

Wonyoung Choe

List of Publications by Year in descending order

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papers

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citations

147801

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docs citations

73
times ranked

4190
citing authors

#	ARTICLE	IF	CITATIONS
1	Making and Breaking Covalent Bonds across the Magnetic Transition in the Giant Magnetocaloric Material $Gd_5(Si_2Ge_2)$. <i>Physical Review Letters</i> , 2000, 84, 4617-4620.	7.8	364
2	Stepwise Synthesis of Metal-Organic Frameworks: Replacement of Structural Organic Linkers. <i>Journal of the American Chemical Society</i> , 2011, 133, 9984-9987.	13.7	304
3	Highly tunable metal-organic frameworks with open metal centers. <i>CrystEngComm</i> , 2009, 11, 553-555.	2.6	197
4	Pillared Porphyrin Homologous Series: Intergrowth in Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2009, 48, 426-428.	4.0	167
5	Nanoscale Lattice Fence in a Metal-Organic Framework: Interplay between Hinged Topology and Highly Anisotropic Thermal Response. <i>Journal of the American Chemical Society</i> , 2011, 133, 14848-14851.	13.7	137
6	The rise of metal-organic polyhedra. <i>Chemical Society Reviews</i> , 2021, 50, 528-555.	38.1	133
7	Recent advances in porphyrinic metal-organic frameworks: materials design, synthetic strategies, and emerging applications. <i>CrystEngComm</i> , 2012, 14, 3839.	2.6	128
8	Nickel-Catalyzed Azide-Alkyne Cycloaddition To Access 1,5-Disubstituted 1,2,3-Triazoles in Air and Water. <i>Journal of the American Chemical Society</i> , 2017, 139, 12121-12124.	13.7	127
9	Anisotropy and large magnetoresistance in the narrow-gap semiconductor $FeSb_2$. <i>Physical Review B</i> , 2003, 67, .	3.2	124
10	MOF-Biopolymer: Collaborative Combination of Metal-Organic Framework and Biopolymer for Advanced Anticancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27512-27520.	8.0	123
11	Cross-linking Zr-based metal-organic polyhedra via postsynthetic polymerization. <i>Chemical Science</i> , 2017, 8, 7765-7771.	7.4	122
12	Self-Assembly and Properties of Nonmetalated Tetraphenyl-Porphyrin on Metal Substrates. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9408-9415.	3.1	101
13	Structural Variation in Porphyrin Pillared Homologous Series: Influence of Distinct Coordination Centers for Pillars on Framework Topology. <i>Crystal Growth and Design</i> , 2009, 9, 3327-3332.	3.0	94
14	Evolution of form in metal-organic frameworks. <i>Nature Communications</i> , 2017, 8, 14070.	12.8	89
15	Metal-organic frameworks as advanced adsorbents for pharmaceutical and personal care products. <i>Coordination Chemistry Reviews</i> , 2020, 425, 213526.	18.8	84
16	Highly Tunable Heterometallic Frameworks Constructed from Paddle-Wheel Units and Metalloporphyrins. <i>Crystal Growth and Design</i> , 2009, 9, 1960-1965.	3.0	70
17	Crystal structure and magnetism of Gd_2MgGe_2 . <i>Journal of Alloys and Compounds</i> , 2001, 329, 121-130.	5.5	65
18	A Bioinspired Synthetic Approach for Building Metal-Organic Frameworks with Accessible Metal Centers. <i>Inorganic Chemistry</i> , 2010, 49, 10217-10219.	4.0	65

