

Dawei Zhang

List of Publications by Year in descending order

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45
papers

2,366
citations

218677

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#	ARTICLE	IF	CITATIONS
1	Templation and Concentration Drive Conversion Between a $\text{Fe}^{II}_{12}\text{L}_{12}$ Pseudoicosahedron, a $\text{Fe}^{II}_4\text{L}_4$ Tetrahedron, and a $\text{Fe}^{II}_2\text{L}_3$ Helicate. <i>Journal of the American Chemical Society</i> , 2022, 144, 1106-1112.	13.7	21
2	Self-assembly of a large, closed capsule reminiscent of protein-cage formation. <i>CheM</i> , 2022, 8, 902-904.	11.7	0
3	CO_2 atmosphere enables efficient catalytic hydration of ethylene oxide by ionic liquids/organic bases at low water/epoxide ratios. <i>Green Chemistry</i> , 2021, 23, 3386-3391.	9.0	15
4	A Cavity-Tailored Metal-Organic Cage Entraps Gases Selectively in Solution and the Amorphous Solid State. <i>Angewandte Chemie</i> , 2021, 133, 11895-11898.	2.0	9
5	A Cavity-Tailored Metal-Organic Cage Entraps Gases Selectively in Solution and the Amorphous Solid State. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11789-11792.	13.8	49
6	Sterics and Hydrogen Bonding Control Stereochemistry and Self-Sorting in BINOL-Based Assemblies. <i>Journal of the American Chemical Society</i> , 2021, 143, 9009-9015.	13.7	35
7	Metal-organic cages for molecular separations. <i>Nature Reviews Chemistry</i> , 2021, 5, 168-182.	30.2	227
8	Control over the Free Space within Poly(ionic liquid)s for Selective Adsorption of "Size-Matching" Dyes. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4864-4873.	4.4	3
9	Improved Acid Resistance of a Metal-Organic Cage Enables Cargo Release and Exchange between Hosts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7435-7438.	13.8	47
10	Improved Acid Resistance of a Metal-Organic Cage Enables Cargo Release and Exchange between Hosts. <i>Angewandte Chemie</i> , 2020, 132, 7505-7508.	2.0	11
11	Transformation Network Culminating in a Heteroleptic $\text{Cd}_6\text{L}_6\text{L}^2_2$ Twisted Trigonal Prism. <i>Journal of the American Chemical Society</i> , 2020, 142, 9152-9157.	13.7	47
12	Temperature Controls Guest Uptake and Release from Zn_4L_4 Tetrahedra. <i>Journal of the American Chemical Society</i> , 2019, 141, 14534-14538.	13.7	74
13	Bioinspired Oxidation of Methane in the Confined Spaces of Molecular Cages. <i>Inorganic Chemistry</i> , 2019, 58, 7220-7228.	4.0	38
14	Enantiopure $[\text{Cs}^+/\text{Xe}^{\ddot{S}}\text{Cryptophane}]^{\ddot{S}}\text{Fe}^{II}_4\text{L}_4$ Hierarchical Superstructures. <i>Journal of the American Chemical Society</i> , 2019, 141, 8339-8345.	13.7	83
15	Selective Separation of Polyaromatic Hydrocarbons by Phase Transfer of Coordination Cages. <i>Journal of the American Chemical Society</i> , 2019, 141, 18949-18953.	13.7	70
16	Selective Anion Extraction and Recovery Using a $\text{Fe}^{II}_4\text{L}_4$ Cage. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3717-3721.	13.8	117
17	Selective Anion Extraction and Recovery Using a $\text{Fe}^{II}_4\text{L}_4$ Cage. <i>Angewandte Chemie</i> , 2018, 130, 3779-3783.	2.0	45
18	Functional Capsules via Subcomponent Self-Assembly. <i>Accounts of Chemical Research</i> , 2018, 51, 2423-2436.	15.6	380

