

Zhen Hua Li

List of Publications by Citations

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96
papers

2,583
citations

31
h-index

47
g-index

101
ext. papers

3,041
ext. citations

8.2
avg. IF

5.43
L-index

#	Paper	IF	Citations
96	Matrix Stiffness and Nanoscale Spatial Organization of Cell-Adhesive Ligands Direct Stem Cell Fate. <i>Nano Letters</i> , 2015 , 15, 4720-9	11.5	218
95	Iridium-mediated regioselective B-H/C-H activation of carborane cage: a facile synthetic route to metallacycles with a carborane backbone. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2825-32	16.4	121
94	Heterolytic cleavage of dihydrogen by "frustrated Lewis pairs" comprising bis(2,4,6-tris(trifluoromethyl)phenyl)borane and amines: stepwise versus concerted mechanism. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12227-31	16.4	91
93	Organoborane catalyzed regioselective 1,4-hydroboration of pyridines. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4916-9	16.4	88
92	Stacking Interactions Induced Selective Conformation of Discrete Aromatic Arrays and Borromean Rings. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1653-1660	16.4	87
91	Generation of N-aminosulfonamides via a photo-induced fixation of sulfur dioxide into aryl/alkyl halides. <i>Organic Chemistry Frontiers</i> , 2016 , 3, 574-578	5.2	84
90	Molecular Borromean Rings Based on Dihalogenated Ligands. <i>CheM</i> , 2017 , 3, 110-121	16.2	79
89	Metal-free HB(C ₆ F ₅) ₂ -catalyzed hydrogenation of unfunctionalized olefins and mechanism study of borane-mediated π -bond metathesis. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7496-9	16.4	72
88	Effects of spreading areas and aspect ratios of single cells on dedifferentiation of chondrocytes. <i>Biomaterials</i> , 2014 , 35, 6871-81	15.6	60
87	Nanoparticulate Pt on mesoporous SBA-15 doped with extremely low amount of W as a highly selective catalyst for glycerol hydrogenolysis to 1,3-propanediol. <i>Green Chemistry</i> , 2017 , 19, 2174-2183	10	56
86	Effects of cell-cell contact and oxygen tension on chondrogenic differentiation of stem cells. <i>Biomaterials</i> , 2015 , 64, 21-32	15.6	56
85	Rational Design of Polynuclear Organometallic Assemblies from a Simple Heteromultifunctional Ligand. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13670-8	16.4	56
84	Sigma-aromaticity and sigma-antiaromaticity in saturated inorganic rings. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 3711-6	2.8	54
83	Effects of Nanoscale Spatial Arrangement of Arginine-Glycine-Aspartate Peptides on Dedifferentiation of Chondrocytes. <i>Nano Letters</i> , 2015 , 15, 7755-65	11.5	51
82	A Route to O-Aminosulfonates and Sulfonamides through Insertion of Sulfur Dioxide and Hydrogen Atom Transfer. <i>Advanced Synthesis and Catalysis</i> , 2017 , 359, 2653-2659	5.6	48
81	Infrared photodissociation spectra of mass selected homoleptic dinuclear iron carbonyl cluster anions in the gas phase. <i>Chemical Science</i> , 2012 , 3, 1698	9.4	45
80	Synthesis of Sulfonated Benzo[d][1,3]oxazines by Merging Photoredox Catalysis and Insertion of Sulfur Dioxide. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 865-869	5.6	45