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19	An Annulative Synthetic Strategy for Building Triphenylene Frameworks by Multiple C-H Bond Activations. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5007-5011.	13.8	61
20	Phase Transformation Driven by Valence Electron Concentration: Å Tuning Interslab Bond Distances in Gd ₅ GaxGe _{4-x} . <i>Journal of the American Chemical Society</i> , 2003, 125, 15183-15190.	13.7	59
21	Classification of Structural Motifs in Porphyrinic Coordination Polymers Assembled from Porphyrin Building Units, 5,10,15,20-Tetrapyrrolylporphyrin and Its Derivatives. <i>Journal of Chemical Crystallography</i> , 2009, 39, 229-240.	1.1	57
22	Stepwise pillar insertion into metal-organic frameworks: a sequential self-assembly approach. <i>CrystEngComm</i> , 2012, 14, 6129.	2.6	54
23	Sequential self-assembly in metal-organic frameworks. <i>Dalton Transactions</i> , 2012, 41, 3889.	3.3	49
24	Coordination Networks of C _{3v} and C _{2v} Phenylacetylene Nitriles and Silver(I) Salts: Interplay of Ligand Symmetry and Molecular Dipole Moments in the Solid State. <i>Chemistry of Materials</i> , 1999, 11, 1776-1783.	6.7	45
25	MOP Å— MOF: Collaborative Combination of Metal-Organic Polyhedra and Metal-Organic Framework for Proton Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12639-12646.	8.0	45
26	A mixed-linker porphyrin framework with CdI ₂ -type topology. <i>CrystEngComm</i> , 2008, 10, 824.	2.6	43
27	Syntheses and Crystal Structures of Three Copper Tellurides: BaDyCuTe ₃ , K _{1.5} Dy ₂ Cu _{2.5} Te ₅ , and Acentric K _{0.5} Ba _{0.5} DyCu _{1.5} Te ₃ . <i>Chemistry of Materials</i> , 1998, 10, 1320-1326.	6.7	41
28	Å Nanoscale Zippers in the Crystalline Solid. Structural Variations in the Giant Magnetocaloric Material Gd ₅ Si _{1.5} Ge _{2.5} . <i>Chemistry of Materials</i> , 2003, 15, 1413-1419.	6.7	39
29	Metal-Organic Framework Assembled from T-Shaped and Octahedral Nodes: A Mixed-Linker Strategy To Create a Rare Anatase TiO ₂ Topology. <i>Inorganic Chemistry</i> , 2009, 48, 9060-9062.	4.0	38
30	Porous Zr ₆ L ₃ Metalloclage with Synergetic Binding Centers for CO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8685-8691.	8.0	38
31	Å Nanoscale Zippers in Gd ₅ (Si _x Ge _{1-x}) ₄ : Å Symmetry and Chemical Influences on the Nanoscale Zipping Action. <i>Inorganic Chemistry</i> , 2003, 42, 8223-8229.	4.0	33
32	An Interdigitated Metalloporphyrin Framework: Two-Dimensional Tessellation, Framework Flexibility, and Selective Guest Accommodation. <i>Crystal Growth and Design</i> , 2010, 10, 171-176.	3.0	32
33	Unveiling 79 Å Year-Old Ixene and Its BN-Doped Derivative. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14891-14895.	13.8	29
34	Metal-organic framework based on hinged cube tessellation as transformable mechanical metamaterial. <i>Science Advances</i> , 2019, 5, eaav4119.	10.3	28
35	Mining Insights on Metal-Organic Framework Synthesis from Scientific Literature Texts. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 1190-1198.	5.4	27
36	Microstructural analysis of twinned Å Gd ₅ Si ₂ Ge ₂ . <i>Physical Review B</i> , 2002, 66, .	3.2	26

