	Developing micro-kinetic model for electrocatalytic reduction of carbon dioxide on copper electrode. <i>Journal of Catalysis</i> , 2021, 393, 11-19.	6.2	16
16	Oxidative Coupling or Reductive Coupling? Effect of Surroundings on the Reaction Route of the Plasmonic Photocatalysis of Nitroaniline. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1570-1579.	3.1	14
17	Theoretical Insights on Au-based Bimetallic Alloy Electrocatalysts for Nitrogen Reduction Reaction with High Selectivity and Activity. <i>ChemSusChem</i> , 2021, 14, 4525-4535.	6.8	11
18	Simulating pH-dependent surface-enhanced Raman spectra by density functional theory calculations. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1065-1073.	2.5	8

#	ARTICLE	IF	CITATIONS
19	A thermodynamic and kinetic study of the catalytic performance of Fe, Mo, Rh and Ru for the electrochemical nitrogen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 25973-25981.	2.8	8
20	Revealing practical specific capacity and carbonyl utilization of multi-carbonyl compounds for organic cathode materials. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 13159-13169.	2.8	7
21	Surface plasmon-mediated photocatalytic polymerization of <i>p</i> -nitrobenzene and <i>p</i> -phenylenediamine studied by surface-enhanced Raman spectroscopy and density functional theory. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 538-548.	2.5	6
22	A Density Functional Theoretical Study on the Charge-Transfer Enhancement in Surface-Enhanced Raman Scattering. <i>ChemPhysChem</i> , 2018, 19, 3401-3409.	2.1	1
23	Co-doped Mn ₃ O ₄ Nanocubes via Galvanic Replacement Reactions for Photocatalytic Reduction of CO ₂ with High Turnover Number. <i>ChemSusChem</i> , 2022, , .	6.8	1