Jiandong Pang

List of Publications by Year
in descending order

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73 papers	5,576 citations	101543 36 h-index	82547 72 g-index
75 all docs	75 docs citations	75 times ranked	6403 citing authors

#	Article	IF	Citations
1	Stable Metalâ€“Organic Frameworks: Design, Synthesis, and Applications. Advanced Materials, 2018, 30, e1704303.	21.0	1,740
2	A porous metal-organic framework with ultrahigh acetylene uptake capacity under ambient conditions. Nature Communications, 2015, 6, 7575.	12.8	288
3	An Ultrastable and Easily Regenerated Hydrogenâ€Bonded Organic Molecular Framework with Permanent Porosity. Angewandte Chemie - International Edition, 2017, 56, 2101-2104.	13.8	254
4	Retrosynthesis of multi-component metalâ^'organic frameworks. Nature Communications, 2018, 9, 808.	12.8	159
5	Control the Structure of Zr-Tetracarboxylate Frameworks through Steric Tuning. Journal of the American Chemical Society, 2017, 139, 16939-16945.	13.7	153
6	Creating Well-Defined Hexabenzocoronene in Zirconium Metalâ€“Organic Framework by Postsynthetic Annulation. Journal of the American Chemical Society, 2019, 141, 2054-2060.	13.7	148
7	Stable metalâ€“organic frameworks as a host platform for catalysis and biomimetics. Chemical Communications, 2018, 54, 4231-4249.	4.1	137
8	Tailor-Made Pyrazolide-Based Metalâ€“Organic Frameworks for Selective Catalysis. Journal of the American Chemical Society, 2018, 140, 6383-6390.	13.7	124
9	An Unprecedented Pillarâ€Cage Fluorinated Hybrid Porous Framework with Highly Efficient Acetylene Storage and Separation. Angewandte Chemie - International Edition, 2021, 60, 7547-7552.	13.8	120
10	Photosensitizerâ€Anchored 2D MOF Nanosheets as Highly Stable and Accessible Catalysts toward Artemisinin Production. Advanced Science, 2019, 6, 1802059.	11.2	108
11	Stepwise Assembly of Turnâ€on Fluorescence Sensors in Multicomponent Metalâ€“Organic Frameworks for inâ€...Vitro Cyanide Detection. Angewandte Chemie - International Edition, 2020, 59, 9319-9323.	13.8	104
12	Systematic Engineering of Single Substitution in Zirconium Metalâ€“Organic Frameworks toward High-Performance Catalysis. Journal of the American Chemical Society, 2017, 139, 18590-18597.	13.7	102
13	Flexible and Hierarchical Metalâ€“Organic Framework Composites for Highâ€Performance Catalysis. Angewandte Chemie - International Edition, 2018, 57, 8916-8920.	13.8	98
14	An unusual bifunctional Tb-MOF for highly sensitive sensing of Ba²⁺ ions and with remarkable selectivities for CO₂â€“N₂ and CO₂â€“CH₄. Journal of Materials Chemistry A, 2015, 3, 13526-13532.	10.3	91
15	Cageâ€Like Porous Materials with Simultaneous High C₂H₂Storage and Excellent C₂H₂/CO₂Separation Performance. Angewandte Chemie - International Edition, 2021, 60, 10828-10832.	13.8	90
16	Enhancing Pore-Environment Complexity Using a Trapezoidal Linker: Toward Stepwise Assembly of Multivariate Quinary Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 12328-12332.	13.7	78
17	Ligand-Directed Conformational Control over Porphyrinic Zirconium Metalâ€“Organic Frameworks for Size-Selective Catalysis. Journal of the American Chemical Society, 2021, 143, 12129-12137.	13.7	73
18	Precisely Embedding Active Sites into a Mesoporous Zr-Framework through Linker Installation for High-Efficiency Photocatalysis. Journal of the American Chemical Society, 2020, 142, 15020-15026.	13.7	71

