

Gang Xu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1706748/publications.pdf>

Version: 2024-02-01

91
papers

7,728
citations

71102

41
h-index

51608

86
g-index

103
all docs

103
docs citations

103
times ranked

7385
citing authors

#	ARTICLE	IF	CITATIONS
1	A flexible metal-organic framework with a high density of sulfonic acid sites for proton conduction. <i>Nature Energy</i> , 2017, 2, 877-883.	39.5	563
2	MOF Thin Film-Coated Metal Oxide Nanowire Array: Significantly Improved Chemiresistor Sensor Performance. <i>Advanced Materials</i> , 2016, 28, 5229-5234.	21.0	492
3	Conductive Metal-Organic Framework Nanowire Array Electrodes for High-Performance Solid-State Supercapacitors. <i>Advanced Functional Materials</i> , 2017, 27, 1702067.	14.9	490
4	Layer-by-Layer Assembled Conductive Metal-Organic Framework Nanofilms for Room-Temperature Chemiresistive Sensing. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16510-16514.	13.8	424
5	Porous Field-Effect Transistors Based on a Semiconductive Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2017, 139, 1360-1363.	13.7	374
6	Photochromism of a Methyl Viologen Bismuth(III) Chloride: Structural Variation Before and After UV Irradiation. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3249-3251.	13.8	331
7	Superprotonic Conductivity in a Highly Oriented Crystalline Metal-Organic Framework Nanofilm. <i>Journal of the American Chemical Society</i> , 2013, 135, 7438-7441.	13.7	300
8	Facile -Modular Assembly-for Fast Construction of a Highly Oriented Crystalline MOF Nanofilm. <i>Journal of the American Chemical Society</i> , 2012, 134, 16524-16527.	13.7	295
9	Conductive MOFs. <i>EnergyChem</i> , 2020, 2, 100029.	19.1	264
10	Production of Primary Amines by Reductive Amination of Biomass-Derived Aldehydes/Ketones. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3050-3054.	13.8	243
11	Design Strategy for Improving Optical and Electrical Properties and Stability of Lead-Halide Semiconductors. <i>Journal of the American Chemical Society</i> , 2018, 140, 2805-2811.	13.7	210
12	Van der Waals Heterostructured MOF-on-MOF Thin Films: Cascading Functionality to Realize Advanced Chemiresistive Sensing. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14915-14919.	13.8	186
13	Semiconductive 3-D haloplumbate framework hybrids with high color rendering index white-light emission. <i>Chemical Science</i> , 2015, 6, 7222-7226.	7.4	172
14	Metal-organic framework nanosheets: Preparation and applications. <i>Coordination Chemistry Reviews</i> , 2019, 388, 79-106.	18.8	167
15	Large-Area Preparation of Crack-Free Crystalline Microporous Conductive Membrane to Upgrade High Energy Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1802052.	19.5	159
16	Third-order optical nonlinearity of the carbon nanotubes. <i>Applied Physics Letters</i> , 1999, 74, 164-166.	3.3	147
17	Metal-organic frameworks and their derivatives for electrically-transduced gas sensors. <i>Coordination Chemistry Reviews</i> , 2021, 426, 213479.	18.8	145
18	Lanthanide-Potassium Biphenyl-3,3'-disulfonyl-4,4'-dicarboxylate Frameworks: Gas Sorption, Proton Conductivity, and Luminescent Sensing of Metal Ions. <i>Inorganic Chemistry</i> , 2016, 55, 6271-6277.	4.0	141

