Hoi Ri Moon

List of Publications by Year
in descending order

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74 papers	5,346 citations	126907 33 h-index	82547 72 g-index
77 all docs	77 docs citations	77 times ranked	7583 citing authors

#	Article	IF	Citations
1	Air-stable magnesium nanocomposites provide rapid and high-capacity hydrogen storage without using heavy-metal catalysts. Nature Materials, 2011, 10, 286-290.	27.5	600
2	Fabrication of metal nanoparticles in metalâ€“organic frameworks. Chemical Society Reviews, 2013, 42, 1807-1824.	38.1	596
3	Microfluidic Approach toward Continuous and Ultrafast Synthesis of Metalâ€“Organic Framework Crystals and Hetero Structures in Confined Microdroplets. Journal of the American Chemical Society, 2013, 135, 14619-14626.	13.7	294
4	Redox-Active Porous Metal-Organic Framework Producing Silver Nanoparticles from AgI Ions at Room Temperature. Angewandte Chemie - International Edition, 2005, 44, 1261-1265.	13.8	272
5	A Redox-Active Two-Dimensional Coordination Polymer:Â Preparation of Silver and Gold Nanoparticles and Crystal Dynamics on Guest Removal. Journal of the American Chemical Society, 2006, 128, 4710-4718.	13.7	254
6	Nanoporous Metal Oxides with Tunable and Nanocrystalline Frameworks via Conversion of Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2013, 135, 8940-8946.	13.7	243
7	Luminescent Li-Based Metalâ€“Organic Framework Tailored for the Selective Detection of Explosive Nitroaromatic Compounds: Direct Observation of Interaction Sites. Inorganic Chemistry, 2013, 52, 589-595.	4.0	200
8	Post-Synthetic Modifications of Framework Metal Ions in Isostructural Metalâ€“Organic Frameworks: Coreâ€“Shell Heterostructures via Selective Transmetalations. Chemistry of Materials, 2012, 24, 3065-3073.	6.7	192
9	Transformation of Metalâ€“Organic Frameworks/Coordination Polymers into Functional Nanostructured Materials: Experimental Approaches Based on Mechanistic Insights. Accounts of Chemical Research, 2017, 50, 2684-2692.	15.6	184
10	Elucidation of flexible metal-organic frameworks: Research progresses and recent developments. Coordination Chemistry Reviews, 2019, 389, 161-188.	18.8	163
11	Porous Metalâ^'Organic Framework with Coordinatively Unsaturated MnIISites:Sorption Properties for Various Gases. Inorganic Chemistry, 2006, 45, 8672-8676.	4.0	147
12	Exploiting Diffusion Barrier and Chemical Affinity of Metalâ€“Organic Frameworks for Efficient Hydrogen Isotope Separation. Journal of the American Chemical Society, 2017, 139, 15135-15141.	13.7	125
13	Selective Hydrogen Isotope Separation via Breathing Transition in MIL-53(Al). Journal of the American Chemical Society, 2017, 139, 17743-17746.	13.7	111
14	Hydrogen Isotope Separation in Confined Nanospaces: Carbons, Zeolites, Metalâ€“Organic Frameworks, and Covalent Organic Frameworks. Advanced Materials, 2019, 31, e1805293.	21.0	98
15	A transformative route to nanoporous manganese oxides of controlled oxidation states with identical textural properties. Journal of Materials Chemistry A, 2014, 2, 10435-10443.	10.3	93
16	4,4â€²-Biphenyldicarboxylate sodium coordination compounds as anodes for Na-ion batteries. Journal of Materials Chemistry A, 2014, 2, 14986-14993.	10.3	88
17	<scp>MOFâ€onâ€MOF</scp> Architectures: Applications in Separation, Catalysis, and Sensing. Bulletin of the Korean Chemical Society, 2021, 42, 956-969.	1.9	85
18	Exploration of Gate-Opening and Breathing Phenomena in a Tailored Flexible Metalâ€“Organic Framework. Inorganic Chemistry, 2016, 55, 1920-1925.	4.0	81