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19	Tuning the Ionicity of Stable Metalâ€“Organic Frameworks through Ionic Linker Installation. Journal of the American Chemical Society, 2019, 141, 3129-3136.	13.7	70
20	Metalâ€“Organic Frameworks Based on Group 3 and 4 Metals. Advanced Materials, 2020, 32, e2004414.	21.0	69
21	Polymeric double-anion templated Er₄₈nanotubes. Chemical Communications, 2014, 50, 1113-1115.	4.1	66
22	An Ultrastable and Easily Regenerated Hydrogenâ€Bonded Organic Molecular Framework with Permanent Porosity. Angewandte Chemie, 2017, 129, 2133-2136.	2.0	66
23	PCN-250 under Pressure: Sequential Phase Transformation and the Implications for MOF Densification. Joule, 2017, 1, 806-815.	24.0	65
24	Flexible Zirconium MOFs as Bromineâ€Nanocontainers for Bromination Reactions under Ambient Conditions. Angewandte Chemie - International Edition, 2017, 56, 14622-14626.	13.8	65
25	Cooperative Sieving and Functionalization of Zr Metalâ€“Organic Frameworks through Insertion and Post-Modification of Auxiliary Linkers. ACS Applied Materials & Interfaces, 2019, 11, 22390-22397.	8.0	60
26	Visualizing the Dynamics of Temperatureâ€•and Solventâ€Responsive Soft Crystals. Angewandte Chemie - International Edition, 2016, 55, 7478-7482.	13.8	59
27	Coexistence of cages and one-dimensional channels in a porous MOF with high H2 and CH4 uptakes. Chemical Communications, 2014, 50, 2834.	4.1	55
28	Stable Metalâ€“Organic Frameworks: Stable Metalâ€“Organic Frameworks: Design, Synthesis, and Applications (Adv. Mater. 37/2018). Advanced Materials, 2018, 30, 1870277.	21.0	55
29	Visible-light harvesting pyrene-based MOFs as efficient ROS generators. Chemical Science, 2019, 10, 8455-8460.	7.4	55
30	Stepwise Construction of Extra-Large Heterometallic Calixarene-Based Cages. Inorganic Chemistry, 2015, 54, 3183-3188.	4.0	53
31	Self-Assembly Syntheses, Structural Characterization, and Luminescent Properties of Lanthanide Coordination Polymers Constructed by Three Triazole-Carboxylate Ligands. Crystal Growth and Design, 2016, 16, 2266-2276.	3.0	51
32	Controlled Orthogonal Selfâ€Assembly of Heterometalâ€Decorated Coordination Cages. Chemistry - A European Journal, 2016, 22, 17345-17350.	3.3	49
33	Precise Spatialâ€Designed Metalâ€Organicâ€Framework Nanosheets for Efficient Energy Transfer and Photocatalysis. Angewandte Chemie - International Edition, 2021, 60, 27258-27263.	13.8	46
34	Visualizing the Dynamics of Temperatureâ€•and Solventâ€Responsive Soft Crystals. Angewandte Chemie, 2016, 128, 7604-7608.	2.0	44
35	Functionalization of Zirconiumâ€Based Metalâ€“Organic Layers with Tailored Pore Environments for Heterogeneous Catalysis. Angewandte Chemie - International Edition, 2020, 59, 18224-18228.	13.8	44
36	Structural variability, unusual thermochromic luminescence and nitrobenzene sensing properties of five Zn(<scp>ii</scp>) coordination polymers assembled from a terphenyl-hexacarboxylate ligand. CrystEngComm, 2015, 17, 3829-3837.	2.6	43

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37	A mesoporous NNN-pincer-based metalâ€“organic framework scaffold for the preparation of noble-metal-free catalysts. Chemical Communications, 2019, 55, 2023-2026.	4.1	38
38	Fluorescence Enhancement in the Solid State by Isolating Perylene Fluorophores in Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2020, 12, 26727-26732.	8.0	36
39	Interior Decoration of Stable Metalâ€“Organic Frameworks. Langmuir, 2018, 34, 13795-13807.	3.5	34
40	A water-stable 3D Eu-MOF based on a metallacyclodimeric secondary building unit for sensitive fluorescent detection of acetone molecules. CrystEngComm, 2019, 21, 321-328.	2.6	31
41	Solvent-Assisted, Thermally Triggered Structural Transformation in Flexible Mesoporous Metalâ€“Organic Frameworks. Chemistry of Materials, 2019, 31, 8787-8793.	6.7	30
42	Rigid Ladder-Type Porous Polymer Networks for Entropically Favorable Gas Adsorption. , 2020, 2, 49-54.		30
43	Bridging different Co₄â€“calix[4]arene building blocks into grids, cages and 2D polymers with chiral camphoric acid. CrystEngComm, 2015, 17, 1750-1753.	2.6	29
44	An Unprecedented Pillarâ€Cage Fluorinated Hybrid Porous Framework with Highly Efficient Acetylene Storage and Separation. Angewandte Chemie, 2021, 133, 7625-7630.	2.0	26
45	Azobenzene Decorated NbO-Type Metalâ€“Organic Framework for High-Capacity Storage of Energy Gases. Inorganic Chemistry, 2019, 58, 11983-11987.	4.0	24
46	Structural tuning of zincâ€“porphyrin frameworks via auxiliary nitrogen-containing ligands towards selective adsorption of cationic dyes. Chemical Communications, 2019, 55, 6527-6530.	4.1	23
47	Cageâ€Like Porous Materials with Simultaneous High C 2 H 2 Storage and Excellent C 2 H 2 /CO 2 Separation Performance. Angewandte Chemie, 2021, 133, 10923-10927.	2.0	23
48	Facile Fabrication of a Multifunctional Metalâ€“Organic Framework-based Sensor Exhibiting Exclusive Solvochromic Behaviors toward Ketone Molecules. ACS Applied Materials & Interfaces, 2019, 11, 8227-8233.	8.0	22
49	Flexible and Hierarchical Metalâ€“Organic Framework Composites for Highâ€Performance Catalysis. Angewandte Chemie, 2018, 130, 9054-9058.	2.0	18
50	Stepwise Assembly of Turnâ€on Fluorescence Sensors in Multicomponent Metalâ€“Organic Frameworks for inâ€…Vitro Cyanide Detection. Angewandte Chemie, 2020, 132, 9405-9409.	2.0	18
51	Synthesis and characterization of decanuclear Ln(III) cluster of mixed calix[8]arene-phosphonate ligands (Ln=Pr, Nd). Inorganic Chemistry Communication, 2015, 54, 34-37.	3.9	17
52	Alkali-Metal-Templated Assembly of Two High-Nuclearity Cobalt Clusters Based on Thiacalix[4]arene. Crystal Growth and Design, 2014, 14, 5865-5870.	3.0	16
53	SO₄^{2â^’} anion directed hexagonal-prismatic cages via cooperative Câ€“Hâ‹¯O hydrogen bonds. Chemical Science, 2014, 5, 4163-4166.	7.4	16
54	A high-connected self-penetrating network supported by pentanuclear cobalt(II) secondary building units. Inorganic Chemistry Communication, 2013, 38, 92-95.	3.9	15

