

# Shi-Lu Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

1,807  
citations

257450

24  
h-index

276875

41  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2078  
citing authors

#	ARTICLE	IF	CITATIONS
1	Key Piece in the Wolfe Cycle of Methanogenesis: The S-S Bond Dissociation Conducted by Noncubane [Fe <sub>4</sub> S <sub>4</sub> ] Cluster-Dependent Heterodisulfide Reductase. ACS Catalysis, 2022, 12, 2606-2622.	11.2	3
2	Highly magnetically responsive porous nanoparticles based on tris(Î <sup>2</sup> -keto-hydrazo)-cyclohexane subunit: Fast removal of dyes from water with convenient recyclability. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 648, 129173.	4.7	2
3	Handling methane: a Ni(Î <sup>2</sup> -F <sub>430</sub> -like cofactor derived from VB <sub>12</sub> is active in methyl-coenzyme M reductase. Chemical Communications, 2021, 57, 476-479.	4.1	1
4	A Key Piece in the Global N-Cycle: The N-N Bond Formation Presented by Heme-Dependent Hydrazine Synthase. ACS Catalysis, 2021, 11, 6489-6498.	11.2	9
5	Enzymatic N-N bond formation: Mechanism for the N-nitroso synthesis catalyzed by non-heme iron SznF enzyme. Journal of Catalysis, 2021, 398, 44-53.	6.2	7
6	Radical 1,4-Aryl Migration Enabled Remote Cross-Electrophile Coupling of Î <sup>2</sup> -Amino-Î <sup>2</sup> -Bromo Acid Esters with Aryl Bromides. Angewandte Chemie, 2021, 133, 21530-21537.	2.0	1
7	Radical 1,4-Aryl Migration Enabled Remote Cross-Electrophile Coupling of Î <sup>2</sup> -Amino-Î <sup>2</sup> -Bromo Acid Esters with Aryl Bromides. Angewandte Chemie - International Edition, 2021, 60, 21360-21367.	13.8	22
8	Syndiospecific Polymerization of <i>o</i> -Methoxystyrene and Its Silyloxy or Fluorine-Substituted Derivatives by HNC-Ligated Scandium Catalysts: Synthesis of Ultrahigh-Molecular-Weight Functionalized Polymers. Macromolecules, 2021, 54, 10838-10849.	4.8	4
9	Mechanism and Inhibitor Exploration with Binuclear Mg Ketol-Î <sup>2</sup> -Acid Reductoisomerase: Targeting the Biosynthetic Pathway of Branched-Chain Amino Acids. ChemBioChem, 2020, 21, 381-391.	2.6	4
10	Facile synthesis of a porous polynorbornene with an azobenzene subunit: selective adsorption of 4-nitrophenol over 4-aminophenol in water. Polymer Chemistry, 2020, 11, 6429-6434.	3.9	4
11	An Unprecedented Ring-Contraction Mechanism in Cobalamin-Dependent Radical <i>S</i> -Adenosylmethionine Enzymes. Journal of Physical Chemistry Letters, 2020, 11, 6812-6818.	4.6	8
12	Theoretical Study of VX Hydrolysis Mechanism Catalyzed by Phosphotriesterase Mutant H254R. ChemistrySelect, 2020, 5, 8986-8991.	1.5	2
13	Irreversible tautomerization as a powerful tool to access unprecedented functional porous organic polymers with a tris(Î <sup>2</sup> -keto-hydrazo)cyclohexane subunit (TKH-POPs). Chemical Communications, 2020, 56, 2103-2106.	4.1	10
14	How To Produce Methane Precursor in the Upper Ocean by An Untypical Non-Heme Fe-Dependent Methylphosphonate Synthase?. ChemPhysChem, 2020, 21, 385-396.	2.1	12
15	Using Machine Learning to Predict the Dissociation Energy of Organic Carbonyls. Journal of Physical Chemistry A, 2020, 124, 3844-3850.	2.5	18
16	Insights into the Chemical Reactivity in Acetyl-CoA Synthase. Inorganic Chemistry, 2020, 59, 15167-15179.	4.0	11
17	Theoretical Studies of Nickel-Dependent Enzymes. Inorganics, 2019, 7, 95.	2.7	15
18	Functional Porous Organic Polymers Comprising a Triaminotriphenylazobenzene Subunit as a Platform for Copper-Catalyzed Aerobic C-H Oxidation. Chemistry of Materials, 2019, 31, 5421-5430.	6.7	37

