

Zhi-Gang Gu

List of Publications by Year in descending order

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80
papers

3,753
citations

126907
33
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59
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81
all docs

81
docs citations

81
times ranked

4053
citing authors

#	ARTICLE	IF	CITATIONS
1	Chiral chemistry of metal-organic frameworks. <i>Chemical Society Reviews</i> , 2016, 45, 3122-3144.	38.1	229
2	Fullerene-like Polyoxotitanium Cage with High Solution Stability. <i>Journal of the American Chemical Society</i> , 2016, 138, 2556-2559.	13.7	183
3	MOF-Templated Synthesis of Ultrasmall Photoluminescent Carbon Nanodot Arrays for Optical Applications. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6853-6858.	13.8	179
4	The surface barrier phenomenon at the loading of metal-organic frameworks. <i>Nature Communications</i> , 2014, 5, 4562.	12.8	165
5	A Confined Fabrication of Perovskite Quantum Dots in Oriented MOF Thin Film. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28737-28742.	8.0	132
6	Nanoporous Designer Solids with Huge Lattice Constant Gradients: Multiheteroepitaxy of Metal-Organic Frameworks. <i>Nano Letters</i> , 2014, 14, 1526-1529.	9.1	130
7	Epitaxial growth of oriented prussian blue analogue derived well-aligned CoFe ₂ O ₄ thin film for efficient oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 1-9.	20.2	128
8	Epitaxial growth and applications of oriented metal-organic framework thin films. <i>Coordination Chemistry Reviews</i> , 2019, 378, 513-532.	18.8	122
9	Transparent films of metal-organic frameworks for optical applications. <i>Microporous and Mesoporous Materials</i> , 2015, 211, 82-87.	4.4	114
10	A Family of Three-Dimensional Lanthanide-Zinc Heterometal-Organic Frameworks from 4,5-Imidazoledicarboxylate and Oxalate. <i>Crystal Growth and Design</i> , 2011, 11, 2220-2227.	3.0	92
11	A surface-mounted MOF thin film with oriented nanosheet arrays for enhancing the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18519-18528.	10.3	92
12	Construction of Metal-Imidazole-Based Dicarboxylate Networks with Topological Diversity: Thermal Stability, Gas Adsorption, and Fluorescent Emission Properties. <i>Crystal Growth and Design</i> , 2012, 12, 2178-2186.	3.0	87
13	Interpenetrated Metal-Porphyrinic Framework for Enhanced Nonlinear Optical Limiting. <i>Journal of the American Chemical Society</i> , 2021, 143, 17162-17169.	13.7	85
14	Chiral Porous Metacrystals: Employing Liquid-Phase Epitaxy to Assemble Enantiopure Metal-Organic Nanoclusters into Molecular Framework Pores. <i>ACS Nano</i> , 2016, 10, 977-983.	14.6	83
15	Enantioselective adsorption in homochiral metal-organic frameworks: the pore size influence. <i>Chemical Communications</i> , 2015, 51, 8998-9001.	4.1	74
16	Hollow Cu ₂ -TiO ₂ /C nanospheres derived from a Ti precursor encapsulated MOF coating for efficient photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7175-7181.	10.3	74
17	Assembly of a Series of Trinuclear Zinc(II) Compounds with N ₂ O ₂ Donor Tetradentate Symmetrical Schiff Base Ligand. <i>Crystal Growth and Design</i> , 2010, 10, 4014-4022.	3.0	72
18	Auto-controlled fabrication of a metal-porphyrin framework thin film with tunable optical limiting effects. <i>Chemical Science</i> , 2020, 11, 1935-1942.	7.4	68