#	ARTICLE	IF	CITATIONS
19	A Dual-Ligand Porous Coordination Polymer Chemiresistor with Modulated Conductivity and Porosity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 172-176.	13.8	124
20	Conductive metal-organic framework nanowire arrays for electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10431-10438.	10.3	115
21	MOF-Directed Synthesis of Crystalline Ionic Liquids with Enhanced Proton Conduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1290-1297.	13.8	110
22	Semiconductive Nanotube Array Constructed from Giant [Pb ^{II} ₁₈ I ₅₄ (I ₂) ₉] Wheel Clusters. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 514-518.	13.8	98
23	Layer-by-Layer Assembled Conductive Metal-Organic Framework Nanofilms for Room-Temperature Chemiresistive Sensing. <i>Angewandte Chemie</i> , 2017, 129, 16737-16741.	2.0	98
24	A ferroelectric inorganic-organic hybrid based on NLO-phore stilbazolium. <i>Journal of Materials Chemistry</i> , 2009, 19, 2179.	6.7	95
25	A Metal-Organic Framework Impregnated with a Binary Ionic Liquid for Safe Proton Conduction above 100°C. <i>Chemistry - A European Journal</i> , 2017, 23, 1248-1252.	3.3	89
26	Layer-by-Layer Growth of Preferred-Oriented MOF Thin Film on Nanowire Array for High-Performance Chemiresistive Sensing. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25758-25761.	13.8	83
27	Photochromic inorganic-organic hybrid: a new approach for switchable photoluminescence in the solid state and partial photochromic phenomenon. <i>Dalton Transactions</i> , 2010, 39, 8688.	3.3	81
28	Inorganic Acid-Impregnated Covalent Organic Gels as High-Performance Proton-Conductive Materials at Subzero Temperatures. <i>Advanced Functional Materials</i> , 2017, 27, 1701465.	14.9	80
29	Highly Anisotropic and Water Molecule-Dependent Proton Conductivity in a 2D Homochiral Copper(II) Metal-Organic Framework. <i>Chemistry of Materials</i> , 2017, 29, 2321-2331.	6.7	77
30	Chemocatalytic Conversion of Cellulosic Biomass to Methyl Glycolate, Ethylene Glycol, and Ethanol. <i>ChemSusChem</i> , 2017, 10, 1390-1394.	6.8	73
31	A new azodioxy-linked porphyrin-based semiconductive covalent organic framework with I ₂ -doping-enhanced photoconductivity. <i>CrystEngComm</i> , 2016, 18, 4259-4263.	2.6	70
32	40-Fold Enhanced Intrinsic Proton Conductivity in Coordination Polymers with the Same Proton-Conducting Pathway by Tuning Metal Cation Nodes. <i>Inorganic Chemistry</i> , 2016, 55, 983-986.	4.0	68
33	Production of Primary Amines by Reductive Amination of Biomass-Derived Aldehydes/Ketones. <i>Angewandte Chemie</i> , 2017, 129, 3096-3100.	2.0	64
34	Porphyrin-Based COF 2D Materials: Variable Modification of Sensing Performances by Post-Metallization. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	63
35	Layer-by-layer assembled dual-ligand conductive MOF nano-films with modulated chemiresistive sensitivity and selectivity. <i>Nano Research</i> , 2021, 14, 438-443.	10.4	54
36	Coordination assembly of 2D ordered organic metal chalcogenides with widely tunable electronic band gaps. <i>Nature Communications</i> , 2020, 11, 261.	12.8	52

#	ARTICLE	IF	CITATIONS
37	MOF Nanosheet Reconstructed Two-Dimensional Bionic Nanochannel for Protonic Field-Effect Transistors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9931-9935.	13.8	51
38	Structures and photoluminescence of zinc(ii) coordination polymers based on in situ generated 1H-tetrazolate-5-propionic acid ligands. <i>CrystEngComm</i> , 2011, 13, 6386.	2.6	49
39	Flexible Porous Organic Polymer Membranes for Protonic Field-Effect Transistors. <i>Advanced Materials</i> , 2020, 32, e2000730.	21.0	47
40	Van der Waals Heterostructured MOF-on-MOF Thin Films: Cascading Functionality to Realize Advanced Chemiresistive Sensing. <i>Angewandte Chemie</i> , 2019, 131, 15057-15061.	2.0	45
41	A semiconducting gyroidal metal-sulfur framework for chemiresistive sensing. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16139-16143.	10.3	44
42	Gas transport regulation in a MO/MOF interface for enhanced selective gas detection. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18397-18403.	10.3	44
43	A highly oriented conductive MOF thin film-based Schottky diode for self-powered light and gas detection. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9085-9090.	10.3	42
44	Electrical bistability in a metal-organic framework modulated by reversible crystalline-to-amorphous transformations. <i>Chemical Communications</i> , 2017, 53, 2479-2482.	4.1	35
45	Crystalline, Highly Oriented MOF Thin Film: the Fabrication and Application. <i>Chemical Record</i> , 2017, 17, 518-534.	5.8	34
46	From Lead Iodide to a Radical Form Lead-Iodide Superlattice: High Conductance Gain and Broader Band for Photoconductive Response. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2692-2695.	13.8	34
47	Synergistic photoredox and copper catalysis by diode-like coordination polymer with twisted and polar copper-dye conjugation. <i>Nature Communications</i> , 2020, 11, 5384.	12.8	34
48	A Covalent Organic-Inorganic Hybrid Superlattice Covered with Organic Functional Groups for Highly Sensitive and Selective Gas Sensing. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19710-19714.	13.8	32
49	A novel inorganic-organic hybrid for detection of nitrite anions with extremely high sensitivity and selectivity. <i>Journal of Materials Chemistry</i> , 2012, 22, 16742.	6.7	30
50	Organic -receptor-fully covered few-layer organic-metal chalcogenides for high-performance chemiresistive gas sensing at room temperature. <i>Chemical Communications</i> , 2020, 56, 5366-5369.	4.1	29
51	Comparison of the temperature dependence of optical poling between guest-host and side-chain polymer films. <i>Journal of Applied Physics</i> , 1999, 85, 681-685.	2.5	27
52	A new 3D cupric coordination polymer as chemiresistor humidity sensor: narrow hysteresis, high sensitivity, fast response and recovery. <i>Science China Chemistry</i> , 2017, 60, 1197-1204.	8.2	27
53	Diplex single-crystal-to-single-crystal transformation by different inducement. <i>CrystEngComm</i> , 2013, 15, 2579.	2.6	23
54	Constructing semiconductive crystalline microporous materials by Coulomb interactions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18409-18413.	10.3	23

