

# Junfeng Bai

## List of Publications by Year in descending order

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96  
papers

6,465  
citations

53794

45  
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80  
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100  
all docs

100  
docs citations

100  
times ranked

4903  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, structure and highly selective C <sub>3</sub> H <sub>8</sub> /CH <sub>4</sub> and C <sub>2</sub> H <sub>6</sub> /CH <sub>4</sub> adsorption of a (4,8)-c ternary <i>flu</i> -metal-organic framework based upon both [Sc <sub>4</sub> O <sub>2</sub> (COO) <sub>8</sub> ] and [Cu <sub>4</sub> OCl <sub>6</sub> ] clusters. <i>CrystEngComm</i> , 2022, 24, 2288-2292.	2.6	6
2	Anion Regulates Topological Porous Coordination Polymers into the Acetylene Trap. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 13550-13559.	8.0	14
3	Synthesis, structure and high methane storage of pure D6R Yb(Y) nonanuclear cluster-based zeolite-like metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14795-14798.	10.3	11
4	Modifying a partial <i>sql</i> layer-based (3,3,3,3,4,4)-c topological MOF by substitution of OH <sup>+</sup> with Cl <sup>+</sup> and its highly selective adsorption of C <sub>2</sub> hydrocarbons over CH <sub>4</sub> . <i>Dalton Transactions</i> , 2021, 50, 4840-4847.	3.3	7
5	A porous amide-functionalized <i>pto</i> -type MOF exhibiting selective capture and separation of cationic MB dye. <i>Journal of Coordination Chemistry</i> , 2021, 74, 241-251.	2.2	3
6	Ligand-Conformer-Induced Formation of Zirconium-Organic Framework for Methane Storage and MTO Product Separation. <i>Angewandte Chemie</i> , 2021, 133, 16657-16664.	2.0	5
7	Ligand-Conformer-Induced Formation of Zirconium-Organic Framework for Methane Storage and MTO Product Separation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16521-16528.	13.8	29
8	New Reticular Chemistry of the Rod Secondary Building Unit: Synthesis, Structure, and Natural Gas Storage of a Series of Three-Way Rod Amide-Functionalized Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021, 143, 12202-12211.	13.7	44
9	Formation of a N/O/F-Rich and Rooflike Cluster-Based Highly Stable Cu(I/II)-MOF for Promising Pipeline Natural Gas Upgrading by the Recovery of Individual C <sub>3</sub> H <sub>8</sub> and C <sub>2</sub> H <sub>6</sub> Gases. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 40713-40723.	8.0	15
10	Tuning Open Metal Site-Free <i>ncb</i> Type of Metal-Organic Frameworks for Simultaneously High Gravimetric and Volumetric Methane Storage Working Capacities. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 44956-44963.	8.0	13
11	Double-Walled Zn <sub>36</sub> @Zn <sub>104</sub> Multicomponent Senary Metal-Organic Polyhedral Framework and Its Isoreticular Evolution. <i>Journal of the American Chemical Society</i> , 2021, 143, 17942-17946.	13.7	11
12	Selective CO <sub>2</sub> or CH <sub>4</sub> adsorption of two anionic bcu-MOFs with two different counterions: experimental and simulation studies. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 4631-4639.	6.0	7
13	Single-Crystal Synthesis and Diverse Topologies of Hexanuclear Ce <sup>IV</sup> -Based Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2020, 59, 11233-11237.	4.0	15
14	Molecular Spheres Inspired Self-Assembly of Hydrolytically Stable Mesoporous Zirconium-Based Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2020, 20, 8015-8020.	3.0	4
15	Formation of a mixed-valence Cu( <i>i</i> )/Cu( <i>ii</i> ) metal-organic framework with the full light spectrum and high selectivity of CO <sub>2</sub> photoreduction into CH <sub>4</sub> . <i>Chemical Science</i> , 2020, 11, 10143-10148.	7.4	40
16	A low symmetry cluster meets a low symmetry ligand to sharply boost MOF thermal stability. <i>Chemical Communications</i> , 2020, 56, 11985-11988.	4.1	19
17	Pure-Supramolecular-Linker Approach to Highly Connected Metal-Organic Frameworks for CO <sub>2</sub> Capture. <i>Journal of the American Chemical Society</i> , 2019, 141, 14539-14543.	13.7	47
18	Solvents-Dependent Formation of Three MOFs from the Fe <sub>3</sub> O Cluster and 3,3,5,5-Tetraphenyltetracarboxylic Acid and Their Selective CO <sub>2</sub> Adsorption. <i>Inorganic Chemistry</i> , 2019, 58, 13836-13842.	4.0	17

