

Myunghyun Paik Suh

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

13,032
citations

48
h-index

88
g-index

88
ext. papers

13,680
ext. citations

8.7
avg, IF

6.84
L-index

#	Paper	IF	Citations
81	Hydrogen storage in metal-organic frameworks. <i>Chemical Reviews</i> , 2012 , 112, 782-835	68.1	2988
80	Terminology of metal-organic frameworks and coordination polymers (IUPAC Recommendations 2013). <i>Pure and Applied Chemistry</i> , 2013 , 85, 1715-1724	2.1	743
79	Fabrication of metal nanoparticles in metal-organic frameworks. <i>Chemical Society Reviews</i> , 2013 , 42, 1807-24	58.5	530
78	Silver(I) Polynitrile Network Solids for Anion Exchange: Anion-Induced Transformation of Supramolecular Structure in the Crystalline State. <i>Journal of the American Chemical Society</i> , 2000 , 122, 6834-6840	16.4	485
77	Multifunctionality and crystal dynamics of a highly stable, porous metal-organic framework [Zn4O(NTB)2]. <i>Journal of the American Chemical Society</i> , 2005 , 127, 6374-81	16.4	474
76	Coordination polymers, metal-organic frameworks and the need for terminology guidelines. <i>CrystEngComm</i> , 2012 , 14, 3001	3.3	392
75	A robust porous material constructed of linear coordination polymer chains: reversible single-crystal to single-crystal transformations upon dehydration and rehydration. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2798-801	16.4	369
74	Syntheses and functions of porous metallosupramolecular networks. <i>Coordination Chemistry Reviews</i> , 2008 , 252, 1007-1026	23.2	364
73	Highly selective CO(2) capture in flexible 3D coordination polymer networks. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6865-9	16.4	349
72	Dynamic and redox active pillared bilayer open framework: single-crystal-to-single-crystal transformations upon guest removal, guest exchange, and framework oxidation. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15844-51	16.4	324
71	Self-Assembly of Molecular Brick Wall and Molecular Honeycomb from Nickel(II) Macrocycle and 1,3,5-Benzenetricarboxylate: Guest-Dependent Host Structures. <i>Journal of the American Chemical Society</i> , 1998 , 120, 10622-10628	16.4	291
70	Enhanced hydrogen storage by palladium nanoparticles fabricated in a redox-active metal-organic framework. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2899-903	16.4	283
69	A comparison of the H2 sorption capacities of isostructural metal-organic frameworks with and without accessible metal sites: [Zn2(abtc)(dmf)2]3 and [Cu2(abtc)(dmf)2]3 versus [Cu2(abtc)]3. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7741-5	16.4	276
68	Redox-active porous metal-organic framework producing silver nanoparticles from AgI ions at room temperature. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 1261-5	16.4	249
67	A metal-organic bilayer open framework with a dynamic component: single-crystal-to-single-crystal transformations. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10976-7	16.4	244
66	A redox-active two-dimensional coordination polymer: preparation of silver and gold nanoparticles and crystal dynamics on guest removal. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4710-8	16.4	237
65	High gas sorption and metal-ion exchange of microporous metal-organic frameworks with incorporated imide groups. <i>Chemistry - A European Journal</i> , 2010 , 16, 14043-50	4.8	224

