

Zhi-Gang Gu

List of Publications by Year in descending order

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80
papers

3,753
citations

126858

33
h-index

138417

58
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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.	18.7	229
2	Fullerene-like Polyoxotitanium Cage with High Solution Stability. <i>Journal of the American Chemical Society</i> , 2016, 138, 2556-2559.	6.6	183
3	MOF-Templated Synthesis of Ultrasmall Photoluminescent Carbon Nanodot Arrays for Optical Applications. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6853-6858.	7.2	179
4	The surface barrier phenomenon at the loading of metal-organic frameworks. <i>Nature Communications</i> , 2014, 5, 4562.	5.8	165
5	A Confined Fabrication of Perovskite Quantum Dots in Oriented MOF Thin Film. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28737-28742.	4.0	132
6	Nanoporous Designer Solids with Huge Lattice Constant Gradients: Multiheteroepitaxy of Metal-Organic Frameworks. <i>Nano Letters</i> , 2014, 14, 1526-1529.	4.5	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.	10.8	128
8	Epitaxial growth and applications of oriented metal-organic framework thin films. <i>Coordination Chemistry Reviews</i> , 2019, 378, 513-532.	9.5	122
9	Transparent films of metal-organic frameworks for optical applications. <i>Microporous and Mesoporous Materials</i> , 2015, 211, 82-87.	2.2	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.	1.4	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.	5.2	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.	1.4	87
13	Interpenetrated Metal-Porphyrinic Framework for Enhanced Nonlinear Optical Limiting. <i>Journal of the American Chemical Society</i> , 2021, 143, 17162-17169.	6.6	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.	7.3	83
15	Enantioselective adsorption in homochiral metal-organic frameworks: the pore size influence. <i>Chemical Communications</i> , 2015, 51, 8998-9001.	2.2	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.	5.2	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.	1.4	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.	3.7	68

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19	Conversion of nonporous helical cadmium organic framework to a porous form. <i>Chemical Communications</i> , 2010, 46, 5373.	2.2	66
20	Liquid-phase epitaxial growth of a homochiral MOF thin film on poly(<i>l</i> -DOPA) functionalized substrate for improved enantiomer separation. <i>Chemical Communications</i> , 2016, 52, 772-775.	2.2	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. <i>Chemistry - A European Journal</i> , 2014, 20, 9879-9882.	1.7	57
22	Experimental and theoretical investigations of the electronic band structure of metal-organic frameworks of HKUST-1 type. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	57
23	Epitaxial Growth of MOF Thin Film for Modifying the Dielectric Layer in Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7259-7264.	4.0	56
24	Liquid-Phase Epitaxial Growth of Azapyrene-Based Chiral Metal-Organic Framework Thin Films for Circularly Polarized Luminescence. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31421-31426.	4.0	53
25	Planar-chiral building blocks for metal-organic frameworks. <i>Chemical Communications</i> , 2015, 51, 4796-4798.	2.2	52
26	Chiral-Induced Ultrathin Covalent Organic Framework Nanosheets with Tunable Circularly Polarized Luminescence. <i>Journal of the American Chemical Society</i> , 2022, 144, 7245-7252.	6.6	52
27	Construction of Low-Dimensional Cadmium Compounds with N_2O/N_2S Donor Tridentate Schiff Base Ligands. <i>Crystal Growth and Design</i> , 2009, 9, 3776-3788.	1.4	48
28	Liquid-Phase Epitaxy Effective Encapsulation of Lanthanide Coordination Compounds into MOF Film with Homogeneous and Tunable White-Light Emission. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28585-28590.	4.0	45
29	Surface-mounted MOF templated fabrication of homochiral polymer thin film for enantioselective adsorption of drugs. <i>Chemical Communications</i> , 2017, 53, 1470-1473.	2.2	41
30	Templated synthesis of cobalt subnanoclusters dispersed N/C nanocages from COFs for highly-efficient oxygen reduction reaction. <i>Chemical Engineering Journal</i> , 2020, 401, 126149.	6.6	40
31	Host-Guest Thin Films by Confining Ultrafine Pt/C QDs into Metal-Organic Frameworks for Highly Efficient Hydrogen Evolution. <i>Small</i> , 2020, 16, e2005111.	5.2	39
32	Epitaxial encapsulation of homodispersed CeO_2 in a cobalt-porphyrin network derived thin film for the highly efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20126-20130.	5.2	36
33	Liquid Phase Epitaxial Growth and Optical Properties of Photochromic Guest-Encapsulated MOF Thin Film. <i>Crystal Growth and Design</i> , 2016, 16, 5487-5492.	1.4	35
34	Surface-coordinated metal-organic framework thin films (SURMOFs) for electrocatalytic applications. <i>Nanoscale</i> , 2020, 12, 12712-12730.	2.8	35
35	Construction of four 3d-4d/4d complexes based on salen-type schiff base ligands. <i>CrystEngComm</i> , 2011, 13, 6911.	1.3	34
36	Synthesis of homochiral zeolitic metal-organic frameworks with amino acid and tetrazolates for chiral recognition. <i>RSC Advances</i> , 2017, 7, 4872-4875.	1.7	34