79	Dihydrogen Bond Interaction Induced Separation of Hexane Isomers by Self-Assembled Carborane Metallacycles. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8532-8538	16.4	44
78	Adhesion, proliferation, and differentiation of mesenchymal stem cells on RGD nanopatterns of varied nanopacings. <i>Organogenesis</i> , 2013 , 9, 280-6	1.7	44
77	Coordination-driven self-assembly of a molecular figure-eight knot and other topologically complex architectures. <i>Nature Communications</i> , 2019 , 10, 2057	17.4	43
76	Metal-Free Aminosulfonylation of Aryldiazonium Tetrafluoroborates with DABCO(SO ₂) ₂ and Hydrazines. <i>Angewandte Chemie</i> , 2014 , 126, 2483-2486	3.6	43
75	Macroscopic and Fluorescent Discrimination of Adenosine Triphosphate via Selective Metallo-hydrogel Formation: A Visual, Practical, and Reliable Rehearsal toward Cellular Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20583-90	9.5	43
74	Self-Assembly of Molecular Borromean Rings from Bimetallic Coordination Rectangles. <i>Angewandte Chemie</i> , 2014 , 126, 11400-11404	3.6	40
73	Bonding in homoleptic iron carbonyl cluster cations: a combined infrared photodissociation spectroscopic and theoretical study. <i>Chemical Science</i> , 2012 , 3, 3272	9.4	40
72	Deep Oxidations in the Oxidative Dehydrogenation Reaction of Propane over V ₂ O ₅ (001): Periodic Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 807-817	3.8	40
71	Nanosolids, slushes, and nanoliquids: characterization of nanophases in metal clusters and nanoparticles. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12698-711	16.4	40
70	Multicolor imaging of hydrogen peroxide level in living and apoptotic cells by a single fluorescent probe. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 115-121	11.8	37
69	Frustrated Lewis pair induced boroauration of terminal alkynes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12047-50	16.4	37
68	Heterolytic Cleavage of Dihydrogen by Frustrated Lewis Pairs[Comprising Bis(2,4,6-tris(trifluoromethyl)phenyl)borane and Amines: Stepwise versus Concerted Mechanism. <i>Angewandte Chemie</i> , 2011 , 123, 12435-12439	3.6	35
67	Toward an Integrated Conversion of 5-Hydroxymethylfurfural and Ethylene for the Production of Renewable p-Xylene. <i>Chem</i> , 2018 , 4, 2212-2227	16.2	34
66	Development of Polyene-Bridged Hybrid Rhodamine Fluorophores for High-Resolution NIR-II Imaging 2019 , 1, 418-424		32
65	Enantioselective Palladium-Catalyzed Cross-Coupling of β -Bromo Carboxamides and Aryl Boronic Acids. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11355-11359	16.4	31
64	Effect of zirconia morphology on sulfur-resistant methanation performance of MoO ₃ /ZrO ₂ catalyst. <i>Applied Surface Science</i> , 2018 , 441, 482-490	6.7	29
63	Metal-Free HB(C ₆ F ₅) ₂ -Catalyzed Hydrogenation of Unfunctionalized Olefins and Mechanism Study of Borane-Mediated β Bond Metathesis. <i>Angewandte Chemie</i> , 2013 , 125, 7644-7647	3.6	29
62	KOH-Assisted Band Engineering of Polymeric Carbon Nitride for Visible Light Photocatalytic Oxygen Reduction to Hydrogen Peroxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 594-603	8.3	28

61	Self-assembly of metalla[3]catenanes, Borromean rings and ring-in-ring complexes using a simple σ -donor unit. <i>National Science Review</i> , 2020 , 7, 1548-1556	10.8	28
60	Effects of RGD nanospacing on chondrogenic differentiation of mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 5197-5209	7.3	26
59	Highly Stable Molecular Borromean Rings. <i>Chinese Journal of Chemistry</i> , 2018 , 36, 106-111	4.9	26
58	Adsorption of phenylacetylene on Si(100)-2 \times 1: Reaction mechanism and formation of a styrene-like π -conjugation system. <i>Physical Review B</i> , 2003 , 67,	3.3	25
57	Undercoordinated Site-Abundant and Tensile-Strained Nickel for Low-Temperature COx Methanation. <i>ACS Catalysis</i> , 2018 , 8, 1207-1211	13.1	22
56	White light emission from a two-component hybrid gel via an energy transfer process. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 32297-303	3.6	21
55	Addition of dihydrogen to a borylborenium center. <i>Chemical Science</i> , 2018 , 9, 1433-1438	9.4	21
54	Inhibitory Mechanism of Epigallocatechin Gallate on Fibrillation and Aggregation of Amidated Human Islet Amyloid Polypeptide. <i>ChemPhysChem</i> , 2017 , 18, 1611-1619	3.2	20
53	Selective B(4)-H Activation of an o-Carboranylthioamide Based on a Palladium Precursor. <i>Chemistry - A European Journal</i> , 2017 , 23, 1814-1819	4.8	20
52	Tuning enantioselectivity in asymmetric hydrogenation of acetophenone and its derivatives via confinement effect over free-standing mesoporous palladium network catalysts. <i>Journal of Catalysis</i> , 2014 , 313, 113-126	7.3	20
51	Anion Acceptors Dioxaborinane Contained in Solid State Polymer Electrolyte: Preparation, Characterization, and DFT Calculations. <i>Advanced Functional Materials</i> , 2016 , 26, 5930-5939	15.6	20
50	N,O- vs N,C-Chelation in Half-Sandwich Iridium Complexes: A Dramatic Effect on Enantioselectivity in Asymmetric Transfer Hydrogenation of Ketones. <i>ACS Catalysis</i> , 2018 , 8, 8020-8026	13.1	19
49	Structural Characterization of a Boron(III) π -Silane-Complex. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8358-8363	16.4	17
48	A theoretical study on the metal cation- π complexes of Zn ²⁺ and Cd ²⁺ with benzene and cyclohexene. <i>Molecular Physics</i> , 2009 , 107, 1271-1282	1.7	17
47	Is the FeO ₂ (-) anion bent or linear?. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 13641-9	2.8	17
46	Small molecule activation by mixed methyl/methylidene rare earth metal complexes. <i>Dalton Transactions</i> , 2016 , 45, 6641-9	4.3	16
45	A theoretical investigation on the influence of anatase support and vanadia dispersion on the oxidative dehydrogenation of propane to propene. <i>Journal of Molecular Catalysis A</i> , 2013 , 379, 122-138		15
44	A Density Functional Theory Study on the Adsorption of Chlorobenzene on the Si(111)-7 \times 7 Surface. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 14049-14055	3.4	15