#	ARTICLE	IF	CITATIONS
55	Tunable electrical conductivity of a new 3D MOFs: Cu-TATAB. <i>Inorganic Chemistry Communication</i> , 2019, 105, 119-124.	3.9	23
56	A hydrophobic semiconducting metal-organic framework assembled from silver chalcogenide wires. <i>Chemical Communications</i> , 2020, 56, 2091-2094.	4.1	22
57	A proton conductor showing an indication of single-ion magnet behavior based on a mononuclear Dy(scp) complex. <i>Journal of Materials Chemistry C</i> , 2021, 9, 481-488.	5.5	21
58	2D metal chalcogenides with surfaces fully covered with an organic promoter for high-performance biomimetic catalysis. <i>Chemical Communications</i> , 2019, 55, 10444-10447.	4.1	19
59	Single-Component MLCT-Active Photodetecting Material Based on a Two-Dimensional Coordination Polymer. <i>CCS Chemistry</i> , 2020, 2, 655-662.	7.8	19
60	Layered Organic Metal Chalcogenides (OMCs): From Bulk to Two-Dimensional Materials. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	18
61	The Synthesis, Crystal and Band Structures, and Properties of the Quaternary Supramolecular Complexes $[\text{Hg}_6\text{Z}_4](\text{MX}_6)_n$ ($\text{Z} = \text{As, Sb}$; $\text{M} = \text{Hg, Cd}$; $\text{X} = \text{Cl, Br, I}$; $n = 0, 0.5, 0.6$). <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 977-984.	2.0	16
62	Boosting Room Temperature Sensing Performances by Atomically Dispersed Pd Stabilized via Surface Coordination. <i>ACS Sensors</i> , 2021, 6, 1103-1110.	7.8	16
63	Atomically Precise Titanium-Oxo Nanotube with Selective Water Adsorption and Semiconductive Behaviors. <i>CCS Chemistry</i> , 2020, 2, 209-215.	7.8	14
64	An air-stable anionic two-dimensional semiconducting metal-thiolate network and its exfoliation into ultrathin few-layer nanosheets. <i>Chemical Communications</i> , 2020, 56, 3645-3648.	4.1	13
65	Porphyrim-Based COF 2D Materials: Variable Modification of Sensing Performances by Post-Metallization. <i>Angewandte Chemie</i> , 0, , .	2.0	13
66	Superprotonic conductivity of Ti-based MOFs with Brønsted acid-base pairs. <i>Inorganica Chimica Acta</i> , 2020, 502, 119317.	2.4	12
67	Ultra-stable 2D cuprofullerene imidazolate polymer as a high-performance visible-light photodetector. <i>Science China Materials</i> , 2021, 64, 1563-1569.	6.3	10
68	Crystalline microporous small molecule semiconductors based on porphyrin for high-performance chemiresistive gas sensing. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12977-12983.	10.3	10
69	Semiconductive 1D nanobelt iodoplumbate hybrid with high humidity response. <i>Inorganic Chemistry Communication</i> , 2018, 93, 42-46.	3.9	9
70	Ferroelectric perovskite-type films with robust in-plane polarization toward efficient room-temperature chemiresistive sensing. <i>Fundamental Research</i> , 2023, 3, 362-368.	3.3	9
71	A Dual-Ligand Porous Coordination Polymer Chemiresistor with Modulated Conductivity and Porosity. <i>Angewandte Chemie</i> , 2020, 132, 178-182.	2.0	8
72	Temperature Induced Interpenetration Suppression of a Couple of Azo-based Isomers with a Flexible Second Ligand. <i>Chinese Journal of Chemistry</i> , 2012, 30, 791-797.	4.9	7

