

Zhen Hua Li

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5094323/zhen-hua-li-publications-by-year.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Theoretical Design of Stable Pentacoordinate Boron Compounds.. <i>ACS Omega</i> , 2022 , 7, 2391-2397	3.9	0
95	Highly Selective Separation of Benzene and Cyclohexane in a Spatially Confined Carborane Metallacage.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	9
94	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	
93	Coordination-Driven Selective Formation of D Symmetric Octanuclear Organometallic Cages. <i>Chemistry - A European Journal</i> , 2021 , 27, 9524-9528	4.8	0
92	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	
91	Methane activation by a borenium complex. <i>CheM</i> , 2021 , 7, 1843-1851	16.2	5
90	Hydrogen-bond-assisted transition-metal-free catalytic transformation of amides to esters. <i>Science China Chemistry</i> , 2021 , 64, 66-71	7.9	4
89	An "All-in-One" Synthetic Strategy for Linear Metalla[4]Catenanes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12404-12411	16.4	7
88	Activation of C≡C Bonds via π -Bond Metathesis: Hydroborenium-Catalyzed Hydrogenolysis of Cyclopropanes. <i>Organometallics</i> , 2020 , 39, 4159-4163	3.8	5
87	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
86	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
85	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
84	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
83	Self-assembly of metalla[3]catenanes, Borromean rings and ring-in-ring complexes using a simple π -donor unit. <i>National Science Review</i> , 2020 , 7, 1548-1556	10.8	28
82	Development of Polyene-Bridged Hybrid Rhodamine Fluorophores for High-Resolution NIR-II Imaging 2019 , 1, 418-424		32
81	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
80	Enantioselective Palladium-Catalyzed Cross-Coupling of α -Bromo Carboxamides and Aryl Boronic Acids. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11355-11359	16.4	31

79	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
78	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
77	Structural Characterization of a Boron(III) Silane-Complex. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8358-8363	16.4	17
76	Metalloradicals Supported by a meta-Carborane Ligand. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8129-8133	16.4	11
75	Catalysis and Stability Effect of Solvent Alcohol on the C6 Aldose Conversion toward Tetrose. <i>ChemCatChem</i> , 2019 , 11, 4182-4188	5.2	3
74	Mo-Based Catalyst Supported on Binary Ceria-Panthanum Solid Solution for Sulfur-Resistant Methanation: Effect of La Dopant. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 1803-1811	3.9	2
73	Design and Synthesis of Thermal Contracting Polymer with Unique Eight-Membered Carbocycle Unit. <i>Macromolecules</i> , 2018 , 51, 1377-1385	5.5	13
72	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
71	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
70	Undercoordinated Site-Abundant and Tensile-Strained Nickel for Low-Temperature CO _x Methanation. <i>ACS Catalysis</i> , 2018 , 8, 1207-1211	13.1	22
69	Chiral Ferrocenyl N,N Ligands with Intramolecular Hydrogen Bonds for Highly Enantioselective Allylic Alkylations. <i>ChemCatChem</i> , 2018 , 10, 804-809	5.2	8
68	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
67	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
66	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
65	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
64	Addition of dihydrogen to a borylborenium center. <i>Chemical Science</i> , 2018 , 9, 1433-1438	9.4	21
63	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
62	Highly Stable Molecular Borromean Rings. <i>Chinese Journal of Chemistry</i> , 2018 , 36, 106-111	4.9	26

61	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
60	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
59	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
58	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
57	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
56	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
55	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
54	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
53	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
52	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
51	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
50	Molecular Borromean Rings Based on Dihalogenated Ligands. <i>Chem</i> , 2017 , 3, 110-121	16.2	79
49	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
48	Small molecule activation by mixed methyl/methylidene rare earth metal complexes. <i>Dalton Transactions</i> , 2016 , 45, 6641-9	4.3	16
47	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
46	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
45	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
44	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

43	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	
42	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
41	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
40	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
39	Effects of cell-cell contact and oxygen tension on chondrogenic differentiation of stem cells. <i>Biomaterials</i> , 2015 , 64, 21-32	15.6	56
38	Organoborane catalyzed regioselective 1,4-hydroboration of pyridines. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4916-9	16.4	88
37	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
36	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
35	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
34	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
33	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
32	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
31	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
30	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
29	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
28	Self-Assembly of Molecular Borromean Rings from Bimetallic Coordination Rectangles. <i>Angewandte Chemie</i> , 2014 , 126, 11400-11404	3.6	40
27	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
26	Effects of spreading areas and aspect ratios of single cells on dedifferentiation of chondrocytes. <i>Biomaterials</i> , 2014 , 35, 6871-81	15.6	60

25	Metal-Free Aminosulfonylation of Aryldiazonium Tetrafluoroborates with DABCO \cdot (SO ₂) ₂ and Hydrazines. <i>Angewandte Chemie</i> , 2014 , 126, 2483-2486	3.6	43
24	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
23	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
22	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
21	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
20	Adhesion, proliferation, and differentiation of mesenchymal stem cells on RGD nanopatterns of varied nanospacings. <i>Organogenesis</i> , 2013 , 9, 280-6	1.7	44
19	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	
18	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</i> , 2013 , 125, 7644-7647	3.6	29
17	Frustrated Lewis Pair Induced Boroauration of Terminal Alkynes. <i>Angewandte Chemie</i> , 2012 , 124, 12213-12216	3.8	14
16	Frustrated Lewis pair induced boroauration of terminal alkynes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12047-50	16.4	37
15	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
14	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
13	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
12	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
11	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
10	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
9	Is the FeO ₂ (-) anion bent or linear?. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 13641-9	2.8	17
8	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

7	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
6	Sigma-aromaticity and sigma-antiaromaticity in saturated inorganic rings. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 3711-6	2.8	54
5	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
4	Adsorption of phenylacetylene on Si(100)-2 \times 8: Reaction mechanism and formation of a styrene-like π -conjugation system. <i>Physical Review B</i> , 2003 , 67,	3.3	25
3	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> , 2109929	15.6	12
2	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	0
1	NIR-II photothermally triggered oxygen bomb for hypoxic tumor programmed cascade therapy. <i>Advanced Materials</i> , 2201978	24	3