Moonhyun Oh

List of Publications by Year
in descending order

60 papers	5,142 citations	101496 36 h-index	110317 64 g-index
67 all docs	67 docs citations	67 times ranked	5704 citing authors

#	Article	IF	Citations
1	Chemically tailorable colloidal particles from infinite coordination polymers. Nature, 2005, 438, 651-654.	13.7	610
2	Growth-Controlled Formation of Porous Coordination Polymer Particles. Journal of the American Chemical Society, 2008, 130, 16943-16946.	6.6	296
3	Advanced fabrication of metalâ€“organic frameworks: template-directed formation of polystyrene@ZIF-8 coreâ€“shell and hollow ZIF-8 microspheres. Chemical Communications, 2012, 48, 221-223.	2.2	252
4	Supramolecular Metalâˆ'Organometallic Coordination Networks Based on Quinonoid Ï€-Complexes. Accounts of Chemical Research, 2004, 37, 1-11.	7.6	230
5	Cobalt- and nitrogen-codoped porous carbon catalyst made from coreâ€“shell type hybrid metalâ€“organic framework (ZIF-L@ZIF-67) and its efficient oxygen reduction reaction (ORR) activity. Applied Catalysis B: Environmental, 2019, 246, 322-329.	10.8	227
6	Selfâ€Templateâ€Directed Formation of Coordinationâ€Polymer Hexagonal Tubes and Rings, and their Calcination to ZnO Rings. Angewandte Chemie - International Edition, 2009, 48, 1459-1462.	7.2	214
7	Coordination polymer nanorods of Fe-MIL-88B and their utilization for selective preparation of hematite and magnetite nanorods. Chemical Communications, 2011, 47, 4138.	2.2	201
8	Ion Exchange as a Way of Controlling the Chemical Compositions of Nano- and Microparticles Made from Infinite Coordination Polymers. Angewandte Chemie - International Edition, 2006, 45, 5492-5494.	7.2	193
9	Monitoring Shape Transformation from Nanowires to Nanocubes and Sizeâ€Controlled Formation of Coordination Polymer Particles. Angewandte Chemie - International Edition, 2008, 47, 2049-2051.	7.2	190
10	Isotropic and Anisotropic Growth of Metalâ€“Organic Framework (MOF) on MOF: Logical Inference on MOF Structure Based on Growth Behavior and Morphological Feature. Journal of the American Chemical Society, 2016, 138, 14434-14440.	6.6	178
11	Multi Ballâ€Inâ€Ball Hybrid Metal Oxides. Advanced Materials, 2011, 23, 1720-1723.	11.1	146
12	Dual Changes in Conformation and Optical Properties of Fluorophores within a Metalâ€“Organic Framework during Framework Construction and Associated Sensing Event. Journal of the American Chemical Society, 2014, 136, 12201-12204.	6.6	146
13	One-pot synthesis of magnetic particle-embedded porous carbon composites from metalâ€“organic frameworks and their sorption properties. Chemical Communications, 2014, 50, 5476.	2.2	124
14	Construction of flexible metalâ€“organic framework (MOF) papers through MOF growth on filter paper and their selective dye capture. Nanoscale, 2017, 9, 12850-12854.	2.8	118
15	Atypical Hybrid Metalâ€“Organic Frameworks (MOFs): A Combinative Process for MOFâ€onâ€MOF Growth, Etching, and Structure Transformation. Angewandte Chemie - International Edition, 2020, 59, 1327-1333.	7.2	118
16	Morphologyâ€Selective Formation and Morphologyâ€Dependent Gasâ€Adsorption Properties of Coordination Polymer Particles. Advanced Materials, 2009, 21, 674-677.	11.1	114
17	Synthesis of Bimetallic Conductive 2D Metalâ€“Organic Framework (Co<i>_x</i>Ni<i>_y</i>â€CAT) and Its Mass Production: Enhanced Electrochemical Oxygen Reduction Activity. Small, 2019, 15, e1805232.	5.2	100
18	Tip-To-Middle Anisotropic MOF-On-MOF Growth with a Structural Adjustment. Journal of the American Chemical Society, 2020, 142, 3042-3049.	6.6	96

