Baishu Zheng

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3819933/publications.pdf

Version: 2024-02-01

54 papers	2,488 citations	236925 25 h-index	197818 49 g-index
54 all docs	54 docs citations	54 times ranked	2357 citing authors

#	Article	IF	Citations
1	Anion Regulates scu Topological Porous Coordination Polymers into the Acetylene Trap. ACS Applied Materials & Interfaces, 2022, 14, 13550-13559.	8.0	14
2	Identifying promising covalent organic frameworks for HCHO/O2Â+ÂN2 adsorption from indoor air pollution using high-throughput computational screening. Computational and Theoretical Chemistry, 2022, 1210, 113655.	2.5	5
3	A chemically stable nanoporous coordination polymer with fixed and free Cu2+ ions for boosted C2H2/CO2 separation. Nano Research, 2021, 14, 546-553.	10.4	39
4	Probing the halogen bond donation ability of multivalent At-center in AtXn (XÂ=ÂCl, Br, I; nÂ=Â1, 3,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.5	8
5	A porous amide-functionalized <i>pto</i>-type MOF exhibiting selective capture and separation of cationic MB dye. Journal of Coordination Chemistry, 2021, 74, 241-251.	2.2	3
6	Identifying Promising Covalent-Organic Frameworks for Decarburization and Desulfurization from Biogas via Computational Screening. ACS Sustainable Chemistry and Engineering, 2021, 9, 8858-8867.	6.7	10
7	Encapsulating Cobalt into N-Doping Hollow Frameworks for Efficient Cascade Catalysis. Inorganic Chemistry, 2021, 60, 9757-9761.	4.0	10
8	Honeycomb-like 2D metal-organic polyhedral framework exhibiting selectively adsorption of CO2. Journal of Solid State Chemistry, 2021, 300, 122230.	2.9	5
9	Cu Nanoclusters Anchored on the Metalâ€"Organic Framework for the Hydrolysis of Ammonia Borane and the Reduction of Quinolines. Inorganic Chemistry, 2021, 60, 12906-12911.	4.0	18
10	Nano-Ni-MOFs: High Active Catalysts on the Cascade Hydrogenation of Quinolines. Catalysis Letters, 2021, 151, 2445-2451.	2.6	8
11	Design of Binary Cuâ€"Fe Sites Coordinated with Nitrogen Dispersed in the Porous Carbon for Synergistic CO₂ Electroreduction. Small, 2021, 17, e2006951.	10.0	63
12	Highly Efficient and Chemoselective Hydrogenation of Nitro Compounds into Amines by Nitrogen-Doped Porous Carbon-Supported Co/Ni Bimetallic Nanoparticles. Inorganic Chemistry, 2021, 60, 16834-16839.	4.0	10
13	Co Nanoparticles Encapsulated in Nitrogen Doped Carbon Tubes for Efficient Hydrogenation of Quinoline under Mild Conditions. ChemCatChem, 2020, 12, 129-134.	3.7	22
14	Probing Auâ‹¯O and Auâ‹¯P regium bonding interaction in AuX (XÂ=ÂF, Cl, Br)â‹¯RPHOH (RÂ=ÂCH3, F, CF3, NH2, CN) complexes. Computational and Theoretical Chemistry, 2020, 1179, 112800.	2.5	7
15	Optimized nanospace of coordination isomers with selenium sites for acetylene separation. Inorganic Chemistry Frontiers, 2020, 7, 3195-3203.	6.0	12
16	Molecular Sieving of C₂H₄ from C₂H₂ by a Supramolecular Porous Material. Energy & Fuels, 2020, 34, 11315-11321.	5.1	10
17	Highly efficient CO₂ capture and conversion of a microporous acylamide functionalized <i>rht</i>-type metalâ€"organic framework. Inorganic Chemistry Frontiers, 2020, 7, 1939-1948.	6.0	24
18	Fe Single Atoms and Fe₂O₃ Clusters Liberated from N-Doped Polyhedral Carbon for Chemoselective Hydrogenation under Mild Conditions. ACS Applied Materials & Interfaces, 2020, 12, 34122-34129.	8.0	47

