

Shao-Liang Zheng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5474362/publications.pdf>

Version: 2024-02-01

59
papers

1,828
citations

257101

24
h-index

276539

41
g-index

67
all docs

67
docs citations

67
times ranked

2789
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing Edge Site Reactivity of Oxidic Cobalt Water Oxidation Catalysts. <i>Journal of the American Chemical Society</i> , 2016, 138, 4229-4236.	6.6	178
2	Synthesis of a copper-supported triplet nitrene complex pertinent to copper-catalyzed amination. <i>Science</i> , 2019, 365, 1138-1143.	6.0	131
3	Trap-Free Halogen Photoelimination from Mononuclear Ni(III) Complexes. <i>Journal of the American Chemical Society</i> , 2015, 137, 6472-6475.	6.6	125
4	Divergent prebiotic synthesis of pyrimidine and 8-oxo-purine ribonucleotides. <i>Nature Communications</i> , 2017, 8, 15270.	5.8	84
5	Synthetic Variation and Structural Trends in Layered Two-Dimensional Alkylammonium Lead Halide Perovskites. <i>Chemistry of Materials</i> , 2019, 31, 5592-5607.	3.2	80
6	Analysis of rapidly synthesized guest-filled porous complexes with synchrotron radiation: practical guidelines for the crystalline sponge method. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, 46-58.	0.0	79
7	Direct Observation of a Photoinduced Nonstabilized Nitrile Imine Structure in the Solid State. <i>Journal of the American Chemical Society</i> , 2009, 131, 18036-18037.	6.6	58
8	An Unstable Ligand-Unsupported CuI Dimer Stabilized in a Supramolecular Framework. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 4614-4617.	7.2	56
9	Enantioselective C-H Amination Catalyzed by Nickel Iminyl Complexes Supported by Anionic Bisoxazoline (BOX) Ligands. <i>Journal of the American Chemical Society</i> , 2021, 143, 817-829.	6.6	52
10	Ligand Field Strength Mediates Electron Delocalization in Octahedral $[(\text{H}_2\text{L})_2\text{Fe}_6(\text{L}^2)_m]$ Clusters. <i>Journal of the American Chemical Society</i> , 2015, 137, 11126-11143.	6.6	47
11	C-H Amination Mediated by Cobalt Organoazide Adducts and the Corresponding Cobalt Nitrenoid Intermediates. <i>Journal of the American Chemical Society</i> , 2020, 142, 11232-11243.	6.6	44
12	Synthesis, characterization and C-H amination reactivity of nickel iminyl complexes. <i>Chemical Science</i> , 2020, 11, 1260-1268.	3.7	43
13	Effect of the Environment on Molecular Properties: Synthesis, Structure, and Photoluminescence of Cu(I) Bis(2,9-dimethyl-1,10-phenanthroline) Nanoclusters in Eight Different Supramolecular Frameworks. <i>Inorganic Chemistry</i> , 2006, 45, 9281-9289.	1.9	39
14	Regioselective Synthesis, NMR, and Crystallographic Analysis of N1-Substituted Pyrazoles. <i>Journal of Organic Chemistry</i> , 2017, 82, 8864-8872.	1.7	38
15	Supramolecular Solids as a Medium for Single-Crystal-to-Single-Crystal E/Z Photoisomerization: Kinetic Study of the Photoreactions of Two Zn-Coordinated Tiglic Acid Molecules. <i>Chemistry - A European Journal</i> , 2008, 14, 706-713.	1.7	36
16	Supramolecular solids and time-resolved diffraction. <i>CrystEngComm</i> , 2006, 8, 735.	1.3	31
17	Single-crystal-to-single-crystal E/Z isomerization of tiglic acid in a supramolecular framework. <i>Acta Crystallographica Section B: Structural Science</i> , 2007, 63, 644-649.	1.8	31
18	Photocrystallographic Observation of Halide-Bridged Intermediates in Halogen Photoeliminations. <i>Journal of the American Chemical Society</i> , 2014, 136, 15346-15355.	6.6	31