43	Frustrated Lewis Pair Induced Boroauration of Terminal Alkynes. <i>Angewandte Chemie</i> , 2012 , 124, 12213-12216	3.2	14
42	Design and Synthesis of Thermal Contracting Polymer with Unique Eight-Membered Carbocycle Unit. <i>Macromolecules</i> , 2018 , 51, 1377-1385	5.5	13
41	Tautomerization of 2,6-lutidines in the presence of B(C ₆ F ₅) ₃ using catecholborane as a precatalyst. <i>Chemical Communications</i> , 2016 , 52, 4655-8	5.8	13
40	Synthesis of an oxygen-linked germinal frustrated Lewis pair and its application in small molecule activation.. <i>RSC Advances</i> , 2018 , 8, 26271-26276	3.7	13
39	Synthesis of copolymers with an exact alternating sequence using the cationic polymerization of pre-sequenced monomers. <i>Polymer Chemistry</i> , 2018 , 9, 3455-3460	4.9	13
38	Influence of Aluminium and EGCG on Fibrillation and Aggregation of Human Islet Amyloid Polypeptide. <i>Journal of Diabetes Research</i> , 2016 , 2016, 1867059	3.9	13
37	Ultrabright and Highly Polarity-Sensitive NIR-I/NIR-II Fluorophores for the Tracking of Lipid Droplets and Staging of Fatty Liver Disease. <i>Advanced Functional Materials</i> , 2019 , 29, 2109929	15.6	12
36	Metalloradicals Supported by a meta-Carborane Ligand. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8129-8133	16.4	11
35	Designing Metal-Free Frustrated Lewis Pairs Catalyst for the Efficient Dehydrogenation of Ammonia Borane. <i>Chemistry - A European Journal</i> , 2018 , 24, 13238-13245	4.8	11
34	Highly Selective Separation of Benzene and Cyclohexane in a Spatially Confined Carborane Metallacage.. <i>Journal of the American Chemical Society</i> , 2022 , 144, 12345-12350	16.4	9
33	Investigation of protonated and sodiated leucine-enkephalin by hydrogen-deuterium exchange and theoretical calculations. <i>Analytical Methods</i> , 2015 , 7, 5551-5556	3.2	8
32	Chiral Ferrocenyl N,N Ligands with Intramolecular Hydrogen Bonds for Highly Enantioselective Allylic Alkylations. <i>ChemCatChem</i> , 2018 , 10, 804-809	5.2	8
31	Adsorption and decomposition mechanism of formic acid on the Ga ₂ O ₃ surface by first principle studies. <i>Surface Science</i> , 2017 , 656, 86-95	1.8	7
30	Activation of the P-H bond by a frustrated Lewis pair and its application in catalytic Z-selective hydrophosphonylation of terminal ynones. <i>Chemical Communications</i> , 2017 , 53, 10890-10893	5.8	7
29	Methane activation by metal-free Lewis acid centers only--a computational design and mechanism study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 11539-49	3.6	7
28	An "All-in-One" Synthetic Strategy for Linear Metallacyclic Catenanes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12404-12411	16.4	7
27	Local Hybrid Divide-and-Conquer Method for the Computation of Medium and Large Molecules. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 2049-56	6.4	6
26	Theoretical design and mechanistic study of the metal-free reduction of CO to CO. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 28313-28322	3.6	5