#	Article	IF	Citations
19	Cooperativity effects between regium-bonding and pnicogen-bonding interactions in ternary MFÂ·Â·Â·PH3OÂ·Â·Â·MF (Mâ€‰=â€‰Cu, Ag, Au): an ab initio study. Molecular Physics, 2020, 118, .	1.7	7
20	Temperature-induced structural transformations accompanied by changes in magnetic properties of two copper coordination polymers. CrystEngComm, 2020, 22, 3482-3488.	2.6	17
21	Nitrogen-Rich Porous Carbon-Stabilized Niâ€“Co Nanoparticles for the Hydrogenation of Quinolines. ACS Applied Nano Materials, 2019, 2, 6763-6768.	5.0	27
22	Regium bonds formed by MX (Mâ•Cu, Ag, Au; Xâ•F, Cl, Br) with phosphine-oxide/phosphinous acid: comparisons between oxygen-shared and phosphine-shared complexes. Molecular Physics, 2019, 117, 2443-2455.	1.7	23
23	A new type of halogen bond involving multivalent astatine: an <i>ab initio</i> study. Physical Chemistry Chemical Physics, 2019, 21, 15310-15318.	2.8	39
24	High Selectivity of Hydrogenation Reaction over Co_{0.15}@C/PC Catalyst at Room Temperature. Inorganic Chemistry, 2019, 58, 6137-6142.	4.0	24
25	Large-Scale Structural Refinement and Screening of Zirconium Metalâ€“Organic Frameworks for H₂S/CH₄ Separation. ACS Applied Materials & Interfaces, 2019, 11, 46984-46992.	8.0	22
26	Ni@PC as a stabilized catalyst toward the efficient hydrogenation of quinoline at ambient temperature. Catalysis Science and Technology, 2019, 9, 6669-6672.	4.1	15
27	Fe/Fe₂O₃@Nâ€doped Porous Carbon: A Highâ€Performance Catalyst for Selective Hydrogenation of Nitro Compounds. ChemCatChem, 2019, 11, 724-728.	3.7	41
28	Functional Two-Dimensional Coordination Polymer Exhibiting Luminescence Detection of Nitroaromatics. Crystal Growth and Design, 2019, 19, 1172-1182.	3.0	64
29	Halogen bonds and metal bonds involving superalkalies M2OCN/M2NCO (Mâ€‰=â€‰Li, Na) complexes. Structural Chemistry, 2019, 30, 965-977.	2.0	13
30	Highly Selective Carbon Dioxide Capture and Cooperative Catalysis of a Waterâ€Stable Acylamideâ€Functionalized Metalâ€“Organic Framework. European Journal of Inorganic Chemistry, 2018, 2018, 1309-1314.	2.0	30
31	A highly porous acylamide decorated MOF-505 analogue exhibiting high and selective CO₂ gas uptake capability. CrystEngComm, 2018, 20, 1874-1881.	2.6	40
32	Comparison of halide donators based on piÂ·Â·Â·M (Mâ€‰=â€‰Cu, Ag, Au), piÂ·Â·Â·H and piÂ·Â·Â·halogen bonds. Theoretical Chemistry Accounts, 2018, 137, 1.	1.4	9
33	Solvent- and pH-Dependent Formation of Four Zinc Porous Coordination Polymers: Framework Isomerism and Gas Separation. Crystal Growth and Design, 2018, 18, 7674-7682.	3.0	27
34	A theoretical investigation on Cu/Ag/Au bonding in XH2Pâ‹¯MY(X = H, CH3, F, CN, NO2; M = Cu, Ag, Au; Y = F,) Tj ETQq0 0 0 rgBT /Overl	3.0	27
35	Cooperative effects between Fâ€‰â€¦â€‰Ag bonded and Xâ€‰â€¦â€‰Br (Cl) halogen-bonded interaction in BrF(ClF)â€‰â€¦â€‰AgXâ€‰â€¦â€‰BrF(ClF) (Xâ€‰=â€‰F, Cl, Br) complexes: a theoretical study. Molecular Physics, 2018, 116, 1834-1843.	1.7	16
36	An unprecedented water stable acylamide-functionalized metalâ€“organic framework for highly efficient CH₄/CO₂ gas storage/separation and acidâ€“base cooperative catalytic activity. Inorganic Chemistry Frontiers, 2018, 5, 2355-2363.	6.0	62