#	ARTICLE	IF	CITATIONS
19	Luminescence Quenching and Energy Transfer in Supramolecular Solids. <i>Crystal Growth and Design</i> , 2005, 5, 2050-2059.	1.4	29
20	The Nature of the Ag ^I ...Ag ^I Interaction in Different Ag(NH ₃) ₂ Dimers Embedded in Supramolecular Solids. <i>Chemistry - A European Journal</i> , 2007, 13, 8583-8590.	1.7	28
21	Obtaining a Low and Wide Atomic Layer Deposition Window (150–275 °C) for In ₂ O ₃ Films Using an In ^{III} Amidinate and H ₂ O. <i>Chemistry - A European Journal</i> , 2018, 24, 9525-9529.	1.7	28
22	The crystalline sponge method: a solvent-based strategy to facilitate noncovalent ordered trapping of solid and liquid organic compounds. <i>CrystEngComm</i> , 2017, 19, 4528-4534.	1.3	27
23	Ligand-unsupported Au(I) chains with short Au(I)–Au(I) contacts. <i>Chemical Communications</i> , 2006, , 3711-3713.	2.2	26
24	Enantioselective Conversion of Achiral Cyclohexadienones to Chiral Cyclohexenones by Desymmetrization. <i>Organic Letters</i> , 2016, 18, 6172-6175.	2.4	26
25	Waikikiamides A–C: Complex Diketopiperazine Dimer and Diketopiperazine–Polyketide Hybrids from a Hawaiian Marine Fungal Strain <i>Aspergillus</i> sp. FM242. <i>Organic Letters</i> , 2020, 22, 4408-4412.	2.4	25
26	Syntheses, Structures, Photoluminescence and Theoretical Studies of Xanthone in Crystalline Resorcinarene-Based Inclusion Complexes. <i>Chemistry - A European Journal</i> , 2005, 11, 3583-3590.	1.7	24
27	Single-crystal-to-single-crystal E–Z and Z–E isomerizations of 3-chloroacrylic acid within the nanocavities of a supramolecular framework. <i>Chemical Communications</i> , 2007, , 2735-2737.	2.2	23
28	Teaching with the Case Study Method To Promote Active Learning in a Small Molecule Crystallography Course for Chemistry Students. <i>Journal of Chemical Education</i> , 2016, 93, 270-274.	1.1	23
29	Melting Transitions of the Organic Subphase in Layered Two-Dimensional Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2924-2930.	2.1	23
30	Competitive isomerization and dimerization in co-crystals of 1,1,6,6-tetraphenyl-2,4-hexadiyne-1,6-diol and sorbic acid: a new look at stereochemical requirements for [2+2] dimerization. <i>Chemical Communications</i> , 2008, , 2538.	2.2	22
31	Stereoelectronic Effects in Cl ₂ Elimination from Binuclear Pt(III) Complexes. <i>Inorganic Chemistry</i> , 2016, 55, 11815-11820.	1.9	22
32	Colossal barocaloric effects with ultralow hysteresis in two-dimensional metal–halide perovskites. <i>Nature Communications</i> , 2022, 13, 2536.	5.8	22
33	Emission quenching of photoactive molecules embedded in supramolecular solids: Synthesis, structure and photoluminescence studies of benzil in a CMCR-based inclusion complex with a saturated linker molecule. <i>CrystEngComm</i> , 2005, 7, 289.	1.3	20
34	Engineering delocalizing π -electronic [CuII($\frac{1}{4}$ -OH)($\frac{1}{4}$ -pz) ₃] ²⁺ species into organometallic frameworks by Ag–I coordination. <i>CrystEngComm</i> , 2008, 10, 1467.	1.3	18
35	Synthesis of Well-Defined Bicapped Octahedral Iron Clusters [(μ -tren) ₂ Fe ₈ (PMe ₂ Ph) ₂] ⁿ⁺ ($n=0, \pm 1$). <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12009-12013.	7.2	18
36	Electronic Structures and Reactivity Profiles of Aryl Nitrenoid-Bridged Dicopper Complexes. <i>Journal of the American Chemical Society</i> , 2020, 142, 2264-2276.	6.6	18