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19	Copper-catalyzed radical cascades of para-quinone methides with AIBN and H <sub>2</sub> O via $\beta$ -cyanoalkylation by C-C bond cleavage: new access to benzofuran-2(3H)-ones. <i>Chemical Communications</i> , 2019, 55, 4578-4581.	4.1	44
20	How does Mo-dependent perchlorate reductase work in the decomposition of oxyanions?. <i>Dalton Transactions</i> , 2019, 48, 5683-5691.	3.3	11
21	From Alkane to Alkene: The Inert Aliphatic C-H Bond Activation Presented by Binuclear Iron Stearoyl-CoA Desaturase with a Long di-Fe Distance of 6 Å... <i>ACS Catalysis</i> , 2019, 9, 4345-4359.	11.2	8
22	Theoretical study of aromatic hydroxylation of the [Cu <sub>2</sub> (H-XYL)O <sub>2</sub> ] <sup>2+</sup> complex mediated by a side-on peroxo dicopper core and Cu-ligand effects. <i>Dalton Transactions</i> , 2019, 48, 16882-16893.	3.3	1
23	A Copper (II) Acetate Mediated Oxidative Coupling of Styrenes and Ethers Through an Unactivated C-H Bond Functionalization. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 1007-1011.	4.3	13
24	Cucurbit[7]uril-Carbazole Two-Photon Photoinitiators for the Fabrication of Biocompatible Three-Dimensional Hydrogel Scaffolds by Laser Direct Writing in Aqueous Solutions. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 1782-1789.	8.0	52
25	Azo-linked porous organic polymers: robust and time-efficient synthesis via NaBH <sub>4</sub> -mediated reductive homocoupling on polynitro monomers and adsorption capacity towards aniline in water. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5608-5612.	10.3	36
26	How is DMSP decomposed when catalyzed by RIDddP binuclear iron DMSP lyase?. <i>Journal of Catalysis</i> , 2018, 360, 1-8.	6.2	5
27	Exothermic or Endothermic Decomposition of Disubstituted Tetrazoles Tuned by Substitution Fashion and Substituents. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8-15.	2.5	3
28	Asymmetric abstraction of two chemically-equivalent methylene hydrogens: significant enantioselectivity of endoperoxide presented by fumitremorgin B endoperoxidase. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26500-26505.	2.8	13
29	Porous platinum-silver bimetallic alloys: surface composition and strain tunability toward enhanced electrocatalysis. <i>Nanoscale</i> , 2018, 10, 21703-21711.	5.6	20
30	An Iron-Containing Metal-Organic Framework as a Highly Efficient Catalyst for Ozone Decomposition. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16416-16420.	13.8	97
31	An Iron-Containing Metal-Organic Framework as a Highly Efficient Catalyst for Ozone Decomposition. <i>Angewandte Chemie</i> , 2018, 130, 16654-16658.	2.0	73
32	Efficient biosynthesis of heterodimeric C <sub>3</sub> -aryl pyrroloindoline alkaloids. <i>Nature Communications</i> , 2018, 9, 4428.	12.8	53
33	How does binuclear zinc amidohydrolase FwdA work in the initial step of methanogenesis: From formate to formyl-methanofuran. <i>Journal of Inorganic Biochemistry</i> , 2018, 185, 71-79.	3.5	2
34	Significant electron transfer in heme catalysis: The case of chlorite dismutase. <i>Journal of Catalysis</i> , 2017, 348, 40-46.	6.2	11
35	Unusual Assembly and Conversion of Graphene Quantum Dots into Crystalline Graphite Nanocapsules. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1272-1276.	3.3	4
36	From NAD <sup>+</sup> to Nickel Pincer Complex: A Significant Cofactor Evolution Presented by Lactate Racemase. <i>Chemistry - A European Journal</i> , 2017, 23, 7545-7557.	3.3	20