#	Article	IF	Citations
37	A highly porous rht-type acylamide-functionalized metalâ€“organic framework exhibiting large CO₂ uptake capabilities. Chemical Communications, 2016, 52, 12988-12991.	4.1	44
38	Formation of a metalâ€“organic framework with high gas uptakes based upon amino-decorated polyhedral cages. RSC Advances, 2015, 5, 2374-2377.	3.6	20
39	Enhanced water stability of a microporous acylamide-functionalized metalâ€“organic framework via interpenetration and methyl decoration. CrystEngComm, 2014, 16, 9586-9589.	2.6	35
40	Highly selective carbon dioxide uptake by a microporous kgm-pillared metalâ€“organic framework with acylamide groups. CrystEngComm, 2014, 16, 5520.	2.6	21
41	High-Capacity Gas Storage by a Microporous Oxalamide-Functionalized NbO-Type Metalâ€“Organic Framework. Crystal Growth and Design, 2013, 13, 5001-5006.	3.0	71
42	A highly porous agw-type metalâ€“organic framework and its CO2 and H2 adsorption capacity. CrystEngComm, 2013, 15, 9348.	2.6	32
43	A highly porous 4,4-paddlewheel-connected NbO-type metalâ€“organic framework with a large gas-uptake capacity. Dalton Transactions, 2013, 42, 11304.	3.3	34
44	Expanded Porous MOF-505 Analogue Exhibiting Large Hydrogen Storage Capacity and Selective Carbon Dioxide Adsorption. Inorganic Chemistry, 2013, 52, 2823-2829.	4.0	91
45	Porous NbO-type metalâ€“organic framework with inserted acylamide groups exhibiting highly selective CO2 capture. CrystEngComm, 2013, 15, 3517.	2.6	99
46	NMR and theoretical study on the coordination interactions between peroxovanadium(V) complex and bisubstituted pyridine ligands. Journal of Coordination Chemistry, 2013, 66, 2558-2566.	2.2	4
47	A study on the interaction between 3â€spiroâ€piperidones and bovine serum albumin using spectroscopic approaches. Luminescence, 2013, 28, 705-712.	2.9	2
48	High and selective CO2 capture by two mesoporous acylamide-functionalized rht-type metalâ€“organic frameworks. Chemical Communications, 2012, 48, 7025.	4.1	174
49	Highly selective CO2 capture of an agw-type metalâ€“organic framework with inserted amides: experimental and theoretical studies. Chemical Communications, 2012, 48, 3058.	4.1	166
50	Water Stable Metalâ€“Organic Framework Evolutionally Formed from a Flexible Multidentate Ligand with Acylamide Groups for Selective CO₂ Adsorption. Crystal Growth and Design, 2012, 12, 1081-1084.	3.0	67
51	Enhanced CO₂ Binding Affinity of a High-Uptake <i>rht</i>-Type Metalâ^’Organic Framework Decorated with Acylamide Groups. Journal of the American Chemical Society, 2011, 133, 748-751.	13.7	722
52	Controlling the shifting degree of interpenetrated metalâ€“organic frameworks by modulator and temperature and their hydrogen adsorption properties. Chemical Communications, 2011, 47, 2556.	4.1	56
53	Metal-dependent dimensionality in coordination polymers of a semi-rigid dicarboxylate ligand with additional amide groups: Syntheses, structures and luminescent properties. Inorganica Chimica Acta, 2010, 363, 3172-3177.	2.4	31
54	A Podâ€like Coreâ€Shell Catalyst with High Reduction Performance Under Mild Conditions. European Journal of Inorganic Chemistry, 0, , e202100996.	2.0	1