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19	Conversion of nonporous helical cadmium organic framework to a porous form. Chemical Communications, 2010, 46, 5373.	4.1	66
20	Liquid-phase epitaxial growth of a homochiral MOF thin film on poly(α -DOPA) functionalized substrate for improved enantiomer separation. Chemical Communications, 2016, 52, 772-775.	4.1	60
21	Oriented Circular Dichroism Analysis of Chiral Surface-Anchored Metal-Organic Frameworks Grown by Liquid-Phase Epitaxy and upon Loading with Chiral Guest Compounds. Chemistry - A European Journal, 2014, 20, 9879-9882.	3.3	57
22	Experimental and theoretical investigations of the electronic band structure of metal-organic frameworks of HKUST-1 type. Applied Physics Letters, 2015, 107, .	3.3	57
23	Epitaxial Growth of MOF Thin Film for Modifying the Dielectric Layer in Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2017, 9, 7259-7264.	8.0	56
24	Liquid-Phase Epitaxial Growth of Azapyrene-Based Chiral Metal-Organic Framework Thin Films for Circularly Polarized Luminescence. ACS Applied Materials & Interfaces, 2019, 11, 31421-31426.	8.0	53
25	Planar-chiral building blocks for metal-organic frameworks. Chemical Communications, 2015, 51, 4796-4798.	4.1	52
26	Chiral-Induced Ultrathin Covalent Organic Framework Nanosheets with Tunable Circularly Polarized Luminescence. Journal of the American Chemical Society, 2022, 144, 7245-7252.	13.7	52
27	Construction of Low-Dimensional Cadmium Compounds with N_2O/N_2S Donor Tridentate Schiff Base Ligands. Crystal Growth and Design, 2009, 9, 3776-3788.	3.0	48
28	Liquid-Phase Epitaxy Effective Encapsulation of Lanthanide Coordination Compounds into MOF Film with Homogeneous and Tunable White-Light Emission. ACS Applied Materials & Interfaces, 2015, 7, 28585-28590.	8.0	45
29	Surface-mounted MOF templated fabrication of homochiral polymer thin film for enantioselective adsorption of drugs. Chemical Communications, 2017, 53, 1470-1473.	4.1	41
30	Templated synthesis of cobalt subnanoclusters dispersed N/C nanocages from COFs for highly-efficient oxygen reduction reaction. Chemical Engineering Journal, 2020, 401, 126149.	12.7	40
31	Host-Guest Thin Films by Confining Ultrafine Pt/C QDs into Metal-Organic Frameworks for Highly Efficient Hydrogen Evolution. Small, 2020, 16, e2005111.	10.0	39
32	Epitaxial encapsulation of homodispersed CeO_2 in a cobalt-porphyrin network derived thin film for the highly efficient oxygen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 20126-20130.	10.3	36
33	Liquid Phase Epitaxial Growth and Optical Properties of Photochromic Guest-Encapsulated MOF Thin Film. Crystal Growth and Design, 2016, 16, 5487-5492.	3.0	35
34	Surface-coordinated metal-organic framework thin films (SURMOFs) for electrocatalytic applications. Nanoscale, 2020, 12, 12712-12730.	5.6	35
35	Construction of four 3d-4d/4d complexes based on salen-type schiff base ligands. CrystEngComm, 2011, 13, 6911.	2.6	34
36	Synthesis of homochiral zeolitic metal-organic frameworks with amino acid and tetrazolates for chiral recognition. RSC Advances, 2017, 7, 4872-4875.	3.6	34