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19	Systematic transformation of coordination polymer particles to hollow and non-hollow In2O3 with pre-defined morphology. Chemical Communications, 2009, , 4756.	2.2	94
20	Controlled Isotropic or Anisotropic Nanoscale Growth of Coordination Polymers: Formation of Hybrid Coordination Polymer Particles. ACS Nano, 2013, 7, 491-499.	7.3	94
21	Well-dispersed hollow porous carbon spheres synthesized by direct pyrolysis of coreâ€"shell type metalâ€"organic frameworks and their sorption properties. Chemical Communications, 2014, 50, 4492.	2.2	86
22	Coordination Polymers from Silver(I) and Bifunctional Pyridyl Ligands. Inorganic Chemistry, 2005, 44, 2647-2653.	1.9	81
23	Oneâ€Pot Synthesis of Silica@Coordination Polymer Coreâ€"Shell Microspheres with Controlled Shell Thickness. Advanced Materials, 2011, 23, 1716-1719.	11.1	76
24	Facile Synthetic Route for Thickness and Composition Tunable Hollow Metal Oxide Spheres from Silicaâ€Templated Coordination Polymers. Advanced Materials, 2011, 23, 3161-3164.	11.1	72
25	Wellâ€Arranged and Confined Incorporation of PdCo Nanoparticles within a Hollow and Porous Metalâ€"Organic Framework for Superior Catalytic Activity. Angewandte Chemie - International Edition, 2019, 58, 866-871.	7.2	69
26	Morphological and Structural Evolutions of Metalâ€"Organic Framework Particles from Amorphous Spheres to Crystalline Hexagonal Rods. Angewandte Chemie - International Edition, 2015, 54, 10564-10568.	7.2	65
27	Unbalanced MOF-on-MOF growth for the production of a lopsided coreâ€"shell of MIL-88B@MIL-88A with mismatched cell parameters. Chemical Communications, 2019, 55, 43-46.	2.2	57
28	Hollow Metalâ€"Organic Framework Microparticles Assembled via a Self-Templated Formation Mechanism. Crystal Growth and Design, 2015, 15, 5169-5173.	1.4	52
29	Î·5-Semiquinone and Î·4-Quinone Complexes of Manganese Tricarbonyl. Intermolecular Hydrogen Bonding in the Solid State and in Solution. Organometallics, 2002, 21, 1290-1295.	1.1	51
30	Toward the Rational Design of Supramolecular Coordination Polymers. The Effect of Solvent and Substituent Changes on the Structure of Self-Assembled Metal-Organometallic Networks. Organometallics, 2003, 22, 2364-2366.	1.1	48
31	Improvement in Crystallinity and Porosity of Poorly Crystalline Metalâ€"Organic Frameworks (MOFs) through Their Induced Growth on a Well-Crystalline MOF Template. Inorganic Chemistry, 2018, 57, 9048-9054.	1.9	46
32	Facile Synthesis of Au or Ag Nanoparticles-Embedded Hollow Carbon Microspheres from Metal-Organic Framework Hybrids and Their Efficient Catalytic Activities. Small, 2016, 12, 2425-2431.	5.2	45
33	A Novel 3D Brick-Wall Coordination Network Based on Nodes with Square-Pyramidal Connectivity. Angewandte Chemie - International Edition, 2003, 42, 2026-2028.	7.2	40
34	A coordination network containing metalâ€"organometallic secondary building units based on Ï€-bonded benzoquinone complexes. Chemical Communications, 2002, , 2168-2169.	2.2	39
35	Synthesis of hybrid metalâ€"organic frameworks of {Fe_xM_yMâ€²_{1âˆ'xâˆ'y}}-MIL-88B and the use of anions to control their structural features. Nanoscale, 2016, 8, 16743-16751.	2.8	36
36	Synthesis and Photoluminescence Properties of Eu 3+ â€Doped Silica@Coordination Polymer Coreâ€"Shell Structures and Their Calcinated Silica@Gd 2 O 3 :Eu and Hollow Gd 2 O 3 :Eu Microsphere Products. Small, 2013, 9, 561-569.	5.2	34

