

Myunghyun Paik Suh

List of Publications by Year in descending order

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78
papers

14,465
citations

38660

50
h-index

58464

82
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88
all docs

88
docs citations

88
times ranked

11564
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen Storage in Metal-Organic Frameworks. <i>Chemical Reviews</i> , 2012, 112, 782-835.	23.0	3,283
2	Terminology of metal-organic frameworks and coordination polymers (IUPAC Recommendations) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	6.9	984
3	Fabrication of metal nanoparticles in metal-organic frameworks. <i>Chemical Society Reviews</i> , 2013, 42, 1807-1824.	18.7	596
4	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.	6.6	517
5	Multifunctionality and Crystal Dynamics of a Highly Stable, Porous Metal-Organic Framework [Zn ₄ O(NTB) ₂]. <i>Journal of the American Chemical Society</i> , 2005, 127, 6374-6381.	6.6	492
6	Coordination polymers, metal-organic frameworks and the need for terminology guidelines. <i>CrystEngComm</i> , 2012, 14, 3001.	1.3	464
7	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, 2798-2801.	7.2	391
8	Syntheses and functions of porous metallosupramolecular networks. <i>Coordination Chemistry Reviews</i> , 2008, 252, 1007-1026.	9.5	381
9	Highly Selective CO ₂ Capture in Flexible 3D Coordination Polymer Networks. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6865-6869.	7.2	364
10	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, 15844-15851.	6.6	342
11	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.	6.6	338
12	Enhanced Hydrogen Storage by Palladium Nanoparticles Fabricated in a Redox-Active Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2899-2903.	7.2	303
13	A Comparison of the H ₂ Sorption Capacities of Isostructural Metal-Organic Frameworks With and Without Accessible Metal Sites: [Zn ₂ (abtc)(dmf) ₂] ₃ and [Cu ₂ (abtc)(dmf) ₂] ₃ versus [Cu ₂ (abtc)] ₃ . <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7741-7745.	7.2	291
14	Redox-Active Porous Metal-Organic Framework Producing Silver Nanoparticles from Ag ⁺ Ions at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1261-1265.	7.2	272
15	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, 10976-10977.	6.6	266
16	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, 4710-4718.	6.6	254
17	High Gas Sorption and Metal-Ion Exchange of Microporous Metal-Organic Frameworks with Incorporated Imide Groups. <i>Chemistry - A European Journal</i> , 2010, 16, 14043-14050.	1.7	244
18	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.	7.2	207

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19	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, 303-313.	1.7	197
20	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.	1.9	184
21	Multifunctional Fourfold Interpenetrating Diamondoid Network: Gas Separation and Fabrication of Palladium Nanoparticles. <i>Chemistry - A European Journal</i> , 2008, 14, 3961-3967.	1.7	176
22	Selective gas adsorption in a microporous metal-organic framework constructed of $CoL4$ clusters. <i>Chemical Communications</i> , 2009, , 2296.	2.2	172
23	A Hybrid Consisting of Coordination Polymer and Noncovalent Organic Networks: A Highly Ordered 2-D Phenol Network Assembled by Edge-to-Face π - π Interactions. <i>Inorganic Chemistry</i> , 2002, 41, 2151-2157.	1.9	159
24	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.	7.2	157
25	Enhanced isosteric heat, selectivity, and uptake capacity of CO_2 adsorption in a metal-organic framework by impregnated metal ions. <i>Chemical Science</i> , 2013, 4, 685-690.	3.7	149
26	Porous Metal-Organic Framework with Coordinatively Unsaturated MnII Sites: Sorption Properties for Various Gases. <i>Inorganic Chemistry</i> , 2006, 45, 8672-8676.	1.9	147
27	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, 7251-7260.	1.7	145
28	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, 11662-11669.	1.7	144
29	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, 610-612.	2.2	143
30	Magnesium Nanocrystals Embedded in a Metal-Organic Framework: Hybrid Hydrogen Storage with Synergistic Effect on Physicochemical and Chemisorption. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9814-9817.	7.2	141
31	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, 8673-8680.	1.7	135
32	High CO_2 Capture Ability of a Porous Organic Polymer Bifunctionalized with Carboxy and Triazole Groups. <i>Chemistry - A European Journal</i> , 2013, 19, 11590-11597.	1.7	130
33	Selective CO_2 adsorption in a flexible non-interpenetrated metal-organic framework. <i>Chemical Communications</i> , 2011, 47, 4258.	2.2	129
34	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, 426-434.	1.7	125
35	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, 8812-8821.	1.7	122
36	Flexible Eightfold Interpenetrating Diamondoid Network Generating 1D Channels: Selective Binding with Organic Guests. <i>Inorganic Chemistry</i> , 2005, 44, 810-812.	1.9	118