64	Self-assembly and selective guest binding of three-dimensional open-framework solids from a macrocyclic complex as a trifunctional metal building block. <i>Chemistry - A European Journal</i> , 2001 , 7, 3034-8	4.8	184
63	Self-Assembly of a Molecular Floral Lace with One-Dimensional Channels and Inclusion of Glucose. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 1405-1408	16.4	178
62	Multifunctional fourfold interpenetrating diamondoid network: gas separation and fabrication of palladium nanoparticles. <i>Chemistry - A European Journal</i> , 2008 , 14, 3961-7	4.8	167
61	Selective gas adsorption in a microporous metal-organic framework constructed of CoII4 clusters. <i>Chemical Communications</i> , 2009 , 2296-8	5.8	164
60	Synthesis and properties of nickel(II) and copper(II) complexes of 14-membered hexaaza macrocycles, 1,8-dimethyl- and 1,8-diethyl-1,3,6,8,10,13-hexaazacyclotetradecane. <i>Inorganic Chemistry</i> , 1988 , 27, 2544-2546	5.1	164
59	A hybrid consisting of coordination polymer and noncovalent organic networks: a highly ordered 2-D phenol network assembled by edge-to-face pi-pi interactions. <i>Inorganic Chemistry</i> , 2002 , 41, 2151-7	5.1	148
58	Porous metal-organic framework with coordinatively unsaturated Mn(II) sites: sorption properties for various gases. <i>Inorganic Chemistry</i> , 2006 , 45, 8672-6	5.1	138
57	Stepwise and hysteretic sorption of N(2), O(2), CO(2), and H(2) gases in a porous metal-organic framework [Zn(2)(BPnDC)(2)(bpy)]. <i>Chemical Communications</i> , 2010 , 46, 610-2	5.8	137
56	Copper-Organic Framework Fabricated with CuS Nanoparticles: Synthesis, Electrical Conductivity, and Electrocatalytic Activities for Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15301-15305	16.4	135
55	Post-synthetic reversible incorporation of organic linkers into porous metal-organic frameworks through single-crystal-to-single-crystal transformations and modification of gas-sorption properties. <i>Chemistry - A European Journal</i> , 2010 , 16, 11662-9	4.8	132
54	Control of interpenetration and gas-sorption properties of metal-organic frameworks by a simple change in ligand design. <i>Chemistry - A European Journal</i> , 2012 , 18, 8673-80	4.8	124
53	Enhanced isosteric heat, selectivity, and uptake capacity of CO2 adsorption in a metal-organic framework by impregnated metal ions. <i>Chemical Science</i> , 2013 , 4, 685-690	9.4	123
52	High CO2-capture ability of a porous organic polymer bifunctionalized with carboxy and triazole groups. <i>Chemistry - A European Journal</i> , 2013 , 19, 11590-7	4.8	120
51	A highly porous metal-organic framework: structural transformations of a guest-free MOF depending on activation method and temperature. <i>Chemistry - A European Journal</i> , 2011 , 17, 7251-60	4.8	117
50	Flexible eightfold interpenetrating diamondoid network generating 1D channels: selective binding with organic guests. <i>Inorganic Chemistry</i> , 2005 , 44, 810-2	5.1	115
49	Selective CO2 adsorption in a flexible non-interpenetrated metal-organic framework. <i>Chemical Communications</i> , 2011 , 47, 4258-60	5.8	114
48	Magnesium nanocrystals embedded in a metal-organic framework: hybrid hydrogen storage with synergistic effect on physis- and chemisorption. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9814-7	16.4	113
47	Selective gas adsorption in a magnesium-based metal-organic framework. <i>Chemical Communications</i> , 2009 , 5436-8	5.8	112