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19	Stable Amide-Functionalized Metal-Organic Framework with Highly Selective CO <sub>2</sub> Adsorption. <i>Inorganic Chemistry</i> , 2019, 58, 2729-2735.	4.0	51
20	Syntheses, Structures and Sorption Properties of Three Isorecticular Trinuclear Indium-Based Amide-Functionalized Metal-Organic Frameworks. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3603-3610.	3.3	9
21	Constructing and finely tuning the CO <sub>2</sub> traps of stable and various-pore-containing MOFs towards highly selective CO <sub>2</sub> capture. <i>Chemical Communications</i> , 2019, 55, 3477-3480.	4.1	29
22	Amide-functionalized metal-organic frameworks: Syntheses, structures and improved gas storage and separation properties. <i>Coordination Chemistry Reviews</i> , 2019, 378, 2-16.	18.8	213
23	A multi-dye@MOF composite boosts highly efficient photodegradation of an ultra-stubborn dye reactive blue 21 under visible-light irradiation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2148-2156.	10.3	40
24	Higher Symmetry Multinuclear Clusters of Metal-Organic Frameworks for Highly Selective CO <sub>2</sub> Capture. <i>Journal of the American Chemical Society</i> , 2018, 140, 17825-17829.	13.7	98
25	Development and simulation evaluation of a magnetorheological elastomer isolator for transformer vibration control. , 2018, , .		4
26	A dual-functional indium-organic framework towards organic pollutant decontamination via physically selective adsorption and chemical photodegradation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14182-14189.	10.3	80
27	A Distorted [Mn <sub>2</sub> (COO) <sub>4</sub> N <sub>2</sub> ] Cluster Based Metal-Organic Framework with (3,3,6) Topology and Selective Adsorption of CO <sub>2</sub> . <i>Crystal Growth and Design</i> , 2017, 17, 2223-2227.	3.0	17
28	A (3,6)-Connected Metal-Organic Framework with <i>pyr</i> Topology and Highly Selective CO <sub>2</sub> Adsorption. <i>Crystal Growth and Design</i> , 2017, 17, 16-18.	3.0	16
29	Fine Tuning of MOF-505 Analogues To Reduce Low-Pressure Methane Uptake and Enhance Methane Working Capacity. <i>Angewandte Chemie</i> , 2017, 129, 11584-11588.	2.0	33
30	Fine Tuning of MOF-505 Analogues To Reduce Low-Pressure Methane Uptake and Enhance Methane Working Capacity. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11426-11430.	13.8	119
31	Time-delay analysis of a magnetorheological elastomer actuator for semi-active control. , 2017, , .		4
32	Self-tuning fuzzy control for time-varying excitation vibration isolation system with magnetorheological elastomer actuator. , 2017, , .		0
33	The Utilization of Amide Groups To Expand and Functionalize Metal-Organic Frameworks Simultaneously. <i>Chemistry - A European Journal</i> , 2016, 22, 6277-6285.	3.3	83
34	Synthesis, structures, and luminescence of two 2-D microporous metal-organic frameworks in the zinc (cadmium)-dicarboxylate-imidazolate system. <i>Journal of Coordination Chemistry</i> , 2016, 69, 1819-1827.	2.2	10
35	Preparation of dual-function starch-based flocculants for the simultaneous removal of turbidity and inhibition of <i>Escherichia coli</i> in water. <i>Water Research</i> , 2016, 98, 128-137.	11.3	73
36	Finely tuning MOFs towards high performance in C <sub>2</sub> H <sub>2</sub> storage: synthesis and properties of a new MOF-505 analogue with an inserted amide functional group. <i>Chemical Communications</i> , 2016, 52, 7241-7244.	4.1	131