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37	Chemoselective Trifluoroethylation Reactions of Quinazolinones and Identification of Photostability. <i>Journal of Organic Chemistry</i> , 2019, 84, 6737-6751.	3.2	26
38	Chemo- and regioselective click reactions through nickel-catalyzed azide-alkyne cycloaddition. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 3374-3381.	2.8	26
39	Synthesis and Structure of New Cd ²⁺ /Bi ³⁺ S Homologous Series: A Study in Intergrowth and the Control of Twinning Patterns. <i>Chemistry of Materials</i> , 1997, 9, 2025-2030.	6.7	24
40	Adsorptive Removal of Industrial Dye by Nanoporous Zr porphyrinic Metal-Organic Framework Microcubes. <i>ACS Applied Nano Materials</i> , 2021, 4, 10068-10076.	5.0	18
41	Hollow and solid spherical magnetostrictive particulate composites. <i>Journal of Applied Physics</i> , 2004, 96, 3362-3365.	2.5	17
42	Tuning of the flexibility in metal-organic frameworks based on pendant arm macrocycles. <i>Chemical Communications</i> , 2019, 55, 8832-8835.	4.1	16
43	Formation of trigons in a metal-organic framework: The role of metal-organic polyhedron subunits as meta-atoms. <i>Chemical Science</i> , 2019, 10, 6157-6161.	7.4	16
44	Gd ₅ Si ₂ Ge ₂ composite for magnetostrictive actuator applications. <i>Applied Physics Letters</i> , 2004, 84, 4801-4803.	3.3	15
45	An Annulative Synthetic Strategy for Building Triphenylene Frameworks by Multiple C-H Bond Activations. <i>Angewandte Chemie</i> , 2017, 129, 5089-5093.	2.0	14
46	Multivariate porous platform based on metal-organic polyhedra with controllable functionality assembly. <i>Matter</i> , 2021, 4, 2460-2473.	10.0	14
47	Impact of Zr ₆ Node in a Metal-Organic Framework for Adsorptive Removal of Antibiotics from Water. <i>Inorganic Chemistry</i> , 2021, 60, 16966-16976.	4.0	13
48	Gd ₂ AlGe ₂ : An "Almost-Zintl Phase" and a New Stacking Variant of the W ₂ CoB ₂ Type Dedicated to Professor Welf Bronger on the Occasion of his 70th Birthday. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2002, 628, 1575.	1.2	12
49	A spectroscopic study on the existence of Cu ³⁺ OR O ₂ ²⁻ in the superconducting YBa ₂ Cu _{3-x} Co _x O _{7±δ} phase. <i>Journal of Physics and Chemistry of Solids</i> , 1991, 52, 545-549.	4.0	11
50	Topology-guided roadmap for reticular chemistry of metal-organic polyhedra. <i>CheM</i> , 2022, 8, 617-631.	11.7	10
51	Preparation of 90K superconductor YBa ₂ Cu ₃ O _{7-δ} via oxide precursors BaCuO ₂ and Y ₂ Cu ₂ O ₅ . <i>Materials Research Bulletin</i> , 1989, 24, 867-874.	5.2	9
52	Discovery of Zr-based metal-organic polygon: Unveiling new design opportunities in reticular chemistry. <i>Nano Research</i> , 2021, 14, 392-397.	10.4	9
53	Role of Zr ₆ Metal Nodes in Zr-Based Metal-Organic Frameworks for Catalytic Detoxification of Pesticides. <i>Inorganic Chemistry</i> , 2021, 60, 10249-10256.	4.0	8
54	Synthesis of α,β -unsaturated ketones through nickel-catalysed aldehyde-free hydroacylation of alkynes. <i>Communications Chemistry</i> , 2022, 5, .	4.5	8

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55	Unveiling 79-Year-Old Ixene and Its BN-Doped Derivative. <i>Angewandte Chemie</i> , 2020, 132, 15001-15005.	2.0	7
56	Tetrazole-Based Energetic Metal-Organic Frameworks: Impacts of Metals and Ligands on Explosive Properties. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	2.0	7
57	Trivalent copper and indium heterometallic complex with dithiocarbamate and iodide ligands. <i>Journal of Molecular Structure</i> , 2020, 1204, 127478.	3.6	6
58	Rapid access to polycyclic N-heteroarenes from unactivated, simple azines via a base-promoted Minisci-type annulation. <i>Nature Communications</i> , 2022, 13, 2421.	12.8	6
59	Molecular Engineered Safer Organic Battery through the Incorporation of Flame Retarding Organophosphonate Moiety. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10096-10101.	8.0	5
60	Modulating Energetic Characteristics of Multicomponent 1D Coordination Polymers: Interplay of Metal-Ligand Coordination Modes. <i>Inorganic Chemistry</i> , 2022, 61, 1881-1887.	4.0	5
61	Organic Phototransistors Based on Self-Assembled Microwires of <i>n</i> -Type Distyrylbenzene Derivative. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 2302-2308.	2.7	4
62	Postsynthetic Linker Exchange in Metal-Organic Frameworks. <i>Series on Chemistry, Energy and the Environment</i> , 2018, , 143-182.	0.3	2
63	PN-Doped tetraphenylanthracene: a straightforward synthetic strategy analogous to BN-annulation. <i>Chemical Communications</i> , 2021, 57, 12147-12150.	4.1	2
64	Understanding the Structural Collapse during Activation of Metal-Organic Frameworks with Copper Paddlewheels. <i>Inorganic Chemistry</i> , 2022, 61, 9702-9709.	4.0	2
65	Temperature- and magnetic-field-induced phase transformation in bulk and composite Gd ₅ Si ₂ Ge ₂ , 2003, 5053, 25.		1
66	“Nanoscale Zippers” in the Crystalline Solid. Structural Variations in the Giant Magnetocaloric Material Gd ₅ Si _{1.5} Ge _{2.5} . <i>ChemInform</i> , 2003, 34, no.	0.0	0
67	Forced volume magnetostriction in composite Gd ₅ Si ₂ Ge ₂ , 2004, 5387, 64.		0