46	Mixed-ligand metal-organic frameworks with large pores: gas sorption properties and single-crystal-to-single-crystal transformation on guest exchange. <i>Chemistry - A European Journal</i> , 2008 , 14, 8812-21	4.8	112
45	Enhancing CO ₂ separation ability of a metal-organic framework by post-synthetic ligand exchange with flexible aliphatic carboxylates. <i>Chemistry - A European Journal</i> , 2014 , 20, 426-34	4.8	108
44	A Robust Porous Material Constructed of Linear Coordination Polymer Chains: Reversible Single-Crystal to Single-Crystal Transformations upon Dehydration and Rehydration. <i>Angewandte Chemie</i> , 2004 , 116, 2858-2861	3.6	104
43	Reversible transformation of ZnII coordination geometry in a single crystal of porous metal-organic framework [Zn ₃ (ntb) ₂ (EtOH) ₂] ₄ EtOH. <i>Chemistry - A European Journal</i> , 2007 , 13, 4208-15	4.8	100
42	Synthesis, Crystal Structure, and Properties of a 3-D Network Assembled by Nickel(II) Macrocyclic Complex and Terephthalato Bridge. <i>Inorganic Chemistry</i> , 1999 , 38, 6309-6312	5.1	95
41	Hydrogen storage in a potassium-ion-bound metal-organic framework incorporating crown ether struts as specific cation binding sites. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7819-22	16.4	80
40	Highly efficient carbon dioxide capture with a porous organic polymer impregnated with polyethylenimine. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13245-13249	13	80
39	Template Syntheses and Crystal Structures of Nickel(II) Complexes of Hexaaza Macrocyclic Ligands with Pendant Functional Groups: Formation of a Coordination Polymer. <i>Inorganic Chemistry</i> , 1994 , 33, 5509-5514	5.1	78
38	Recent Advances in the Dynamics of Single Crystal to Single Crystal Transformations in Metal-Organic Open Frameworks. <i>Australian Journal of Chemistry</i> , 2006 , 59, 605	1.2	71
37	Redox-Active Porous Metal-Organic Framework Producing Silver Nanoparticles from AgI Ions at Room Temperature. <i>Angewandte Chemie</i> , 2005 , 117, 1287-1291	3.6	70
36	A new metal-organic open framework consisting of threefold parallel interwoven (6,3) nets. <i>Inorganic Chemistry</i> , 2003 , 42, 676-8	5.1	65
35	Macrocyclic Chemistry of Nickel. <i>Advances in Inorganic Chemistry</i> , 1996 , 44, 93-146	2.1	60
34	Selective CO ₂ adsorption in a metal-organic framework constructed from an organic ligand with flexible joints. <i>Chemical Communications</i> , 2012 , 48, 9168-70	5.8	54
33	Nickel(II) macrocyclic complexes with long alkyl pendant chain: synthesis, x-ray structure, and anion exchange property in the solid state. <i>Inorganic Chemistry</i> , 2003 , 42, 1151-7	5.1	48
32	Flexible metal-organic framework with hydrophobic pores. <i>Chemistry - A European Journal</i> , 2011 , 17, 13653-6	4.8	46
31	Comparison of gas sorption properties of neutral and anionic metal-organic frameworks prepared from the same building blocks but in different solvent systems. <i>Chemistry - A European Journal</i> , 2013 , 19, 17432-8	4.8	43
30	Self-Assembly, Structures, and Magnetic Properties of Ladder-Like Copper(II) Coordination Polymers. <i>Journal of Solid State Chemistry</i> , 2000 , 152, 183-190	3.3	43
29	Copper-Organic Framework Fabricated with CuS Nanoparticles: Synthesis, Electrical Conductivity, and Electrocatalytic Activities for Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2016 , 128, 15527-15531	3.6	41

28	Proteolytic activity of Co(III) complex of 1-oxa-4,7,10-triazacyclododecane: a new catalytic center for peptide-cleavage agents. <i>Journal of Biological Inorganic Chemistry</i> , 2009 , 14, 151-7	3.7	34
27	Magnesium Nanocrystals Embedded in a Metal-Organic Framework: Hybrid Hydrogen Storage with Synergistic Effect on Physi- and Chemisorption. <i>Angewandte Chemie</i> , 2012 , 124, 9952-9955	3.6	30
26	Coordination Polymer Open Frameworks Constructed of Macrocyclic Complexes. <i>Advances in Inorganic Chemistry</i> , 2006 , 39-79	2.1	29
25	Selective Binding of Open Frameworks Assembled from Nickel(II) Macrocyclic Complexes with Organic and Inorganic Guests. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2001 , 41, 155-162		28
24	Flexible and Redox-Active Coordination Polymer: Control of the Network Structure by Pendant Arms of a Macrocyclic Complex. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 3795-3803	2.3	27
23	Selbstassoziation eines molekularen Blumenbandes unter Bildung eindimensionaler Kanäle und Einschluß von Glucose. <i>Angewandte Chemie</i> , 1999 , 111, 1490-1493	3.6	26
22	Synthesis of dinickel(I) and dinickel(II) complexes of bismacrocyclic ligands. <i>Inorganic Chemistry</i> , 1993 , 32, 3562-3564	5.1	25
21	Artificial Trinuclear Metallopeptidase Synthesized by Cross-Linkage of a Molecular Bowl with a Polystyrene Derivative. <i>Journal of the American Chemical Society</i> , 2000 , 122, 7742-7749	16.4	24
20	Enhanced isosteric heat of H ₂ adsorption by inclusion of crown ethers in a porous metal-organic framework. <i>Chemical Communications</i> , 2012 , 48, 3400-2	5.8	23
19	Hydrogen Storage in a Potassium-Ion-Bound Metal-Organic Framework Incorporating Crown Ether Struts as Specific Cation Binding Sites. <i>Angewandte Chemie</i> , 2014 , 126, 7953-7956	3.6	20
18	Modeling adsorption properties of structurally deformed metal-organic frameworks using structure-property map. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7923-7928	11.5	19
17	Epoxidation of an alkene promoted by various nickel(II) multiaza macrocyclic complexes. <i>Journal of Molecular Catalysis A</i> , 2000 , 151, 71-78		19
16	Solvent-induced single-crystal to single-crystal transformation of a Zn ₄ O-containing doubly interpenetrated metal-organic framework with a pcu net. <i>CrystEngComm</i> , 2015 , 17, 8807-8811	3.3	18
15	Template Synthesis, Properties, and Crystal Structure of a Trigonal Bipyramidal Cobalt(II) Octaazamacrocyclic Complex. <i>Inorganic Chemistry</i> , 1997 , 36, 5651-5654	5.1	17
14	Guest-dependent host structures and host-induced guest assemblies. <i>CrystEngComm</i> , 2012 , 14, 2748	3.3	15
13	A stair-shaped molecular silver(0) chain. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8390-3	16.4	13
12	Metal-Organic Frameworks and Porous Coordination Polymers: Properties and Applications. <i>Bulletin of Japan Society of Coordination Chemistry</i> , 2015 , 65, 9-22	0.3	10
11	Syntheses of square-planar nickel(II) and -(I) complexes of an octaaza macrohexacyclic ligand and crystal structure of the nickel(II) complex. <i>Journal of the Chemical Society Dalton Transactions</i> , 1994 , 2765		9