#	ARTICLE	IF	CITATIONS
37	Teaching Outside the Classroom: Field Trips in Crystallography Education for Chemistry Students. <i>Journal of Chemical Education</i> , 2016, 93, 1671-1675.	1.1	17
38	C ^α -H Activation from Iron(II)-Nitroxido Complexes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12197-12201.	7.2	16
39	Ground State and Excited State Tuning in Ferric Dipyrrin Complexes Promoted by Ancillary Ligand Exchange. <i>Inorganic Chemistry</i> , 2017, 56, 5892-5901.	1.9	14
40	Exposing the inadequacy of redox formalisms by resolving redox inequivalence within isovalent clusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15836-15841.	3.3	11
41	Synthesis and electronic structure studies of a Cr-imido redox series. <i>Chemical Communications</i> , 2020, 56, 3163-3166.	2.2	11
42	Luminescence from open-shell, first-row transition metal dipyrrin complexes. <i>Dalton Transactions</i> , 2021, 50, 6418-6422.	1.6	11
43	Connecting Key Concepts with Student Experience: Introducing Small-Molecule Crystallography to Chemistry Undergraduates Using a Flexible Laboratory Module. <i>Journal of Chemical Education</i> , 2018, 95, 2279-2283.	1.1	10
44	Pushing Single-Oxygen-Atom-Bridged Bimetallic Systems to the Right: A Cryptand-Encapsulated Co ^{II} -O ^{II} -Co Unit. <i>Journal of the American Chemical Society</i> , 2015, 137, 15354-15357.	6.6	9
45	From the source: student-centred guest lecturing in a chemical crystallography class. <i>Journal of Applied Crystallography</i> , 2018, 51, 909-914.	1.9	9
46	Synthesis, Characterization, and Hydrogen Evolution Activity of Metallo-meso-(4-fluoro-2,6-dimethylphenyl)porphyrin Derivatives. <i>ACS Omega</i> , 2022, 7, 8988-8994.	1.6	8
47	Selective electrochemical capture and release of uranyl from aqueous alkali, lanthanide, and actinide mixtures using redox-switchable carboranes. <i>Chemical Science</i> , 2022, 13, 3369-3374.	3.7	7
48	Proton-coupled electron transfer of macrocyclic ring hydrogenation: The chlorinphlorin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2122063119.	3.3	6
49	Ligation of Bipyridyl Ligands to Metal 8-Hydroxyquinolines - Synthesis, Crystal Structures, and TDDFT Study. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 5076-5081.	1.0	4
50	O-Heterocycle Synthesis via Intramolecular C ^α -H Alkoxylation Catalyzed by Iron Acetylacetonate. <i>Journal of the American Chemical Society</i> , 2021, 143, 7480-7489.	6.6	4
51	C ^α -H Activation from Iron(II)-Nitroxido Complexes. <i>Angewandte Chemie</i> , 2017, 129, 12365-12369.	1.6	3
52	Syntheses and solid-state structures of two cofacial (bis)dipyrrin dichromium complexes in different charge states. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2021, 77, 161-166.	0.2	2
53	Teaching space-group diagrams to chemistry students through a peer-tutoring approach. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2021, 77, 864-866.	0.2	2
54	Resolving Space-Group-Choice Dilemma in Small-Molecule Crystallography for Chemistry Students Using Case-Based Learning Modules. <i>Journal of Chemical Education</i> , 2021, 98, 3180-3188.	1.1	2

#	ARTICLE	IF	CITATIONS
55	Ligand Tuning of the Excitation Wavelength of a Solid state <i>E/Z</i> Isomerization: [Zn(TA) ₂ (2,2'-Bipyridyl)] in a Supramolecular Framework. Journal of the Chinese Chemical Society, 2009, 56, 16-21.	0.8	1
56	Crystal structure of the RuPhos ligand. Acta Crystallographica Section E: Crystallographic Communications, 2021, 77, 171-174.	0.2	1
57	Crystal structure of a trifluoromethyl benzoato quadruple-bonded dimolybdenum complex. Acta Crystallographica Section E: Crystallographic Communications, 2022, 78, 154-158.	0.2	1
58	Synthesis of the HIF-2 α translation inhibitor compound 76 via a Japp-Klingemann coupling. Tetrahedron Letters, 2019, 60, 983-985.	0.7	0
59	NF- κ B inhibitory, antimicrobial and antiproliferative potentials of compounds from Hawaiian fungus <i>Aspergillus polyporicola</i> FS910. 3 Biotech, 2021, 11, 391.	1.1	0