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37	van der Waals Epitaxial Growth of 2D Metal–Porphyrin Framework Derived Thin Films for Dye-Sensitized Solar Cells. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800985.	3.7	34
38	Metal–Organic Frameworks with Achiral/Monochiral Nano-Channels. <i>Crystal Growth and Design</i> , 2011, 11, 2824-2828.	3.0	33
39	Monolithic, Crystalline MOF Coating: An Excellent Patterning and Photoresist Material. <i>ChemNanoMat</i> , 2015, 1, 338-345.	2.8	33
40	Epitaxial Growth of Highly Transparent Metal–Porphyrin Framework Thin Films for Efficient Bifacial Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1078-1083.	8.0	33
41	Epitaxial Growth of Oriented Metalloporphyrin Network Thin Film for Improved Selectivity of Volatile Organic Compounds. <i>Small</i> , 2017, 13, 1604035.	10.0	32
42	Helical carbon tubes derived from epitaxial Cu-MOF coating on textile for enhanced supercapacitor performance. <i>Dalton Transactions</i> , 2018, 47, 5558-5563.	3.3	32
43	Vapor-assisted epitaxial growth of porphyrin-based MOF thin film for nonlinear optical limiting. <i>Science China Chemistry</i> , 2020, 63, 1059-1065.	8.2	28
44	Oriented Assembly of 2D Metal-Pyridylporphyrinic Framework Films for Giant Nonlinear Optical Limiting. <i>Nano Letters</i> , 2021, 21, 10012-10018.	9.1	28
45	One-, Two- and Three-Dimensional 3d-4f Heterometal Complexes Constructed from Pyridine-2,3-dicarboxylic Acid. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5562-5570.	2.0	27
46	Auxiliary Ligand-Dependent Assembly of Several Ni/Ni [~] Cd Compounds with N ₂ O ₂ Donor Tetradentate Symmetrical Schiff Base Ligand. <i>Crystal Growth and Design</i> , 2010, 10, 4987-4994.	3.0	25
47	Step by Step Bisacrificial Templates Growth of Bimetallic Sulfide QDs-Attached MOF Nanosheets for Nonlinear Optical Limiting. <i>Advanced Optical Materials</i> , 2021, 9, 2002072.	7.3	25
48	Surface-coordinated metal-organic framework thin films (SURMOFs): From fabrication to energy applications. <i>EnergyChem</i> , 2021, 3, 100065.	19.1	25
49	Temperature-induced two copper (II) supramolecular isomers constructed from 2-ethyl-1H-imidazole-4, 5-dicarboxylate. <i>Inorganic Chemistry Communication</i> , 2011, 14, 1479-1484.	3.9	23
50	Chiral Chemistry of Homochiral Porous Thin Film with Different Growth Orientations. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27332-27338.	8.0	23
51	Oriented Growth of In ₂ O ₃ Chain Based Metal–Porphyrin Framework Thin Film for High-Sensitive Photodetector. <i>Advanced Science</i> , 2021, 8, 2100548.	11.2	23
52	Chiral Metal–Organic Cluster Induced High Circularly Polarized Luminescence of Metal–Organic Framework Thin Film. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	23
53	Construction of one pH-independent 3-D pillar-layer lead-organic framework containing tetrazole-1-acetic acid. <i>Inorganic Chemistry Communication</i> , 2013, 27, 22-25.	3.9	22
54	Facile Synthesis of Metal-Loaded Porous Carbon Thin Films via Carbonization of Surface-Mounted Metal–Organic Frameworks. <i>Inorganic Chemistry</i> , 2017, 56, 3526-3531.	4.0	21

