

Zhichang Liu

List of Publications by Year in descending order

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65
papers

3,744
citations

117571

34
h-index

128225

60
g-index

70
all docs

70
docs citations

70
times ranked

4325
citing authors

#	ARTICLE	IF	CITATIONS
1	Surveying macrocyclic chemistry: from flexible crown ethers to rigid cyclophanes. <i>Chemical Society Reviews</i> , 2017, 46, 2459-2478.	18.7	639
2	Electron Sharing and Anion Recognition in Molecular Triangular Prisms. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13100-13104.	7.2	160
3	A Radically Configurable Six-State Compound. <i>Science</i> , 2013, 339, 429-433.	6.0	158
4	Selective isolation of gold facilitated by second-sphere coordination with β -cyclodextrin. <i>Nature Communications</i> , 2013, 4, 1855.	5.8	156
5	Complexation of Polyoxometalates with Cyclodextrins. <i>Journal of the American Chemical Society</i> , 2015, 137, 4111-4118.	6.6	150
6	Photoexpulsion of Surface-Grafted Ruthenium Complexes and Subsequent Release of Cytotoxic Cargos to Cancer Cells from Mesoporous Silica Nanoparticles. <i>Journal of the American Chemical Society</i> , 2013, 135, 11603-11613.	6.6	128
7	Solution-Phase Mechanistic Study and Solid-State Structure of a Tris(bipyridinium radical cation) Inclusion Complex. <i>Journal of the American Chemical Society</i> , 2012, 134, 3061-3072.	6.6	123
8	Selective Extraction of C_{70} by a Tetragonal Prismatic Porphyrin Cage. <i>Journal of the American Chemical Society</i> , 2018, 140, 13835-13842.	6.6	105
9	Interpenetration Isomerism in Triptycene-Based Hydrogen-Bonded Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1664-1669.	7.2	93
10	Discrete Dimers of Redox-Active and Fluorescent Perylene Diimide-Based Rigid Isosceles Triangles in the Solid State. <i>Journal of the American Chemical Society</i> , 2019, 141, 1290-1303.	6.6	87
11	Assembly of Supramolecular Nanotubes from Molecular Triangles and 1,2-Dihaloalkanes. <i>Journal of the American Chemical Society</i> , 2014, 136, 16651-16660.	6.6	81
12	Noninvasive Substitution of K^+ Sites in Cyclodextrin Metal-Organic Frameworks by Li^+ Ions. <i>Journal of the American Chemical Society</i> , 2017, 139, 11020-11023.	6.6	79
13	An Electrochromic Tristable Molecular Switch. <i>Journal of the American Chemical Society</i> , 2015, 137, 13484-13487.	6.6	78
14	Cation-Dependent Gold Recovery with β -Cyclodextrin Facilitated by Second-Sphere Coordination. <i>Journal of the American Chemical Society</i> , 2016, 138, 11643-11653.	6.6	71
15	Controlling Switching in Bistable [2]Catenanes by Combining Donor-Acceptor and Radical-Radical Interactions. <i>Journal of the American Chemical Society</i> , 2012, 134, 11709-11720.	6.6	70
16	A Dynamic Tetracationic Macrocyclic Exhibiting Photoswitchable Molecular Encapsulation. <i>Journal of the American Chemical Society</i> , 2019, 141, 1280-1289.	6.6	66
17	Folding of Oligoviologens Induced by Radical-Radical Interactions. <i>Journal of the American Chemical Society</i> , 2015, 137, 876-885.	6.6	65
18	Chiral Redox-Active Isosceles Triangles. <i>Journal of the American Chemical Society</i> , 2016, 138, 5968-5977.	6.6	62

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19	Molecular Russian dolls. <i>Nature Communications</i> , 2018, 9, 5275.	5.8	61
20	Redox Control of the Binding Modes of an Organic Receptor. <i>Journal of the American Chemical Society</i> , 2015, 137, 11057-11068.	6.6	55
21	Single-Crystal Polycationic Polymers Obtained by Single-Crystal-to-Single-Crystal Photopolymerization. <i>Journal of the American Chemical Society</i> , 2020, 142, 6180-6187.	6.6	50
22	A Semiconducting Organic Radical Cationic Host-Guest Complex. <i>ACS Nano</i> , 2012, 6, 9964-9971.	7.3	47
23	Mechanically induced intramolecular electron transfer in a mixed-valence molecular shuttle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11546-11551.	3.3	46
24	Epitaxial Growth of β -Cyclodextrin-Containing Metal-Organic Frameworks Based on a Host-Guest Strategy. <i>Journal of the American Chemical Society</i> , 2018, 140, 11402-11407.	6.6	44
25	On the Tacticity of Polynorbornenes with 5,6-endo Pendant Groups That Contain Substituted Aryl Chromophores. <i>Chemistry - an Asian Journal</i> , 2007, 2, 764-774.	1.7	43
26	Synthesis and solution-state dynamics of donor-acceptor oligorotaxane foldamers. <i>Chemical Science</i> , 2013, 4, 1470.	3.7	43
27	Second-Sphere Coordination Revisited. <i>Chimia</i> , 2014, 68, 315.	0.3	42
28	Supramolecular Double-Helix Formation by Diastereoisomeric Conformations of Configurationally Enantiomeric Macrocycles. <i>Journal of the American Chemical Society</i> , 2016, 138, 14469-14480.	6.6	42
29	A Square-Planar Tetracoordinate Oxygen-Containing Ti_4O_{17} Cluster Stabilized by Two 1,1'-Ferrocenedicarboxylato Ligands. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9193-9197.	7.2	41
30	High-Efficiency Gold Recovery Using Cucurbit[6]uril. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38768-38777.	4.0	41
31	Radically promoted formation of a molecular lasso. <i>Chemical Science</i> , 2017, 8, 2562-2568.	3.7	39
32	Mechanical-Bond-Protected, Air-Stable Radicals. <i>Journal of the American Chemical Society</i> , 2017, 139, 12704-12709.	6.6	36
33	Linear Nonalternant Isomers of Acenes Fusing Multiple Azulene Units. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	36
34	Oligomeric Pseudorotaxanes Adopting Infinite Chain Lattice Superstructures. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7231-7235.	7.2	34
35	Two-point halogen bonding between 3,6-dihalopyromellitic diimides. <i>Chemical Science</i> , 2014, 5, 4242-4248.	3.7	32
36	Visible Light-Driven Artificial Molecular Switch Actuated by Radical-Radical and Donor-Acceptor Interactions. <i>Journal of Physical Chemistry A</i> , 2015, 119, 6317-6325.	1.1	31