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37	van der Waals Epitaxial Growth of 2D Metal-Organic Framework Derived Thin Films for Dye-Sensitized Solar Cells. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800985.	1.9	34
38	Metal-Organic Frameworks with Achiral/Monochiral Nano-Channels. <i>Crystal Growth and Design</i> , 2011, 11, 2824-2828.	1.4	33
39	Monolithic, Crystalline MOF Coating: An Excellent Patterning and Photoresist Material. <i>ChemNanoMat</i> , 2015, 1, 338-345.	1.5	33
40	Epitaxial Growth of Highly Transparent Metal-Organic Framework Thin Films for Efficient Bifacial Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1078-1083.	4.0	33
41	Epitaxial Growth of Oriented Metalloporphyrin Network Thin Film for Improved Selectivity of Volatile Organic Compounds. <i>Small</i> , 2017, 13, 1604035.	5.2	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.	1.6	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.	4.2	28
44	Oriented Assembly of 2D Metal-Pyridylporphyrinic Framework Films for Giant Nonlinear Optical Limiting. <i>Nano Letters</i> , 2021, 21, 10012-10018.	4.5	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.	1.0	27
46	Auxiliary Ligand-Dependent Assembly of Several Ni/Ni ^{II} /Cd Compounds with N ₂ O ₂ Donor Tetradentate Symmetrical Schiff Base Ligand. <i>Crystal Growth and Design</i> , 2010, 10, 4987-4994.	1.4	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.	3.6	25
48	Surface-coordinated metal-organic framework thin films (SURMOFs): From fabrication to energy applications. <i>EnergyChem</i> , 2021, 3, 100065.	10.1	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.	1.8	23
50	Chiral Chemistry of Homochiral Porous Thin Film with Different Growth Orientations. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27332-27338.	4.0	23
51	Oriented Growth of Inorganic Chain Based Metal-Organic Framework Thin Film for High-Sensitive Photodetector. <i>Advanced Science</i> , 2021, 8, 2100548.	5.6	23
52	Chiral Metal-Organic Cluster Induced High Circularly Polarized Luminescence of Metal-Organic Framework Thin Film. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	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.	1.8	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.	1.9	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. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38357-38364.	4.0	20
56	A 2D pillar-layered coordination framework with meso-helix constructed from imidazole-4,5-dicarboxylate and terephthalate. <i>Inorganic Chemistry Communication</i> , 2010, 13, 1439-1444.	1.8	18
57	1-D to 3-D lanthanide coordination polymers constructed from 5-aminoisophthalic acid and oxalic acid. <i>Inorganic Chemistry Communication</i> , 2012, 23, 25-30.	1.8	18
58	A robust porous pillar-chained Cd-framework with selective sorption for CO ₂ and guest-driven tunable luminescence. <i>CrystEngComm</i> , 2014, 16, 3848.	1.3	18
59	Insight into Fe(Salen) Encapsulated Co-Porphyrin Framework Derived Thin Film for Efficient Oxygen Evolution Reaction. <i>Crystal Growth and Design</i> , 2018, 18, 7150-7157.	1.4	18
60	MOF-Templated Synthesis of Ultrasmall Photoluminescent Carbon Nanodot Arrays for Optical Applications. <i>Angewandte Chemie</i> , 2017, 129, 6957-6962.	1.6	17
61	Single molecule magnetic behaviour in lanthanide naphthalenesulfonate complexes. <i>Dalton Transactions</i> , 2018, 47, 17349-17356.	1.6	16
62	Construction of one 2D samarium-organic framework based on 2,4-biphenyldicarboxylate. <i>Inorganic Chemistry Communication</i> , 2011, 14, 458-462.	1.8	15
63	The first Mn-Zn heterometallic dinuclear compound based on Schiff base ligand N,N-bis(salicylidene)-1,3-diaminopropane. <i>Inorganic Chemistry Communication</i> , 2011, 14, 1228-1232.	1.8	15
64	Insight into the epitaxial encapsulation of Pd catalysts in an oriented metalloporphyrin network thin film for tandem catalysis. <i>Nanoscale</i> , 2017, 9, 7734-7738.	2.8	15
65	Electrooxidation of Pd-Cu NP loaded porous carbon derived from a Cu-MOF. <i>RSC Advances</i> , 2018, 8, 1803-1807.	1.7	15
66	A new 3D fluorescent lanthanide-organic framework containing helical chains and zigzag layers from mixed carboxylate ligands. <i>Inorganic Chemistry Communication</i> , 2011, 14, 68-71.	1.8	14
67	Epitaxial growth of prussian blue analogue derived NiFeP thin film for efficient electrocatalytic hydrogen evolution reaction. <i>Journal of Solid State Chemistry</i> , 2021, 293, 121779.	1.4	14
68	Novel Third-Order Nonlinear Optical Materials with Craig-Möbius Aromaticity. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11784-11789.	2.1	13
69	Optimizing Photodetectors in Two-Dimensional Metal-Metalloporphyrinic Framework Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33548-33554.	4.0	13
70	One new 2D cadmium-organic framework containing 2,4-biphenyldicarboxylate ligand. <i>Inorganic Chemistry Communication</i> , 2011, 14, 247-250.	1.8	11
71	Surface chiroselective assembly of enantiopure crystalline porous films containing bichiral building blocks. <i>Chemical Science</i> , 2021, 12, 12346-12352.	3.7	11
72	Helical copper-porphyrinic framework nanoarrays for highly efficient CO ₂ electroreduction. <i>Science China Materials</i> , 2022, 65, 1269-1275.	3.5	11

