Dae-Woon Lim

List of Publications by Year
in descending order

31 papers	5,661 citations	331538 21 h-index	454834 30 g-index
40 all docs	40 docs citations	40 times ranked	6866 citing authors

#	Article	IF	Citations
1	Hydrogen Storage in Metalâ€“Organic Frameworks. Chemical Reviews, 2012, 112, 782-835.	23.0	3,283
2	Fabrication of metal nanoparticles in metalâ€“organic frameworks. Chemical Society Reviews, 2013, 42, 1807-1824.	18.7	596
3	Proton Transport in Metalâ€“Organic Frameworks. Chemical Reviews, 2020, 120, 8416-8467.	23.0	382
4	Proton transfer in hydrogen-bonded degenerate systems of water and ammonia in metalâ€“organic frameworks. Chemical Science, 2019, 10, 16-33.	3.7	224
5	Rational strategies for proton-conductive metalâ€“organic frameworks. Chemical Society Reviews, 2021, 50, 6349-6368.	18.7	174
6	A Highly Porous Metalâ€“Organic Framework: Structural Transformations of a Guestâ€Free MOF Depending on Activation Method and Temperature. Chemistry - A European Journal, 2011, 17, 7251-7260.	1.7	145
7	Magnesium Nanocrystals Embedded in a Metalâ€“Organic Framework: Hybrid Hydrogen Storage with Synergistic Effect on Physiâ€•and Chemisorption. Angewandte Chemie - International Edition, 2012, 51, 9814-9817.	7.2	141
8	Hydrogen Storage in a Potassiumâ€Ionâ€Bound Metalâ€“Organic Framework Incorporating Crown Ether Struts as Specific Cation Binding Sites. Angewandte Chemie - International Edition, 2014, 53, 7819-7822.	7.2	91
9	Superionic Conduction over a Wide Temperature Range in a Metalâ€“Organic Framework Impregnated with Ionic Liquids. Angewandte Chemie - International Edition, 2019, 58, 10909-10913.	7.2	76
10	Superprotonic Conductivity in Metalâ€“Organic Framework via Solvent-Free Coordinative Urea Insertion. Journal of the American Chemical Society, 2020, 142, 6861-6865.	6.6	65
11	Characterization of Proton Dynamics for the Understanding of Conduction Mechanism in Proton Conductive Metalâ€Organic Frameworks. Chemical Record, 2020, 20, 1297-1313.	2.9	53
12	MOP Ã— MOF: Collaborative Combination of Metalâ€“Organic Polyhedra and Metalâ€“Organic Framework for Proton Conductivity. ACS Applied Materials & Interfaces, 2019, 11, 12639-12646.	4.0	45
13	A 2D Mg(II)-MOF with High Density of Coordinated Waters as Sole Intrinsic Proton Sources for Ultrahigh Superprotonic Conduction. , 2020, 2, 1343-1350.		37
14	Formation of Frustrated Lewis Pairs in Pt_{<i>x</i>}â€Loaded Zeoliteâ€…NaY. Angewandte Chemie - International Edition, 2015, 54, 13080-13084.	7.2	32
15	Functionality in metalâ€“organic framework minerals: proton conductivity, stability and potential for polymorphism. Chemical Science, 2019, 10, 4923-4929.	3.7	32
16	Void Space versus Surface Functionalization for Proton Conduction in Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2021, 60, 20173-20177.	7.2	32
17	Anhydrous Superprotonic Conductivity of a Uranyl-Based MOF from Ambient Temperature to 110 Â°C. , 2021, 3, 744-751.		27
18	A Phosphateâ€Based Silverâ€“Bipyridine 1D Coordination Polymer with Crystallized Phosphoric Acid as Superprotonic Conductor. Chemistry - A European Journal, 2020, 26, 4607-4612.	1.7	24

#	ARTICLE	IF	CITATIONS
19	Hydrogen separation and purification with MOF-based materials. Materials Chemistry Frontiers, 2021, 5, 4022-4041.	3.2	23
20	Modeling adsorption properties of structurally deformed metalâ€"organic frameworks using structureâ€"property map. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7923-7928.	3.3	22
21	An unprecedented single platform via cross-linking of zeolite and MOFs. Chemical Communications, 2016, 52, 6773-6776.	2.2	21
22	Holding Open Micropores with Water: Hydrogen-Bonded Networks Supported by Hexaaquachromium(III) Cations. CheM, 2018, 4, 868-878.	5.8	16
23	Discovery of Zr-based metal-organic polygon: Unveiling new design opportunities in reticular chemistry. Nano Research, 2021, 14, 392-397.	5.8	9
24	Superionic Conduction over a Wide Temperature Range in a Metalâ€"Organic Framework Impregnated with Ionic Liquids. Angewandte Chemie, 2019, 131, 11025-11029.	1.6	7
25	Ultrafast fabrication of thermally stable protein-coated silver iodide nanoparticles for solid-state superionic conductors. Colloids and Surfaces B: Biointerfaces, 2019, 176, 47-54.	2.5	5
26	Void Space versus Surface Functionalization for Proton Conduction in Metalâ€"Organic Frameworks. Angewandte Chemie, 2021, 133, 20335-20339.	1.6	2
27	Reversible resistance switching by excess hydrogen doping in rutile TiO₂. Applied Physics Express, 2020, 13, 105502.	1.1	2
28	Reversible ammonia uptake at room temperature in a robust and tunable metalâ€"organic framework. RSC Advances, 2022, 12, 7605-7611.	1.7	2
29	InnenrÃ¼cktitelbild: Magnesium Nanocrystals Embedded in a Metal-Organic Framework: Hybrid Hydrogen Storage with Synergistic Effect on Physi- and Chemisorption (Angew. Chem. 39/2012). Angewandte Chemie, 2012, 124, 10081-10081.	1.6	0
30	Innentitelbild: Void Space versus Surface Functionalization for Proton Conduction in Metalâ€"Organic Frameworks (Angew. Chem. 37/2021). Angewandte Chemie, 2021, 133, 20226-20226.	1.6	0
31	Ammonia for Proton Conducting Medium in Metal-Organic Frameowkrs. ECS Meeting Abstracts, 2018, , .	0.0	0