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37	Stabilizing the Naphthalenediimide Radical within a Tetracationic Cyclophane. <i>Journal of the American Chemical Society</i> , 2019, 141, 16915-16922.	6.6	30
38	Interpenetration Isomerism in Triptycene-Based Hydrogen-Bonded Organic Frameworks. <i>Angewandte Chemie</i> , 2019, 131, 1678-1683.	1.6	29
39	Selective Recovery and Detection of Gold with Cucurbit[urils] ($n = 5-7$). <i>Inorganic Chemistry</i> , 2020, 59, 3850-3855.	1.9	29
40	Coherently Aligned Porphyrin-Appended Polynorbornenes. <i>Chemistry - A European Journal</i> , 2009, 15, 5719-5728.	1.7	28
41	Three-Dimensional Architectures Incorporating Stereoregular Donor-Acceptor Stacks. <i>Chemistry - A European Journal</i> , 2013, 19, 8457-8465.	1.7	28
42	Supramolecular Gelation of Rigid Triangular Macrocycles through Rings of Multiple C-H...O Interactions Acting Cooperatively. <i>Journal of Organic Chemistry</i> , 2016, 81, 2581-2588.	1.7	27
43	Organic Counteranion Co-assembly Strategy for the Formation of β -Cyclodextrin-Containing Hybrid Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 2042-2050.	6.6	26
44	A High Yield and Pilot-Scale Process for the Preparation of Adapalene. <i>Organic Process Research and Development</i> , 2006, 10, 285-288.	1.3	25
45	Extended metal-carbohydrate frameworks. <i>Pure and Applied Chemistry</i> , 2014, 86, 1323-1334.	0.9	25
46	Reticular exploration of uranium-based metal-organic frameworks with hexacarboxylate building units. <i>Nano Research</i> , 2021, 14, 376-380.	5.8	25
47	A Hierarchical Nanoporous Diamondoid Superstructure. <i>CheM</i> , 2019, 5, 2353-2364.	5.8	23
48	TetrazineBox: A Structurally Transformative Toolbox. <i>Journal of the American Chemical Society</i> , 2020, 142, 5419-5428.	6.6	23
49	Molecular-strain engineering of double-walled tetrahedra. <i>CheM</i> , 2021, 7, 2160-2174.	5.8	23
50	A rigid donor-acceptor daisy chain dimer. <i>Chemical Communications</i> , 2012, 48, 6791.	2.2	22
51	Neighboring Component Effect in a Tri-stable [2]Rotaxane. <i>Journal of the American Chemical Society</i> , 2018, 140, 13827-13834.	6.6	22
52	Symbiotic Control in Mechanical Bond Formation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12387-12392.	7.2	21
53	Simple, efficient copper-free Sonogashira coupling of haloaryl carboxylic acids or unactivated aryl bromides with terminal alkynes. <i>Catalysis Communications</i> , 2008, 9, 2154-2157.	1.6	19
54	Formation of ring-in-ring complexes between crown ethers and rigid TVBox ⁸⁺ . <i>Chemical Communications</i> , 2015, 51, 1432-1435.	2.2	19

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55	Mixed-Valence Superstructure Assembled from a Mixed-Valence Host-Guest Complex. <i>Journal of the American Chemical Society</i> , 2018, 140, 9387-9391.	6.6	18
56	Highly Stable Organic Bisradicals Protected by Mechanical Bonds. <i>Journal of the American Chemical Society</i> , 2020, 142, 7190-7197.	6.6	17
57	Guest recognition enhanced by lateral interactions. <i>Chemical Science</i> , 2019, 10, 5114-5123.	3.7	16
58	Tetraphenylethylene-Incorporated Macrocycles and Nanocages: Construction and Applications. <i>ACS Applied Nano Materials</i> , 2022, 5, 13940-13958.	2.4	14
59	Symbiotic Control in Mechanical Bond Formation. <i>Angewandte Chemie</i> , 2016, 128, 12575-12580.	1.6	7
60	Tetrahedron. <i>Chinese Journal of Chemistry</i> , 2019, 37, 834-842.	2.6	6
61	Hydrogen-Bonding Induced Cooperative Effect on the Energy Transfer in Helical Polynorbornenes Appended with Porphyrin-Containing Amidic Alanine Linkers. <i>Chemistry - an Asian Journal</i> , 2010, 5, 1425-1438.	1.7	5
62	Molecular Bows-Strained Bow-shaped Macrocycles. <i>Chemistry Letters</i> , 2020, 49, 1329-1336.	0.7	5
63	Mechanical trapping and in situ derivatization of the porphodimethene intermediate. <i>Materials Today Chemistry</i> , 2022, 24, 100868.	1.7	5
64	Linear Nonalternant Isomers of Acenes Fusing Multiple Azulene Units. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
65	Electron Sharing and Anion-Recognition in Molecular Triangular Prisms (<i>Angew.</i>)	1.6	3