25	Direct Synthesis of in-Situ Chirally Modified Palladium Nanocrystals without Capping Agents and Their Application in Heterogeneous Enantioselective Hydrogenations. <i>ACS Catalysis</i> , 2019 , 9, 6100-6110	13.1	5
24	Activation of C≡C Bonds via E-Bond Metathesis: Hydroborenum-Catalyzed Hydrogenolysis of Cyclopropanes. <i>Organometallics</i> , 2020 , 39, 4159-4163	3.8	5
23	Ethylene (co-)polymerization by long-lifetime half-sandwich zirconium catalyst bearing a [SSO]-carborane ligand. <i>Science China Chemistry</i> , 2014 , 57, 1137-1143	7.9	5
22	Methane activation by a borenium complex. <i>Chem</i> , 2021 , 7, 1843-1851	16.2	5
21	Carbon-Limited Conversion of Molybdenum Carbide into Curved Ultrasmall Monolayer Molybdenum Disulfide under Effects of ZrO ₂ Crystal Phases for Efficient Sulfur-Resistant Methanation. <i>ChemCatChem</i> , 2019 , 11, 3046-3053	5.2	4
20	Infrared Photodissociation Spectroscopy of the Ni(O ₂) _n (+) (n = 2-4) Cation Complexes. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 9286-93	2.8	4
19	Phytic acid-derived fabrication of ultra-small MoP nanoparticles for efficient CO methanation: Effects of P/Mo ratios. <i>Journal of Energy Chemistry</i> , 2020 , 47, 248-255	12	4
18	Extended Energy Divide-and-Conquer Method Based on Charge Conservation. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 1992-9	6.4	4
17	Hydrogen-bond-assisted transition-metal-free catalytic transformation of amides to esters. <i>Science China Chemistry</i> , 2021 , 64, 66-71	7.9	4
16	Reversible Selectivity Modulation of Gasoline and Diesel by a Facile Metal-Salt-Modified Fischer-Tropsch Synthesis Strategy. <i>ChemCatChem</i> , 2016 , 8, 3701-3705	5.2	3
15	Effect of Transition-Metal Ions on the Conformation of Enkephalin Investigated by Hydrogen/Deuterium Exchange and Theoretical Calculations. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 101-109	3.4	3
14	Catalysis and Stability Effect of Solvent Alcohol on the C ₆ Aldose Conversion toward Tetrose. <i>ChemCatChem</i> , 2019 , 11, 4182-4188	5.2	3
13	NIR-II photothermally triggered oxygen bomb for hypoxic tumor programmed cascade therapy. <i>Advanced Materials</i> , 2020 , 32, 2001978	24	3
12	Data in support of effects of cell-cell contact and oxygen tension on chondrogenic differentiation of stem cells. <i>Data in Brief</i> , 2015 , 4, 437-9	1.2	2
11	Exploring halide anion affinities to native cyclodextrins by mass spectrometry and molecular modelling. <i>European Journal of Mass Spectrometry</i> , 2018 , 24, 269-278	1.1	2
10	Condition screening and process investigation of aldose transformation in borate-containing acidic phosphate buffer system under microwave irradiation. <i>RSC Advances</i> , 2014 , 4, 39453-39462	3.7	2
9	Mo-Based Catalyst Supported on Binary Ceria-Lanthanum Solid Solution for Sulfur-Resistant Methanation: Effect of La Dopant. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 1803-1811	3.9	2
8	Generalized Switch Functions in the Multilevel Many-Body Expansion Method and Its Application to Water Clusters. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 2010-2020	6.4	1

7	Theoretical Design of Stable Pentacoordinate Boron Compounds.. <i>ACS Omega</i> , 2022 , 7, 2391-2397	3.9	o
6	Conformation Changes of Enkephalin in Coordination with Pb ²⁺ Investigated by Gas Phase Hydrogen/Deuterium Exchange Mass Spectrometry Combined with Theoretical Calculations. <i>Chemical Research in Chinese Universities</i> , ¹	2.2	o
5	Coordination-Driven Selective Formation of D Symmetric Octanuclear Organometallic Cages. <i>Chemistry - A European Journal</i> , 2021 , 27, 9524-9528	4.8	o
4	Rücktitelbild: Metal-Free HB(C ₆ F ₅) ₂ -Catalyzed Hydrogenation of Unfunctionalized Olefins and Mechanism Study of Borane-Mediated π Bond Metathesis (Angew. Chem. 29/2013). <i>Angewandte Chemie</i> , 2013 , 125, 7758-7758	3.6	
3	Alkali metal ion-induced conformation changes of methionine- and leucine enkephalin investigated by gas-phase hydrogen/deuterium exchange combined with theoretical calculations. <i>Journal of Molecular Structure</i> , 2021 , 1233, 130113	3.4	
2	Reversible Selectivity Modulation of Gasoline and Diesel by a Facile Metal-Salt-Modified Fischer-Tropsch Synthesis Strategy. <i>ChemCatChem</i> , 2016 , 8, 3691-3691	5.2	
1	Ultrabright and Highly Polarity-Sensitive NIR-I/NIR-II Fluorophores for the Tracking of Lipid Droplets and Staging of Fatty Liver Disease (Adv. Funct. Mater. 12/2022). <i>Advanced Functional Materials</i> , 2022 , 32, 2270075	15.6	