

Hyungphil Chun

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Rigid and Flexible: A Highly Porous Metal-Organic Framework with Unusual Guest-Dependent Dynamic Behavior. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5033-5036.	7.2	1,094
2	Microporous Manganese Formate: A Simple Metal-Organic Porous Material with High Framework Stability and Highly Selective Gas Sorption Properties. <i>Journal of the American Chemical Society</i> , 2004, 126, 32-33.	6.6	929
3	Synthesis, X-ray Crystal Structures, and Gas Sorption Properties of Pillared Square Grid Nets Based on Paddle-Wheel Motifs: Implications for Hydrogen Storage in Porous Materials. <i>Chemistry - A European Journal</i> , 2005, 11, 3521-3529.	1.7	827
4	A Homochiral Metal-Organic Material with Permanent Porosity, Enantioselective Sorption Properties, and Catalytic Activity. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 916-920.	7.2	620
5	Metal-Organic Replica of Fluorite Built with an Eight-Connecting Tetranuclear Cadmium Cluster and a Tetrahedral Four-Connecting Ligand. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 971-974.	7.2	241
6	Designed Self-Assembly of Molecular Necklaces Using Host-Stabilized Charge-Transfer Interactions. <i>Journal of the American Chemical Society</i> , 2004, 126, 1932-1933.	6.6	233
7	Molecular and Electronic Structure of Octahedral-aminophenolato and-Iminobenzosemiquinonato Complexes of V(V), Cr(III), Fe(III), and Co(III). Experimental Determination of Oxidation Levels of Ligands and Metal Ions. <i>Inorganic Chemistry</i> , 2001, 40, 4157-4166.	1.9	182
8	Low-Level Self-Assembly of Open Framework Based on Three Different Polyhedra: A Metal-Organic Analogue of Face-Centered Cubic Dodecaboride. <i>Journal of the American Chemical Society</i> , 2008, 130, 800-801.	6.6	130
9	o-Iminobenzosemiquinonato(1 ⁻) and o-Amidophenolato(2 ⁻) Complexes of Palladium(II) and Platinum(II): A Combined Experimental and Density Functional Theoretical Study. <i>Inorganic Chemistry</i> , 2002, 41, 4295-4303.	1.9	127
10	Tuning the Electronic Structure of Halido-bis(o-imino-benzosemiquinonato)iron(III) Complexes. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2489-2492.	7.2	110
11	Isorecticular Metal-Organic Polyhedral Networks Based on 5-Connecting Paddlewheel Motifs. <i>Inorganic Chemistry</i> , 2009, 48, 2043-2047.	1.9	96
12	o-Iminobenzosemiquinonato Complexes of Mn(III) and Mn(IV). Synthesis and Characterization of [MnIII(LISQ)2(LAP)] (St= 1) and [MnIV(LISQ)2(LAP-H)] (St=1/2). <i>Inorganic Chemistry</i> , 2002, 41, 790-795.	1.9	95
13	Discovery, Synthesis, and Characterization of an Isomeric Coordination Polymer with Pillared Kagome Net Topology. <i>Inorganic Chemistry</i> , 2007, 46, 4371-4373.	1.9	93
14	Selective gas sorption property of an interdigitated 3-D metal-organic framework with 1-D channels. <i>Chemical Communications</i> , 2007, , 5182.	2.2	82
15	Vapor phase inclusion of ferrocene and its derivative in a microporous metal-organic porous material and its structural characterization by single crystal X-ray diffraction. <i>Chemical Communications</i> , 2006, , 2759-2761.	2.2	75
16	S = 3/2, S = 1/2 Spin Crossover Behavior in Five-Coordinate Halido- and Pseudohalido-bis(o-iminobenzosemiquinonato)iron(III) Complexes. <i>Inorganic Chemistry</i> , 2003, 42, 5612-5620.	1.9	72
17	Octahedral (cis-Cyclam)iron(III) Complexes with O,N-Coordinated o-Iminosemiquinonato(1 ⁻) Radicals and o-Imidophenolato(2 ⁻) Anions. <i>Inorganic Chemistry</i> , 2002, 41, 5091-5099.	1.9	68