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37	A General and Extremely Simple Remote Approach toward Graphene Bulks with In Situ Multifunctionalization. <i>Advanced Materials</i> , 2016, 28, 3305-3312.	21.0	79
38	Unraveling the Mechanism and Regioselectivity of the B12-Dependent Reductive Dehalogenase PceA. <i>Chemistry - A European Journal</i> , 2016, 22, 12391-12399.	3.3	25
39	The Decarboxylation of $\hat{1},\hat{2}$ -Unsaturated Acid Catalyzed by Prenylated FMN-Dependent Ferulic Acid Decarboxylase and the Enzyme Inhibition. <i>Journal of Organic Chemistry</i> , 2016, 81, 9289-9295.	3.2	25
40	Unactivated C(sp <sup>3</sup> )-H Bond Functionalization of Alkyl Nitriles with Vinylarenes and Mechanistic Studies. <i>Organic Letters</i> , 2016, 18, 5986-5989.	4.6	53
41	High-valent cationic metal-organic macrocycles as novel supports for immobilization and enhancement of activity of polyoxometalate catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 8540-8547.	4.1	14
42	Aerobic oxidative cyclization of benzamides via meta-selective C-H tert-alkylation: rapid entry to 7-alkylated isoquinolinediones. <i>Chemical Communications</i> , 2016, 52, 4470-4473.	4.1	62
43	$\hat{1}_4$ -Oxo stabilized by three metal cations is a sufficient nucleophile for enzymatic hydrolysis of phosphate monoesters. <i>Dalton Transactions</i> , 2016, 45, 2517-2522.	3.3	6
44	Which Oxidation State Initiates Dehalogenation in the B12-Dependent Enzyme NpRdhA: Co <sup>II</sup> , Co <sup>I</sup> , or Co <sup>0</sup> ? <i>ACS Catalysis</i> , 2015, 5, 7350-7358.	11.2	35
45	How does the silicon element perform in JD-dyes: a theoretical investigation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8308-8315.	10.3	16
46	Include Dispersion in Quantum Chemical Modeling of Enzymatic Reactions: The Case of Isoaspartyl Dipeptidase. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 2525-2535.	5.3	23
47	Phosphate Monoester Hydrolysis by Trinuclear Alkaline Phosphatase; DFT Study of Transition States and Reaction Mechanism. <i>ChemPhysChem</i> , 2014, 15, 2321-2330.	2.1	27
48	An investigation of possible competing mechanisms for Ni-containing methyl-coenzyme M reductase. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14029.	2.8	28
49	A dominant homolytic O-Cl bond cleavage with low-spin triplet-state Fe(IV) formed is revealed in the mechanism of heme-dependent chlorite dismutase. <i>Dalton Transactions</i> , 2014, 43, 973-981.	3.3	21
50	Nitrogen-doped porous carbon monolith as a highly efficient catalyst for CO <sub>2</sub> conversion. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18360-18366.	10.3	75
51	How Is Methane Formed and Oxidized Reversibly When Catalyzed by Ni-Containing Methyl-Coenzyme M Reductase?. <i>Chemistry - A European Journal</i> , 2012, 18, 6309-6315.	3.3	45
52	Theoretical investigation of astacin proteolysis. <i>Journal of Inorganic Biochemistry</i> , 2012, 111, 70-79.	3.5	17
53	Theoretical study on reaction mechanism of sulfuric acid and ammonia and hydration of (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> . <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	1.4	5
54	How Is a Co-Methyl Intermediate Formed in the Reaction of Cobalamin-Dependent Methionine Synthase? Theoretical Evidence for a Two-Step Methyl Cation Transfer Mechanism. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4066-4077.	2.6	44

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55	Significant van der Waals Effects in Transition Metal Complexes. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2040-2044.	5.3	185
56	Reaction mechanism of the binuclear zinc enzyme glyoxalase II – A theoretical study. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 274-281.	3.5	41
57	Is There a Ni-Methyl Intermediate in the Mechanism of Methyl-Coenzyme M Reductase?. <i>Journal of the American Chemical Society</i> , 2009, 131, 9912-9913.	13.7	37
58	Technical aspects of quantum chemical modeling of enzymatic reactions: the case of phosphotriesterase. <i>Theoretical Chemistry Accounts</i> , 2008, 120, 515-522.	1.4	67
59	Structure of Diethyl Phosphate Bound to the Binuclear Metal Center of Phosphotriesterase. <i>Biochemistry</i> , 2008, 47, 9497-9504.	2.5	67
60	Peptide Hydrolysis by the Binuclear Zinc Enzyme Aminopeptidase from <i>Aeromonas proteolytica</i> : A Density Functional Theory Study. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2494-2500.	2.6	68
61	Theoretical Study of the Phosphotriesterase Reaction Mechanism. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1253-1255.	2.6	105
62	Functionalization Methodology for Synthesis of Silane-End-Functionalized Linear and Star Poly(aryl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Macromolecules, 0, , .	4.8	1