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37	Selective gas adsorption in a magnesium-based metal-organic framework. <i>Chemical Communications</i> , 2009, , 5436.	2.2	116
38	Reversible Transformation of ZnII Coordination Geometry in a Single Crystal of Porous Metal-Organic Framework [Zn3(ntb)2(EtOH)2]·4EtOH. <i>Chemistry - A European Journal</i> , 2007, 13, 4208-4215.	1.7	107
39	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.	1.9	104
40	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.	1.9	92
41	Highly efficient carbon dioxide capture with a porous organic polymer impregnated with polyethylenimine. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13245-13249.	5.2	92
42	Hydrogen Storage in a Potassium-Corona-Bound Metal-Organic Framework Incorporating Crown Ether Struts as Specific Cation Binding Sites. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7819-7822.	7.2	91
43	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.	0.5	74
44	Macrocyclic Chemistry of Nickel. <i>Advances in Inorganic Chemistry</i> , 1996, 44, 93-146.	0.4	70
45	A New Metal-Organic Open Framework Consisting of Threefold Parallel Interwoven (6,3) Nets. <i>Inorganic Chemistry</i> , 2003, 42, 676-678.	1.9	67
46	Selective CO2 adsorption in a metal-organic framework constructed from an organic ligand with flexible joints. <i>Chemical Communications</i> , 2012, 48, 9168.	2.2	59
47	Flexible Metal-Organic Framework with Hydrophobic Pores. <i>Chemistry - A European Journal</i> , 2011, 17, 13653-13656.	1.7	56
48	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.	1.6	54
49	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, 17432-17438.	1.7	52
50	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, 1151-1157.	1.9	50
51	Self-Assembly, Structures, and Magnetic Properties of Ladder-Like Copper(II) Coordination Polymers. <i>Journal of Solid State Chemistry</i> , 2000, 152, 183-190.	1.4	46
52	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, 151-157.	1.1	38
53	Title is missing!. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2001, 41, 155-162.	1.6	35
54	Synthesis of dinickel(I) and dinickel(II) complexes of bismacrocyclic ligands. <i>Inorganic Chemistry</i> , 1993, 32, 3562-3564.	1.9	33

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55	Coordination Polymer Open Frameworks Constructed of Macrocyclic Complexes. <i>Advances in Inorganic Chemistry</i> , 2006, , 39-79.	0.4	33
56	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.	1.0	28
57	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.	6.6	26
58	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.	2.2	26
59	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.	3.3	22
60	Epoxidation of an alkene promoted by various nickel(II) multiaza macrocyclic complexes. <i>Journal of Molecular Catalysis A</i> , 2000, 151, 71-78.	4.8	21
61	Template Synthesis, Properties, and Crystal Structure of a Trigonal Bipyramidal Cobalt(II) Octaazamacrocyclic Complex. <i>Inorganic Chemistry</i> , 1997, 36, 5651-5654.	1.9	20
62	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.	1.3	20
63	Guest-dependent host structures and host-induced guest assemblies. <i>CrystEngComm</i> , 2012, 14, 2748.	1.3	16
64	A Stair-Shape Molecular Silver(0) Chain. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8390-8393.	7.2	14
65	Transmetalation of nickel(II) ion in a nickel(II) azamacrocyclic complex with gold(III) ion. <i>Inorganica Chimica Acta</i> , 2000, 308, 150-154.	1.2	11
66	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.	1.1	10
67	Metal-Organic Frameworks and Porous Coordination Polymers: Properties and Applications. <i>Bulletin of Japan Society of Coordination Chemistry</i> , 2015, 65, 9-22.	0.1	10
68	Properties and crystal structure of a four-co-ordinate nickel(I) complex with the macrotricyclo[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.	1.1	8
69	Self-assembly of hybrid solids consisting of 2D supramolecular networks and intercalated metal complexes. <i>Comptes Rendus Chimie</i> , 2005, 8, 1543-1551.	0.2	8
70	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, 2257-2263.	1.7	6
71	Synthesis, X-ray structure, and magnetic properties of interconnected ferromagnetic molecular bowls by hydrogen bonds. <i>Inorganica Chimica Acta</i> , 2003, 355, 322-327.	1.2	4
72	Equilibrium constant for coordinative polymerization of ano,o'-dihydroxyazobenzene derivative with Ni(II) ion in water. <i>Journal of Polymer Science Part A</i> , 1997, 35, 1825-1830.	2.5	3

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73	Self-Assembly of a Molecular Floral Lace with One-Dimensional Channels and Inclusion of Glucose. , 1999, 38, 1405.		3
74	Synthesis of multifunctional metal-organic frameworks and tuning the functionalities with pendant ligands. Dalton Transactions, 2020, 49, 15034-15040.	1.6	2
75	50 Years as a Woman Chemist in South Korea. Chemistry - an Asian Journal, 2020, 15, 934-936.	1.7	2
76	Kinetics and mechanism of the nickel(II)- and copper(II)- promoted reduction of di-2-pyridyl ketone with sodium tetrahydroborate. Journal of the Chemical Society Dalton Transactions, 1991, , 1165.	1.1	1
77	Innenr¼cktitelbild: 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
78	Innenr¼cktitelbild: Copper-Organic Framework Fabricated with CuS Nanoparticles: Synthesis, Electrical Conductivity, and Electrocatalytic Activities for Oxygen Reduction Reaction (Angew. Chem.) Tj ETQq0 0 0rgBT /Ovlock 10 Tf		