18	Cobalt(II)/(III) Complexes Containing o-Iminothiobenzosemiquinonato(1 ⁻) and-Iminobenzosemiquinonato(1 ⁻) Radical Ligands. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 1957-1967.	1.0	68

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19	Nonporous Titanium-oxo Molecular Clusters That Reversibly and Selectively Adsorb Carbon Dioxide. <i>Inorganic Chemistry</i> , 2013, 52, 9705-9707.	1.9	66
20	Targeted Synthesis of a Prototype MOF Based on $Zn_4(O)(O_2C)_6$ Units and a Nonlinear Dicarboxylate Ligand. <i>Inorganic Chemistry</i> , 2009, 48, 417-419.	1.9	63
21	Discrimination of Small Gas Molecules through Adsorption: Reverse Selectivity for Hydrogen in a Flexible Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2009, 48, 9980-9982.	1.9	55
22	Efficient Hydrogen Sorption in 8-Connected MOFs Based on Trinuclear Pinwheel Motifs. <i>Inorganic Chemistry</i> , 2008, 47, 5355-5359.	1.9	54
23	Facile synthesis of metal/metal oxide nanoparticles inside a nanoporous carbon matrix (M/MO@C) through the morphology-preserved transformation of metal-organic framework. <i>Chemical Communications</i> , 2015, 51, 7238-7241.	2.2	49
24	Unique Coordination-Based Heterometallic Approach for the Stoichiometric Inclusion of High-Valent Metal Ions in a Porous Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2013, 52, 5645-5647.	1.9	38
25	Robust Molecular Crystals of Titanium(IV)-oxo-Carboxylate Clusters Showing Water Stability and CO_2 Sorption Capability. <i>Inorganic Chemistry</i> , 2014, 53, 7288-7293.	1.9	37
26	Topologies of Metal-Organic Frameworks Based on Pyrimidine-5-carboxylate and Unexpected Gas-Sorption Selectivity for CO_2 . <i>Inorganic Chemistry</i> , 2010, 49, 10833-10839.	1.9	35
27	Zirconium-Formate Macrocycles and Supercage: Molecular Packing versus MOF-like Network for Water Vapor Sorption. <i>Journal of the American Chemical Society</i> , 2018, 140, 10915-10920.	6.6	33
28	Hydrogen storage in Co- and Zn-based metal-organic frameworks at ambient temperature. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9754-9759.	3.8	30
29	Hysteretic Gas Sorption in a Microporous Metal-Organic Framework with Nonintersecting 3D Channels. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 4946-4949.	1.0	27
30	Metal-Organic Frameworks from Group 4 Metals and 2,5-Dihydroxyterephthalic Acid: Reinvestigation, New Structure, and Challenges Toward Gas Storage and Separation. <i>Crystal Growth and Design</i> , 2017, 17, 2140-2146.	1.4	25
31	Unprecedented and highly symmetric (6,8)-connected topology in a porous metal-organic framework through a Zn-Ti heterometallic approach. <i>Chemical Communications</i> , 2013, 49, 10953.	2.2	24
32	Bistable and Porous Metal-Organic Frameworks with Charge-Neutral acs Net Based on Heterometallic $M_3O(CO_2)_6$ Building Blocks. <i>Crystal Growth and Design</i> , 2013, 13, 4066-4070.	1.4	23
33	Sonochemical Preparation of a Magnet-Responsive $Fe_3O_4@ZIF-8$ Adsorbent for Efficient Cu^{2+} Removal. <i>Nanomaterials</i> , 2022, 12, 753.	1.9	19
34	A Simple and Rational Approach for Binodal Metal-Organic Frameworks with Tetrahedral Nodes and Unexpected Multimodal Porosities from Nonstoichiometric Defects. <i>Crystal Growth and Design</i> , 2014, 14, 1998-2002.	1.4	12
35	Effect of pore structures on selective gas sorption behavior of ultramicroporous MOFs. <i>Microporous and Mesoporous Materials</i> , 2012, 150, 32-37.	2.2	11
36	Crystal Structures of Oxalato and Oxamido Polyaminecobalt(III) Complexes Produced by Hydrolysis of Monooxamide. <i>European Journal of Inorganic Chemistry</i> , 1999, 1999, 723-728.	1.0	10