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19	Pore engineering of metal-organic frameworks with coordinating functionalities. Coordination Chemistry Reviews, 2020, 420, 213377.	18.8	75
20	Computer-aided discovery of connected metal-organic frameworks. Nature Communications, 2019, 10, 3620.	12.8	71
21	High performance H2O2 production achieved by sulfur-doped carbon on CdS photocatalyst via inhibiting reverse H2O2 decomposition. Applied Catalysis B: Environmental, 2021, 284, 119690.	20.2	69
22	Preparation of Co₃O₄ electrode materials with different microstructures via pseudomorphic conversion of Co-based metalâ€“organic frameworks. Journal of Materials Chemistry A, 2014, 2, 14393-14400.	10.3	62
23	Alterations to secondary building units of metalâ€“organic frameworks for the development of new functions. Inorganic Chemistry Frontiers, 2020, 7, 12-27.	6.0	60
24	Sizeâ€Controlled Synthesis and Optical Properties of Monodisperse Colloidal Magnesium Oxide Nanocrystals. Angewandte Chemie - International Edition, 2009, 48, 6278-6281.	13.8	54
25	Simple coordination complex-derived three-dimensional mesoporous graphene as an efficient bifunctional oxygen electrocatalyst. Chemical Communications, 2015, 51, 6773-6776.	4.1	48
26	Effect of sulphur vacancy on geometric and electronic structure of MoS2 induced by molecular hydrogen treatment at room temperature. RSC Advances, 2013, 3, 18424.	3.6	47
27	Specific Isotope-Responsive Breathing Transition in Flexible Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 13278-13282.	13.7	47
28	Direct conversion of coordination compounds into Ni₂P nanoparticles entrapped in 3D mesoporous graphene for an efficient hydrogen evolution reaction. Materials Chemistry Frontiers, 2017, 1, 973-978.	5.9	41
29	Facile Synthesis and Characterization of Nanostructured Transition Metal/Ceria Solid Solutions (TM_xCe_{1â€“x}O_{2â^'Î´}, TM = Mn, Ni, Co, or Fe) for CO Oxidation. Chemistry of Materials, 2017, 29, 2874-2882.	6.7	40
30	Mix-and-Match Assembly of Block Copolymer Blends in Solution. Macromolecules, 2017, 50, 3234-3243.	4.8	39
31	Thermal conversion of a tailored metalâ€“organic framework into lithium silicate with an unusual morphology for efficient CO₂ capture. Dalton Transactions, 2015, 44, 15130-15134.	3.3	38
32	Surfaceâ€Deactivated Coreâ€“Shell Metalâ€“Organic Framework by Simple Ligand Exchange for Enhanced Size Discrimination in Aerobic Oxidation of Alcohols. Chemistry - A European Journal, 2020, 26, 7568-7572.	3.3	34
33	Coordination Polymer Open Frameworks Constructed of Macrocyclic Complexes. Advances in Inorganic Chemistry, 2006, , 39-79.	1.0	33
34	Investigation on the existence of optimum interlayer distance for H2 uptake using pillared-graphene oxide. International Journal of Hydrogen Energy, 2012, 37, 14217-14222.	7.1	32
35	Three-dimensional pillared metallomacrocycleâ€“graphene frameworks with tunable micro- and mesoporosity. Journal of Materials Chemistry A, 2013, 1, 8432.	10.3	32
36	Upcycling of nonporous coordination polymers: controllable-conversion toward porosity-tuned N-doped carbons and their electrocatalytic activity in seawater batteries. Journal of Materials Chemistry A, 2016, 4, 13468-13475.	10.3	29

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37	Three-dimensional iron(<scp>ii</scp>) porous coordination polymer exhibiting carbon dioxide-dependent spin crossover. Chemical Communications, 2018, 54, 4262-4265.	4.1	29
38	Hierarchically porous adamantane-shaped carbon nanoframes. Journal of Materials Chemistry A, 2018, 6, 18906-18911.	10.3	29
39	Versatile Processing of Metalâ€“Organic Frameworkâ€“Fluoropolymer Composite Inks with Chemical Resistance and Sensor Applications. ACS Applied Materials & Interfaces, 2019, 11, 4385-4392.	8.0	29
40	Flexible and Redox-Active Coordination Polymer: Control of the Network Structure by Pendant Arms of a Macrocyclic Complex. European Journal of Inorganic Chemistry, 2010, 2010, 3795-3803.	2.0	28
41	Zn-MOFs containing flexible Î±,Ï‰-alkane (or alkene)-dicarboxylates with 1,2-bis(4-pyridyl)ethylene: comparison with Zn-MOFs containing 1,2-bis(4-pyridyl)ethane ligands. CrystEngComm, 2017, 19, 99-109.	2.6	28
42	Synthesis of MOF-on-MOF architectures in the context of interfacial lattice matching. CrystEngComm, 2021, 23, 2337-2354.	2.6	27
43	General Recyclable Redox-Metallothermic Reaction Route to Hierarchically Porous Carbon/Metal Composites. Chemistry of Materials, 2016, 28, 4403-4408.	6.7	25
44	Structural evolution of ZIF-67-derived catalysts for furfural hydrogenation. Journal of Catalysis, 2020, 392, 302-312.	6.2	25
45	Hydrogen separation and purification with MOF-based materials. Materials Chemistry Frontiers, 2021, 5, 4022-4041.	5.9	23
46	Metalâ€“organic frameworks constructed from flexible ditopic ligands: conformational diversity of an aliphatic ligand. New Journal of Chemistry, 2013, 37, 4130.	2.8	22
47	Crystal-Size Effects on Carbon Dioxide Capture of a Covalently Alkylamine-Tethered Metal-Organic Framework Constructed by a One-Step Self-Assembly. Scientific Reports, 2016, 6, 19337.	3.3	21
48	Multi-core MgO NPs@C coreâ€“shell nanospheres for selective CO₂ capture under mild conditions. New Journal of Chemistry, 2014, 38, 1606-1610.	2.8	20
49	Solvent-induced single-crystal to single-crystal transformation of a Zn₄O-containing doubly interpenetrated metalâ€“organic framework with a pcu net. CrystEngComm, 2015, 17, 8807-8811.	2.6	20
50	Effects of porous carbon additives on the CO2 absorption performance of lithium orthosilicate. Thermochimica Acta, 2016, 637, 31-37.	2.7	20
51	Porous and Nonporous Coordination Polymers Induced by Pseudohalide Ions for Luminescence and Gas Sorption. Inorganic Chemistry, 2020, 59, 15987-15999.	4.0	18
52	Topology Conversions of Non-Interpenetrated Metalâ€“Organic Frameworks to Doubly Interpenetrated Metalâ€“Organic Frameworks. Chemistry of Materials, 2017, 29, 3899-3907.	6.7	17
53	Coordinated Molecule-Modulated Magnetic Phase with Metamagnetism in Metalâ€“Organic Frameworks. Inorganic Chemistry, 2019, 58, 8895-8899.	4.0	17
54	Structural diversity of metalâ€“organic frameworks via employment of azamacrocycles as a building block. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2018, 92, 237-249.	1.6	16