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37	Atypical Hybrid Metalâ€"Organic Frameworks (MOFs): A Combinative Process for MOFâ€onâ€MOF Growth, Etching, and Structure Transformation. Angewandte Chemie, 2020, 132, 1343-1349.	1.6	32
38	Self-assembly of fluorescent and magnetic Fe3O4@coordination polymer nanochains. Chemical Communications, 2014, 50, 7617.	2.2	29
39	Highly effective heterogeneous chemosensors of luminescent silica@coordination polymer core-shell micro-structures for metal ion sensing. Scientific Reports, 2014, 4, 6518.	1.6	29
40	The Remote Activation of Chemical Bondsvia Metal Coordination. Advanced Synthesis and Catalysis, 2003, 345, 1053-1060.	2.1	25
41	Wellâ€Arranged and Confined Incorporation of PdCo Nanoparticles within a Hollow and Porous Metalâ€"Organic Framework for Superior Catalytic Activity. Angewandte Chemie, 2019, 131, 876-881.	1.6	23
42	Zeolitic Imidazolate Framework-Based Composite Incorporated with Well-Dispersed CoNi Nanoparticles for Efficient Catalytic Reduction Reaction. ACS Applied Materials & Interfaces, 2020, 12, 18625-18633.	4.0	23
43	The Î·4-o-Benzoquinone Manganese Tricarbonyl Anion (o-QMTC) as an Organometalloligand in the Formation of M(o-QMTC)2(Lâˆ'L) Complexes (M = Mn, Co, Cd; Lâˆ'L = bipy, phen):â€‰ Generation of Neutral 2-D Networks Containing Two Types of Ï€âˆ'Ï€ Stacking. Organometallics, 2003, 22, 1437-1442.	1.1	21
44	Monitoring and analysis of the seed-directed growth of micro-sized hexapod coordination polymers. CrystEngComm, 2010, 12, 1060.	1.3	21
45	Coordination polymers with macrocyclic cages and pockets within their backbones. Chemical Communications, 2004, , 2684.	2.2	19
46	Fluorescent octahedron and rounded-octahedron coordination polymer particles (CPPs). CrystEngComm, 2010, 12, 3959.	1.3	19
47	Lattice-Guided Construction and Harvest of a Naturally Nonpreferred Metalâ€"Organic Framework. ACS Nano, 2021, 15, 17907-17916.	7.3	17
48	Systematic Formation of Multilayered Coreâ€"Shell Microspheres through the Multistep Growth of Coordination Polymers. Chemistry - A European Journal, 2013, 19, 6546-6550.	1.7	15
49	Self-assembly of metal-organometallic coordination networks. Macromolecular Symposia, 2003, 196, 101-112.	0.4	14
50	Coordination Polymer Nanobamboos of {Fe_{<i>x</i>}In_{1âˆ'<i>x</i>}}â€MILâ€88B: Induced Formation of a Virtual Inâ€MILâ€88B. Chemistry - A European Journal, 2014, 20, 5559-5564.	1.7	11
51	Micro-crystals of metalâ€"organic frameworks constructed from pyrene-based organic linkers and lanthanide ions for tunable white light emission. CrystEngComm, 2016, 18, 8372-8376.	1.3	11
52	Porous Composites Embedded With Cu and Co Nanoparticles for Efficient Catalytic Reduction of <scp>4â€Nitrophenol</scp>. Bulletin of the Korean Chemical Society, 2021, 42, 303-308.	1.0	11
53	Competitive formation between 2D and 3D metal-organic frameworks: insights into the selective formation and lamination of a 2D MOF. IUCrJ, 2019, 6, 681-687.	1.0	11
54	Structural and Morphological Transformations of In-MIL-68-Based Hexagonal Lumps to QMOF-2-Based Pointed Hexagonal Rods by Means of Destruction and Reconstruction Processes. European Journal of Inorganic Chemistry, 2014, 2014, 6220-6224.	1.0	10

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55	Selective formation of five coordination polymer particles (CPPs) and their gas sorption properties. CrystEngComm, 2012, 14, 2837.	1.3	7
56	A Novel 3D Brick-Wall Coordination Network Based on Nodes with Square-Pyramidal Connectivity. Angewandte Chemie, 2003, 115, 2072-2074.	1.6	6
57	Organometalloligands as Components in Supramolecular Coordination Networks. , 2005, , 259-283.		2
58	Eu³⁺ Dopants: Synthesis and Photoluminescence Properties of Eu³⁺â€Doped Silica@Coordination Polymer Coreâ€"Shell Structures and Their Calcinated Silica@Gd₂O₃:Eu and Hollow Gd₂O₃:Eu Microsphere Products (Small 4/2013). Small, 2013, 9, 490-490.	5.2	1
59	Rational manufacture of yolkâ€"shell and coreâ€"shell metal oxide double layers from silica-templated coordination polymer double layers. Materials Chemistry Frontiers, 2021, 5, 3404-3412.	3.2	1
60	Inside Cover: Selfâ€Templateâ€Directed Formation of Coordinationâ€Polymer Hexagonal Tubes and Rings, and their Calcination to ZnO Rings (Angew. Chem. Int. Ed. 8/2009). Angewandte Chemie - International Edition, 2009, 48, 1338-1338.	7.2	0