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55	Conformation driven in situ interlock: from discrete metallocycles to infinite polycatenanes. Chemical Communications, 2015, 51, 13706-13709.	4.1	15
56	Self-assembly of two high-nuclearity manganese calixarene-phosphonate clusters: diamond-like Mn₁₆ and drum-like Mn₁₄. RSC Advances, 2015, 5, 33579-33585.	3.6	15
57	Compositional Engineering of Co(II)MOF/Carbon-Based Overall Water Splitting Electrocatalysts: From Synergistic Effects to Structureâ€“Activity Relationships. Crystal Growth and Design, 2022, 22, 2775-2792.	3.0	15
58	An ultra-stable microporous supramolecular framework with highly selective adsorption and separation of water over ethanol. Nano Research, 2021, 14, 2584-2588.	10.4	14
59	Flexible Zirconium MOFs as Bromineâ€Nanocontainers for Bromination Reactions under Ambient Conditions. Angewandte Chemie, 2017, 129, 14814-14818.	2.0	13
60	Thermodynamically Controlled Linker Installation in Flexible Zirconium Metalâ€“Organic Frameworks. Crystal Growth and Design, 2019, 19, 2069-2073.	3.0	13
61	Temperature-Controlled Degree of Interpenetration in a Single-Crystal-to-Single-Crystal Transformation within Two Co(II)-Triazole Frameworks. Inorganic Chemistry, 2019, 58, 18-21.	4.0	13
62	Syntheses, structures, luminescence and magnetic properties of three high-nuclearity neodymium compounds based on mixed sulfonylcalix[4]arene-phosphonate ligands. CrystEngComm, 2016, 18, 4921-4928.	2.6	12
63	Two microporous metalâ€“organic frameworks constructed from trinuclear cobalt(<scp>ii</scp>) and cadmium(<scp>ii</scp>) cluster subunits. CrystEngComm, 2016, 18, 2239-2243.	2.6	11
64	Ligand Induced Double-Chair Conformation Ln₁₂ Nanoclusters Showing Multifunctional Magnetic and Proton Conductive Properties. Inorganic Chemistry, 2022, 61, 3690-3696.	4.0	8
65	Fabrication of a Stable Europium-Based Luminescent Sensor for Fast Detection of Urinary 1-Hydroxypyrene Constructed from a Tetracarboxylate Ligand. Inorganic Chemistry, 2021, 60, 19189-19196.	4.0	8
66	Functionalization of Zirconiumâ€Based Metalâ€“Organic Layers with Tailored Pore Environments for Heterogeneous Catalysis. Angewandte Chemie, 2020, 132, 18381-18385.	2.0	7
67	Tuning the Structure of Fe-Tetracarboxylate Frameworks Through Linker-Symmetry Reduction. CCS Chemistry, 2021, 3, 1701-1709.	7.8	7
68	Precise Spatialâ€Designed Metalâ€Organicâ€Framework Nanosheets for Efficient Energy Transfer and Photocatalysis. Angewandte Chemie, 2021, 133, 27464-27469.	2.0	7
69	Photo Switchable Two-step Photochromism in a Series of Ln-Phosphonate(Ln=Dy, Gd, Tb, Y) Dinuclear Complexes. Chemical Research in Chinese Universities, 2022, 38, 58-66.	2.6	6
70	Ligand Modified and Light Switched On/Off Single-Chain Magnets of {Fe ₂ Co} Coordination Polymers via Metal-to-Metal Charge Transfer. CCS Chemistry, 2023, 5, 865-875.	7.8	6
71	Synthesis, Characterization and Crystal Structure of N,Nâ€²-di[(E)-1-(2-hydoxyphenyl)methylidene]-2,6-naphthalenedicarbohydrazide. Journal of Chemical Crystallography, 2012, 42, 271-275.	1.1	3
72	Metal-Organic Frameworks: Photosensitizer-Anchored 2D MOF Nanosheets as Highly Stable and Accessible Catalysts toward Artemisinin Production (Adv. Sci. 11/2019). Advanced Science, 2019, 6, 1970064.	11.2	3

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73	A thermally stable pcu network based on ferromagnetic dinuclear Ni(II) units. Journal of Molecular Structure, 2014, 1058, 272-276.	3.6	0