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55	Tuning of the flexibility in metalâ€“organic frameworks based on pendant arm macrocycles. Chemical Communications, 2019, 55, 8832-8835.	4.1	16
56	Elucidation of Diffusivity of Hydrogen Isotopes in Flexible MOFs by Quasiâ€Elastic Neutron Scattering. Advanced Materials, 2021, 33, e2007412.	21.0	16
57	Isotope Separation: Hydrogen Isotope Separation in Confined Nanospaces: Carbons, Zeolites, Metalâ€“Organic Frameworks, and Covalent Organic Frameworks (Adv. Mater. 20/2019). Advanced Materials, 2019, 31, 1970147.	21.0	15
58	Thermodynamic Separation of Hydrogen Isotopes Using Hofmann-Type Metalâ€“Organic Frameworks with High-Density Open Metal Sites. ACS Applied Materials & Interfaces, 2022, 14, 30946-30951.	8.0	15
59	A Stairâ€Shaped Molecular Silver(0) Chain. Angewandte Chemie - International Edition, 2008, 47, 8390-8393.	13.8	14
60	Interface-Sensitized Chemiresistor: Integrated Conductive and Porous Metal-Organic Frameworks. Chemical Engineering Journal, 2022, 449, 137780.	12.7	14
61	Single-crystal-to-single-crystal transformation of a coordination polymer from 2D to 3D by [2 + 2] photodimerization assisted by a coexisting flexible ligand. CrystEngComm, 2017, 19, 3719-3722.	2.6	13
62	Dual-fixations of europium cations and TEMPO species on metalâ€“organic frameworks for the aerobic oxidation of alcohols. Dalton Transactions, 2020, 49, 8060-8066.	3.3	12
63	Mechanochemistry as a Reconstruction Tool of Decomposed Metalâ€“Organic Frameworks. Inorganic Chemistry, 2021, 60, 11825-11829.	4.0	11
64	Guest-driven structural flexibility of 2D coordination polymers: Synthesis, structural characterizations, and gas sorption properties. Inorganic Chemistry Communication, 2013, 33, 52-56.	3.9	10
65	Self-assembly of hybrid solids consisting of 2D supramolecular networks and intercalated metal complexes. Comptes Rendus Chimie, 2005, 8, 1543-1551.	0.5	8
66	Non-stackable molecules assemble into porous crystals displaying concerted cavity-changing motions. Chemical Science, 2021, 12, 6378-6384.	7.4	7
67	Tetrazoleâ€Based Energetic Metalâ€Organic Frameworks: Impacts of Metals and Ligands on Explosive Properties. European Journal of Inorganic Chemistry, 2022, 2022, .	2.0	7
68	Modelling of adsorption and intercalation of hydrogen on/into tungsten disulphide multilayers and multiwall nanotubes. Physical Chemistry Chemical Physics, 2018, 20, 12061-12074.	2.8	6
69	Nanocomposite synthesis strategies based on the transformation of well-tailored metalâ€“organic frameworks. Chemical Communications, 2021, 57, 6960-6974.	4.1	5
70	Modulating Energetic Characteristics of Multicomponent 1D Coordination Polymers: Interplay of Metalâ€“Ligand Coordination Modes. Inorganic Chemistry, 2022, 61, 1881-1887.	4.0	5
71	Post-synthetic ligand cyclization in metalâ€“organic frameworks through functional group connection with regioisomerism. Chemical Communications, 2022, 58, 5948-5951.	4.1	5
72	Solid-state phase transformations toward a metal-organic framework of 7-connected Zn4O secondary building units. Nano Research, 2021, 14, 411-416.	10.4	4

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73	Metalâ€“Organic Frameworks: Special Collection 2020. Chemistry - A European Journal, 2022, 28, e202200607.	3.3	0
74	Dynamic Variation of Responsive Metal-Organic Frameworks toward Specific Stimuli. Bulletin of Japan Society of Coordination Chemistry, 2022, 79, 50-57.	0.2	0