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73	2D pillar-chained 3d-4f heterometallic coordination polymers based on 2,4- C_6H_4 -biphenyldicarboxylate. <i>Inorganic Chemistry Communication</i> , 2011, 14, 453-457.	1.8	9
74	Efficient synthesis and characterization of the low dimensional heteronuclear complexes with a N ₂ O ₂ -donor Schiff base ligand. <i>Inorganica Chimica Acta</i> , 2012, 392, 177-183.	1.2	9
75	A metal-porphyrinic framework film as an efficient optical limiting layer in an electro-optical switchable device. <i>Chemical Communications</i> , 2021, 57, 10166-10169.	2.2	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. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 652-657.	0.6	7
77	Chiral and kryptoracemic Dy(ⁱⁱⁱ) complexes with field-induced single molecule magnet behavior. <i>CrystEngComm</i> , 2018, 20, 4582-4589.	1.3	6
78	Liquid phase epitaxial layer by layer dipping assembly of metal-organic framework thin films and their physical property. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 126801.	0.2	2
79	Layer-by-layer spray preparation of SURMOF and their applications. <i>Scientia Sinica Chimica</i> , 2020, 50, 857-866.	0.2	1
80	Synthesis and Applications of Homochiral Metal-Organic Frameworks. <i>Series on Chemistry, Energy and the Environment</i> , 2018, , 411-439.	0.3	0