

Zhifang Wang

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

2,284
citations

361413

20
h-index

395702

33
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34
all docs

34
docs citations

34
times ranked

2047
citing authors

#	ARTICLE	IF	CITATIONS
1	Covalent organic frameworks for separation applications. <i>Chemical Society Reviews</i> , 2020, 49, 708-735.	38.1	804
2	Green synthesis of olefin-linked covalent organic frameworks for hydrogen fuel cell applications. <i>Nature Communications</i> , 2021, 12, 1982.	12.8	147
3	Bottom-Up Synthesis of 8-Connected Three-Dimensional Covalent Organic Frameworks for Highly Efficient Ethylene/Ethane Separation. <i>Journal of the American Chemical Society</i> , 2022, 144, 5643-5652.	13.7	131
4	PolyCOFs: A New Class of Freestanding Responsive Covalent Organic Framework Membranes with High Mechanical Performance. <i>ACS Central Science</i> , 2019, 5, 1352-1359.	11.3	126
5	Self-Healing Hyper-Cross-Linked Metal-Organic Polyhedra (HCMOPs) Membranes with Antimicrobial Activity and Highly Selective Separation Properties. <i>Journal of the American Chemical Society</i> , 2019, 141, 12064-12070.	13.7	124
6	Scalable Room-Temperature Synthesis of Highly Robust Ethane-Selective Metal-Organic Frameworks for Efficient Ethylene Purification. <i>Journal of the American Chemical Society</i> , 2021, 143, 8654-8660.	13.7	124
7	Soft Porous Crystal Based upon Organic Cages That Exhibit Guest-Induced Breathing and Selective Gas Separation. <i>Journal of the American Chemical Society</i> , 2019, 141, 9408-9414.	13.7	98
8	Design and application of ionic covalent organic frameworks. <i>Coordination Chemistry Reviews</i> , 2021, 438, 213873.	18.8	80
9	Stimuli-Responsive Crystalline Smart Materials: From Rational Design and Fabrication to Applications. <i>Accounts of Chemical Research</i> , 2022, 55, 1047-1058.	15.6	68
10	Post-synthetic modifications of metal-organic cages. <i>Nature Reviews Chemistry</i> , 2022, 6, 339-356.	30.2	66
11	Covalent triazine framework-supported palladium as a ligand-free catalyst for the selective double carbonylation of aryl iodides under ambient pressure of CO. <i>Chemical Communications</i> , 2016, 52, 2960-2963.	4.1	60
12	Fabrication of Photoresponsive Crystalline Artificial Muscles Based on PEGylated Covalent Organic Framework Membranes. <i>ACS Central Science</i> , 2020, 6, 787-794.	11.3	57
13	Rational Fabrication of Crystalline Smart Materials for Rapid Detection and Efficient Removal of Ozone. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6055-6060.	13.8	55
14	Thermally rearranged covalent organic framework with flame-retardancy as a high safety Li-ion solid electrolyte. <i>EScience</i> , 2022, 2, 311-318.	41.6	41
15	Fumigant activity of volatiles from <i>Streptomyces alboflavus</i> TD-1 against <i>Fusarium moniliforme</i> Sheldon. <i>Journal of Microbiology</i> , 2013, 51, 477-483.	2.8	36
16	Melt polymerization synthesis of a class of robust self-shaped olefin-linked COF foams as high-efficiency separators. <i>Science China Chemistry</i> , 2022, 65, 1173-1184.	8.2	35
17	Squaramide-decorated covalent organic framework as a new platform for biomimetic hydrogen-bonding organocatalysis. <i>Chemical Communications</i> , 2019, 55, 5423-5426.	4.1	33
18	Selectively monitoring glutathione in human serum and growth-associated living cells using gold nanoclusters. <i>Biosensors and Bioelectronics</i> , 2020, 148, 111829.	10.1	33

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19	Design and application of covalent organic frameworks for ionic conduction. <i>Polymer Chemistry</i> , 2021, 12, 4874-4894.	3.9	27
20	COF-inspired fabrication of two-dimensional polyoxometalate based open frameworks for biomimetic catalysis. <i>Nanoscale</i> , 2020, 12, 21218-21224.	5.6	25
21	One-pot two-step facile synthesis of 2,3,5,6-tetrafluorobenzonitrile-containing dithiocarbamic acid esters. <i>Tetrahedron Letters</i> , 2015, 56, 5135-5139.	1.4	17
22	Facile preparation of peroxidase-like core-shell nanorods and application as platform for colorimetric determination of glucose, insulin and glucose/insulin ratio. <i>Talanta</i> , 2019, 204, 285-293.	5.5	15
23	Monitoring biothiols dynamics in living cells by ratiometric fluorescent gold carbon dots. <i>Talanta</i> , 2020, 218, 121214.	5.5	15
24	Base-promoted direct and highly selective alkynylation of electron-deficient octafluorotoluene. <i>RSC Advances</i> , 2015, 5, 31993-31997.	3.6	14
25	Water-dispersible Hollow Microporous Organic Network Spheres as Substrate for Electroless Deposition of Ultrafine Pd Nanoparticles with High Catalytic Activity and Recyclability. <i>Chemistry - an Asian Journal</i> , 2016, 11, 3178-3182.	3.3	11
26	A Class of Rigid-Flexible Coupling Crystalline Crosslinked Polymers as Vapomechanical Actuators. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	11
27	Engineering COFs as smart triggers for rapid capture and controlled release of singlet oxygen. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27434-27441.	10.3	10
28	Rational Fabrication of Crystalline Smart Materials for Rapid Detection and Efficient Removal of Ozone. <i>Angewandte Chemie</i> , 2021, 133, 6120-6125.	2.0	9
29	Spontaneous Electroless Deposition of Ultrafine Pd Nanoparticles on Poly(phenylene butadiynylene)s for the Hydroxycarbonylation of Aryl Iodides. <i>ChemistrySelect</i> , 2016, 1, 1832-1836.	1.5	3
30	De Novo Development of a Universal Biosensing Platform by Rapid Direct Native Protein Modification. <i>Analytical Chemistry</i> , 2021, 93, 5291-5300.	6.5	3
31	A Class of Rigid-Flexible Coupling Crystalline Crosslinked Polymers as Vapomechanical Actuators. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	3
32	The recent developments and applications of chiral covalent organic frameworks. <i>Scientia Sinica Chimica</i> , 2019, 49, 662-671.	0.4	1