10	Self-assembly of hybrid solids consisting of 2D supramolecular networks and intercalated metal complexes. <i>Comptes Rendus Chimie</i> , 2005 , 8, 1543-1551	2.7	8
9	Properties and crystal structure of a four-co-ordinate nickel(I) complex with the macrotricyclic 1,3,6,8,12,15-hexaazatricyclo[13.3.1.1 8,12]icosane. <i>Journal of the Chemical Society Dalton Transactions</i> , 1995 , 1577		8
8	Transmetallation of nickel(II) ion in a nickel(II) azamacrocyclic complex with gold(III) ion. <i>Inorganica Chimica Acta</i> , 2000 , 308, 150-154	2.7	7
7	Metal-Organic Frameworks Incorporating Various Alkoxy Pendant Groups: Hollow Tubular Morphologies, X-ray Single-Crystal Structures, and Selective Carbon Dioxide Adsorption Properties. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 2257-63	4.5	4
6	Synthesis, X-ray structure, and magnetic properties of interconnected ferromagnetic molecular bowls by hydrogen bonds. <i>Inorganica Chimica Acta</i> , 2003 , 355, 322-327	2.7	4
5	Equilibrium constant for coordinative polymerization of an o,o'-dihydroxyazobenzene derivative with Ni(II) ion in water. <i>Journal of Polymer Science Part A</i> , 1997 , 35, 1825-1830	2.5	3
4	Self-Assembly of a Molecular Floral Lace with One-Dimensional Channels and Inclusion of Glucose 1999 , 38, 1405		3
3	Synthesis of multifunctional metal-organic frameworks and tuning the functionalities with pendant ligands. <i>Dalton Transactions</i> , 2020 , 49, 15034-15040	4.3	1
2	Innenrücktitelbild: Copper-Organic Framework Fabricated with CuS Nanoparticles: Synthesis, Electrical Conductivity, and Electrocatalytic Activities for Oxygen Reduction Reaction (Angew. Chem. 49/2016). <i>Angewandte Chemie</i> , 2016 , 128, 15669-15669	3.6	
1	Innenrücktitelbild: Magnesium Nanocrystals Embedded in a Metal-Organic Framework: Hybrid Hydrogen Storage with Synergistic Effect on Physi- and Chemisorption (Angew. Chem. 39/2012). <i>Angewandte Chemie</i> , 2012 , 124, 10081-10081	3.6	