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37	Crystal Structures of Neutral Cobalt(III) Complexes: Common Hydrogen-Bonding Patterns Observed in Compounds of Different Molecular Structures. <i>Crystal Growth and Design</i> , 2001, 1, 143-149.	1.4	10
38	Syntheses, structure and spectroscopic characterization of fac- and mer-Co(aepn)(CN) ₃ and of their 13CN analogues [aepn=N-(2-aminoethyl)-1,3-propanediamine]. <i>Polyhedron</i> , 2001, 20, 2597-2607.	1.0	10
39	Synthesis and characterization of new adjacent-bridged tetraaza macrocyclic compounds with C-alkyl groups: crystal structure and spectral properties of a copper(II) complex. <i>Inorganica Chimica Acta</i> , 2004, 357, 2783-2790.	1.2	10
40	Syntheses of K[Co(tren)(NH ₃)(SO ₄)](S ₄ O ₆)·2(H ₂ O) and of [cis- Λ^{\pm} -Co(tren)(NH ₃)Cl](S ₅ O ₆) ⁴⁻ Compounds Produced by Hydrolytic Cleavage of Sulfur-Sulfur Bonds of the Tetrathionate Anion. <i>European Journal of Inorganic Chemistry</i> , 1999, 1999, 717-722.	1.0	9
41	Λ^{\pm} -Type 3D Framework of Cobalt Cinnamate and Its Efficient Electrocatalytic Activity toward the Oxygen Evolution Reaction. <i>Chemistry of Materials</i> , 2021, 33, 2804-2813.	3.2	9
42	Polymorphism in the Crystallization Behavior of Trinitrocobalt(III) Complexes with Tridentate Amine Ligands: Hydrogen-Bonding Analysis and Syntheses of Racemic and Conglomerate mer-Co(dpt)(NO ₂) ₃ . <i>Crystal Growth and Design</i> , 2001, 1, 67-72.	1.4	8
43	The Interaction between Amminehalocobalt(III) Cations and Polythionate Anions: Hydrogen-Bonding Patterns and S-S Bond Cleavage Reactions. <i>European Journal of Inorganic Chemistry</i> , 2000, 2000, 189-193.	1.0	6
44	Triethanolamine copper chloride prepared from zerovalent metal: another polymorph of a known Cu(II) compound or a mixed-valence complex with all-trigonal bipyramidal copper?. <i>Crystal Engineering</i> , 2001, 4, 201-213.	0.7	6
45	Chromium(III) Complexes with Quadridentate Amines. Crystal Structure of [cis- Λ^{\pm} -Cr(tren)(C ₂ O ₄)]Cl·2H ₂ O (I) and [Cr ₂ (Λ^{\pm} -OH) ₂ (Λ^{\pm} -tren) ₂]Br ₄ ·2H ₂ O (II). <i>Journal of Coordination Chemistry</i> , 2002, 55, 619-626.	0.8	6
46	Triazidocobalt(III) complexes with tridentate amine ligands. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2000, 56, 1326-1329.	0.4	5
47	The phenomenon of conglomerate crystallization. <i>Polyhedron</i> , 1999, 18, 3647-3652.	1.0	4
48	Static and Dynamic Adsorptions of Water Vapor by Cyclic [Zr ₃₆] Clusters: Implications for Atmospheric Water Capture Using Molecular Solids. <i>Bulletin of the Korean Chemical Society</i> , 2021, 42, 294-302.	1.0	4
49	A Square Grid Coordination Polymer from Tetrahedral Metal Ions and Angular Dicarboxylate Ligands. <i>Journal of Chemical Crystallography</i> , 2011, 41, 537-540.	0.5	3
50	Postsynthetic ion exchange and characterization of alkali metal ions ordered in the pores of anionic Zr metal-organic framework. <i>Bulletin of the Korean Chemical Society</i> , 2021, 42, 1357-1363.	1.0	3
51	Heterometallic Zn ₆ Ti ₂ Building Block Persistent in Metal-organic Frameworks Based on Asymmetrically Substituted Dicarboxylate Ligands. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 1879-1882.	1.0	3
52	Synthesis of new structurally constrained tetraaza macropolycyclic compounds containing two rigid bridges: Crystal structure and chemical properties of a copper(II) complex. <i>Inorganica Chimica Acta</i> , 2014, 409, 315-319.	1.2	2
53	Superionic conduction in a zirconium-formate molecular solid. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17951-17955.	5.2	2
54	Conformational isomers of neutral trans-dinitrocobalt(III) complexes. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2001, 57, 33-35.	0.4	1