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55	N-Heterocyclic Carbene as a Surface Platform for Assembly of Homochiral Metal-Organic Framework Thin Films in Chiral Sensing. ACS Applied Materials & Interfaces, 2020, 12, 38357-38364.	8.0	20
56	A 2D pillar-layered coordination framework with meso-helix constructed from imidazole-4,5-dicarboxylate and terephthalate. Inorganic Chemistry Communication, 2010, 13, 1439-1444.	3.9	18
57	1-D to 3-D lanthanide coordination polymers constructed from 5-aminoisophthalic acid and oxalic acid. Inorganic Chemistry Communication, 2012, 23, 25-30.	3.9	18
58	A robust porous pillar-chained Cd-framework with selective sorption for CO ₂ and guest-driven tunable luminescence. CrystEngComm, 2014, 16, 3848.	2.6	18
59	Insight into Fe(Salen) Encapsulated Co-Porphyrin Framework Derived Thin Film for Efficient Oxygen Evolution Reaction. Crystal Growth and Design, 2018, 18, 7150-7157.	3.0	18
60	MOF-Templated Synthesis of Ultrasmall Photoluminescent Carbon Nanodot Arrays for Optical Applications. Angewandte Chemie, 2017, 129, 6957-6962.	2.0	17
61	Single molecule magnetic behaviour in lanthanide naphthalenesulfonate complexes. Dalton Transactions, 2018, 47, 17349-17356.	3.3	16
62	Construction of one 2D samarium-organic framework based on 2,4-biphenyldicarboxylate. Inorganic Chemistry Communication, 2011, 14, 458-462.	3.9	15
63	The first Mn-Zn heterometallic dinuclear compound based on Schiff base ligand N, N'-bis(salicylidene)-1,3-diaminopropane. Inorganic Chemistry Communication, 2011, 14, 1228-1232.	3.9	15
64	Insight into the epitaxial encapsulation of Pd catalysts in an oriented metalloporphyrin network thin film for tandem catalysis. Nanoscale, 2017, 9, 7734-7738.	5.6	15
65	Electrooxidation of Pd-Cu NP loaded porous carbon derived from a Cu-MOF. RSC Advances, 2018, 8, 1803-1807.	3.6	15
66	A new 3D fluorescent lanthanide-organic framework containing helical chains and zigzag layers from mixed carboxylate ligands. Inorganic Chemistry Communication, 2011, 14, 68-71.	3.9	14
67	Epitaxial growth of prussian blue analogue derived NiFeP thin film for efficient electrocatalytic hydrogen evolution reaction. Journal of Solid State Chemistry, 2021, 293, 121779.	2.9	14
68	Novel Third-Order Nonlinear Optical Materials with Craig-McBius Aromaticity. Journal of Physical Chemistry Letters, 2021, 12, 11784-11789.	4.6	13
69	Optimizing Photodetectors in Two-Dimensional Metal-Metalloporphyrinic Framework Thin Films. ACS Applied Materials & Interfaces, 2022, 14, 33548-33554.	8.0	13
70	One new 2D cadmium-organic framework containing 2,4-biphenyldicarboxylate ligand. Inorganic Chemistry Communication, 2011, 14, 247-250.	3.9	11
71	Surface chiroselective assembly of enantiopure crystalline porous films containing bichiral building blocks. Chemical Science, 2021, 12, 12346-12352.	7.4	11
72	Helical copper-porphyrinic framework nanoarrays for highly efficient CO ₂ electroreduction. Science China Materials, 2022, 65, 1269-1275.	6.3	11

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73	2D pillar-chained 3d-4f heterometallic coordination polymers based on 2,4- C_6H_4 -biphenyldicarboxylate. Inorganic Chemistry Communication, 2011, 14, 453-457.	3.9	9
74	Efficient synthesis and characterization of the low dimensional heteronuclear complexes with a N_2O_2 -donor Schiff base ligand. Inorganica Chimica Acta, 2012, 392, 177-183.	2.4	9
75	A metal-porphyrinic framework film as an efficient optical limiting layer in an electro-optical switchable device. Chemical Communications, 2021, 57, 10166-10169.	4.1	8
76	Four Ln^{III} - Mg^{II} Metal Organic Frameworks Containing Fan-like Helices and Independent $[\text{Mg}(\text{H}_2\text{O})_6]^{2+}$ Units. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 652-657.	1.2	7
77	Chiral and kryptoracemic Dy^{III} complexes with field-induced single molecule magnet behavior. CrystEngComm, 2018, 20, 4582-4589.	2.6	6
78	Liquid phase epitaxial layer by layer dipping assembly of metal-organic framework thin films and their physical property. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 126801.	0.5	2
79	Layer-by-layer spray preparation of SURMOF and their applications. Scientia Sinica Chimica, 2020, 50, 857-866.	0.4	1
80	Synthesis and Applications of Homochiral Metal-Organic Frameworks. Series on Chemistry, Energy and the Environment, 2018, , 411-439.	0.3	0