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19	“Breathing” Motion of a Modulable Molecular Cavity. <i>Chemistry - A European Journal</i> , 2017, 23, 6495-6498.	3.3	20
20	Emergence of Hemicyptophanes: From Synthesis to Applications for Recognition, Molecular Machines, and Supramolecular Catalysis. <i>Chemical Reviews</i> , 2017, 117, 4900-4942.	47.7	160
21	Synthesis, Resolution, and Absolute Configuration of Chiral Tris(2-pyridylmethyl)amine-Based Hemicyptophane Molecular Cages. <i>Journal of Organic Chemistry</i> , 2017, 82, 6082-6088.	3.2	18
22	Anion Binding in Water Drives Structural Adaptation in an Azaphosphatrane-Functionalized Fe ^{IV} L ₄ Tetrahedron. <i>Journal of the American Chemical Society</i> , 2017, 139, 6574-6577.	13.7	94
23	Sulfoxidation inside a C ₃ -Vanadium(V) Bowl-Shaped Catalyst. <i>ACS Catalysis</i> , 2017, 7, 7340-7345.	11.2	25
24	Tailored oxido-vanadium(V) cage complexes for selective sulfoxidation in confined spaces. <i>Chemical Science</i> , 2017, 8, 789-794.	7.4	36
25	Azaphosphatranes as Hydrogen Bonding Organocatalysts for the Activation of Carbonyl Groups: Investigation of Lactide Ring Opening Polymerization. <i>European Journal of Organic Chemistry</i> , 2016, 1619-1624.	2.4	10
26	Helical, Axial, and Central Chirality Combined in a Single Cage: Synthesis, Absolute Configuration, and Recognition Properties. <i>Chemistry - A European Journal</i> , 2016, 22, 8038-8042.	3.3	27
27	Large Scale Synthesis of Enantiopure Molecular Cages: Chiroptical and Recognition Properties. <i>Chemistry - A European Journal</i> , 2016, 22, 2068-2074.	3.3	23
28	Insights into the Complexity of Weak Intermolecular Interactions Interfering in Host-Guest Systems. <i>ChemPhysChem</i> , 2015, 16, 2931-2935.	2.1	6
29	A fluorescent heteroditopic hemicyptophane cage for the selective recognition of choline phosphate. <i>Chemical Communications</i> , 2015, 51, 2679-2682.	4.1	33
30	Acid Strength Controlled Reaction Pathways for the Catalytic Cracking of 1-Pentene to Propene over ZSM-5. <i>ACS Catalysis</i> , 2015, 5, 4048-4059.	11.2	71
31	N-Heterocyclic Carbene Formation Induced Fluorescent and Colorimetric Sensing of Fluoride Using Perimidinium Derivatives. <i>Chemistry - A European Journal</i> , 2014, 20, 17161-17167.	3.3	17
32	Acid strength controlled reaction pathways for the catalytic cracking of 1-butene to propene over ZSM-5. <i>Journal of Catalysis</i> , 2014, 309, 136-145.	6.2	145
33	One-Pot Conversion of Carbon Dioxide, Ethylene Oxide, and Amines to Aryloxazolidinones Catalyzed with Binary Ionic Liquids. <i>ChemCatChem</i> , 2014, 6, 278-283.	3.7	87
34	Recent advances in H ₂ PO ₄ [−] fluorescent sensors. <i>RSC Advances</i> , 2014, 4, 29735-29749.	3.6	65
35	A proof-of-concept fluorescent strategy for highly selective detection of Cr(vi) based on inner filter effect using a hydrophilic ionic chemosensor. <i>Analytical Methods</i> , 2013, 5, 1669.	2.7	55
36	A viologen-urea-based anion receptor: Colorimetric sensing of dicarboxylate anions. <i>Chinese Chemical Letters</i> , 2013, 24, 688-690.	9.0	11

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37	Microfabrication-free fused silica nanofluidic interface for on chip electrokinetic stacking of DNA. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 69-76.	2.2	11
38	A bifunctional acridine-based fluorescent sensor: ratiometric sensing of H^+ and obvious fluorescence quenching towards H_2PO_4^- and H_2S . <i>Tetrahedron</i> , 2013, 69, 10457-10462.	2.8	37
39	Acridine-based macrocyclic fluorescent sensors: self-assembly behavior characterized by crystal structures and a tunable bathochromic-shift in emission induced by H_2PO_4^- via adjusting the ring size and rigidity. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 3375.	4.1	42
40	Novel benzimidazolium-urea-based macrocyclic fluorescent sensors: synthesis, ratiometric sensing of H_2PO_4^- and improvement of the anion binding performance via a synergistic binding strategy. <i>Chemical Communications</i> , 2013, 49, 6149.	2.7	14
41	Pyrene-appended, benzimidazoliums-urea-based ratiometric fluorescent chemosensor for highly selective detecting of H_2PO_4^- . <i>Analytical Methods</i> , 2013, 5, 3222.	4.9	5
42	Synthesis of Bis-benzimidazolium Cyclic Receptors and Their Anion Binding Properties. <i>Chinese Journal of Chemistry</i> , 2013, 31, 673-678.	1.4	8
43	Selective recognition of acetate ion by perimidinium-based receptors. <i>Tetrahedron Letters</i> , 2012, 53, 6292-6296.	6.0	9
44	Nanofracture on fused silica microchannel for Donnan exclusion based electrokinetic stacking of biomolecules. <i>Lab on A Chip</i> , 2012, 12, 3408.	3.0	35
45	The immobilization of hydrophilic ionic liquid for Cr(vi) retention and chromium speciation. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1688.		