#	ARTICLE	IF	CITATIONS
73	[Ba ₁₃ Sb ₃₆ Cl ₃₄ O ₅₄] ⁸⁺ : high-nuclearity cluster for the assembly of nanocluster-based compounds. <i>Chemical Communications</i> , 2019, 55, 7442-7445.	4.1	7
74	The exceptionally high moisture responsiveness of a new conductive-coordination-polymer based chemiresistive sensor. <i>CrystEngComm</i> , 2021, 23, 3549-3556.	2.6	7
75	A Covalent Organic-Inorganic Hybrid Superlattice Covered with Organic Functional Groups for Highly Sensitive and Selective Gas Sensing. <i>Angewandte Chemie</i> , 2021, 133, 19862-19866.	2.0	7
76	High-Hole-Mobility Metal-Organic Framework as Dopant-Free Hole Transport Layer for Perovskite Solar Cells. <i>Nanoscale Research Letters</i> , 2022, 17, 6.	5.7	7
77	MOF Nanosheet Reconstructed Two-Dimensional Bionic Nanochannel for Protonic Field-Effect Transistors. <i>Angewandte Chemie</i> , 2021, 133, 10019-10023.	2.0	6
78	Fluorescence sensing of nitrophenol explosives using a two-dimensional organic-metal chalcogenide fully covered with functional groups. <i>Chemical Communications</i> , 2022, 58, 4615-4618.	4.1	5
79	MOF-Directed Synthesis of Crystalline Ionic Liquids with Enhanced Proton Conduction. <i>Angewandte Chemie</i> , 2021, 133, 1310-1317.	2.0	4
80	Supercapacitors: Conductive Metal-Organic Framework Nanowire Array Electrodes for High-Performance Solid-State Supercapacitors (<i>Adv. Funct. Mater.</i> 27/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	14.9	3
81	Batteries: Large-Area Preparation of Crack-Free Crystalline Microporous Conductive Membrane to Upgrade High Energy Lithium-Sulfur Batteries (<i>Adv. Energy Mater.</i> 31/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870136.	19.5	3
82	A New Corner-Shared 1D Hybrid Lead Halide: Broad-Band Photoluminescence and Semiconductive Properties. <i>Inorganic Chemistry Communication</i> , 2021, , 109042.	3.9	3
83	Layered Organic Metal Chalcogenides (OMCs): From Bulk to Two-Dimensional Materials. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	3
84	Cascading Photoelectric Detecting and Chemiresistive Gas Sensing Properties of Pb ₅ S ₂ I ₆ Nanowire Mesh for Multi-Factor Accurate Fire Alarm. <i>Small Methods</i> , 0, , 2200470.	8.6	3
85	Innen-Äcktitelbild: Van der Waals Heterostructured MOF-on-MOF Thin Films: Cascading Functionality to Realize Advanced Chemiresistive Sensing (<i>Angew. Chem.</i> 42/2019). <i>Angewandte Chemie</i> , 2019, 131, 15303-15303.	2.0	2
86	Layer-by-Layer Growth of Preferred-Oriented MOF Thin Film on Nanowire Array for High-Performance Chemiresistive Sensing. <i>Angewandte Chemie</i> , 2021, 133, 25962.	2.0	2
87	Functional Linkers for Electron-Conducting MOFs. , 0, , 421-462.		1
88	<i>In situ</i> Alkylation Regulation of the Structure and Properties of Inorganic-Organic Hybrid Perovskite-Like Materials ^{â€} . <i>Acta Chimica Sinica</i> , 2022, 80, 460.	1.4	1
89	Frontispiece: Semiconductive Nanotube Array Constructed from Giant [Pb ^{II} ₁₈ I ₅₄ (I ₂) ₉] Wheel Clusters. <i>Angewandte Chemie - International Edition</i> , 2016, 55, .	13.8	0
90	Covalent Organic Gels: Inorganic Acid-Impregnated Covalent Organic Gels as High-Performance Proton-Conductive Materials at Subzero Temperatures (<i>Adv. Funct. Mater.</i> 32/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	14.9	0

#	ARTICLE	IF	CITATIONS
91	Innentitelbild: Layer-by-Layer Assembled Conductive Metal-Organic Framework Nanofilms for Room-Temperature Chemiresistive Sensing (Angew. Chem. 52/2017). Angewandte Chemie, 2017, 129, 16638-16638.	2.0	0