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37	Functionalization of Microporous Lanthanide-Based Metal-Organic Frameworks by Dicarboxylate Ligands with Methyl-Substituted Thieno[2,3- <i>b</i> ]thiophene Groups: Sensing Activities and Magnetic Properties. <i>Inorganic Chemistry</i> , 2016, 55, 5139-5151.	4.0	117
38	Two New (3,6)-Connected MOFs with <i>12</i> Topology and High CH <sub>4</sub> Uptake. <i>Crystal Growth and Design</i> , 2016, 16, 6156-6159.	3.0	8
39	Solvent- and metal-directed lanthanide-organic frameworks based on pamoic acid: observation of slow magnetization relaxation, magnetocaloric effect and luminescent sensing. <i>Science China Chemistry</i> , 2016, 59, 948-958.	8.2	31
40	Highly thermostable lanthanide( <i>III</i> ) MOFs constructed from 4,4'-s-triazine-2,4,6-triyl-tribenzoate ligand: synthesis, structure, and tunable white-light emission. <i>CrystEngComm</i> , 2016, 18, 7728-7736.	2.6	28
41	New <i>12</i> -Type Metal-Organic Frameworks Decorated with Acylamide Groups for Efficient Carbon Dioxide Capture and Chemical Fixation from Raw Power Plant Flue Gas. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 31746-31756.	8.0	81
42	A S <sub>4</sub> N <sub>4</sub> -like [Co <sub>4</sub> ( $\mu_4$ -Cl) <sub>4</sub> ] based metal-organic framework with <i>12</i> topology and selective CO <sub>2</sub> uptake. <i>CrystEngComm</i> , 2016, 18, 9003-9006.	2.6	17
43	Synthesis and structure of color tunable and white-light emitting lanthanide metal-organic framework materials constructed from conjugated 1,4-butadiynebenzene-3,5-tetracarboxylate ligand. <i>RSC Advances</i> , 2016, 6, 103714-103723.	3.6	21
44	The Utilization of Amide Groups to Expand and Functionalize Metal-Organic Frameworks Simultaneously. <i>Chemistry - A European Journal</i> , 2016, 22, 6129-6129.	3.3	2
45	Finely tuning MOFs towards high-performance post-combustion CO <sub>2</sub> capture materials. <i>Chemical Communications</i> , 2016, 52, 443-452.	4.1	131
46	Assembly of a series of <i>d</i> <sup>10</sup> coordination polymers of pamoic acid through a mixed-ligand synthetic strategy: syntheses, structures and fluorescence properties. <i>CrystEngComm</i> , 2014, 16, 10658-10673.	2.6	64
47	A nitro-decorated NbO-type metal-organic framework with a highly selective CO <sub>2</sub> uptake and CH <sub>4</sub> storage capacity. <i>CrystEngComm</i> , 2014, 16, 6287-6290.	2.6	61
48	A highly porous agw-type metal-organic framework and its CO <sub>2</sub> and H <sub>2</sub> adsorption capacity. <i>CrystEngComm</i> , 2013, 15, 9348.	2.6	32
49	Formation of a Metal-Organic Framework with High Surface Area and Gas Uptake by Breaking Edges Off Truncated Cuboctahedral Cages. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11282-11285.	13.8	56
50	Fine-Tuning Pore Size by Shifting Coordination Sites of Ligands and Surface Polarization of Metal-Organic Frameworks To Sharply Enhance the Selectivity for CO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2013, 135, 562-565.	13.7	329
51	Fusing High Symmetric Coordination Polyhedrons of Cu <sub>6</sub> (PIP) <sub>4</sub> , Cu <sub>12</sub> (PIP) <sub>8</sub> , and Cu <sub>12</sub> (PIP) <sub>24</sub> into an Unprecedented Porous MOF: Synthesis, Structure, and Its Remarkable CO <sub>2</sub> Selectivity. <i>Crystal Growth and Design</i> , 2013, 13, 24-26.	3.0	29
52	Porous NbO-type metal-organic framework with inserted acylamide groups exhibiting highly selective CO <sub>2</sub> capture. <i>CrystEngComm</i> , 2013, 15, 3517.	2.6	99
53	Positional isomeric and substituent effect on the assemblies of a series of <i>d</i> <sup>10</sup> coordination polymers based upon unsymmetric tricarboxylate acids and nitrogen-containing ligands. <i>CrystEngComm</i> , 2013, 15, 5476.	2.6	47
54	High H <sub>2</sub> and CH <sub>4</sub> Adsorption Capacity of a Highly Porous (2,3,4)-Connected Metal-Organic Framework. <i>Crystal Growth and Design</i> , 2013, 13, 2252-2255.	3.0	39

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55	A Series of Four-Connected Entangled Metal-Organic Frameworks Assembled from Pamoic Acid and Pyridine-Containing Ligands: Interpenetrating, Self-Penetrating, and Supramolecular Isomerism. <i>Crystal Growth and Design</i> , 2012, 12, 79-92.	3.0	66
56	High and selective CO <sub>2</sub> capture by two mesoporous acylamide-functionalized rht-type metal-organic frameworks. <i>Chemical Communications</i> , 2012, 48, 7025.	4.1	174
57	Highly selective CO <sub>2</sub> capture of an agw-type metal-organic framework with inserted amides: experimental and theoretical studies. <i>Chemical Communications</i> , 2012, 48, 3058.	4.1	166
58	Water Stable Metal-Organic Framework Evolutionally Formed from a Flexible Multidentate Ligand with Acylamide Groups for Selective CO <sub>2</sub> Adsorption. <i>Crystal Growth and Design</i> , 2012, 12, 1081-1084.	3.0	67
59	Synthesis, structure, novel topology and reversible crystal-to-amorphous transformation of calcium coordination polymers from a flexible tripodal acid with additional amide groups. <i>Inorganica Chimica Acta</i> , 2012, 383, 305-311.	2.4	5
60	Synthesis, crystal structures, and photoluminescence of two novel zinc coordination polymers built from 2,2'-(ethyne-1,2-diyl)diterephthalate. <i>Inorganic Chemistry Communication</i> , 2012, 17, 173-176.	3.9	3
61	Enhanced CO <sub>2</sub> Binding Affinity of a High-Uptake <i>rht</i> -Type Metal-Organic Framework Decorated with Acylamide Groups. <i>Journal of the American Chemical Society</i> , 2011, 133, 748-751.	13.7	722
62	Temperature-dependent supramolecular isomerism in three zinc coordination polymers with pamoic acid and 1,4-bis(imidazol-1-ylmethyl)-benzene. <i>CrystEngComm</i> , 2011, 13, 5313.	2.6	60
63	A hierarchical supra-nanostructure of HKUST-1 featuring enhanced H <sub>2</sub> adsorption enthalpy and higher mesoporosity. <i>CrystEngComm</i> , 2011, 13, 3314.	2.6	48
64	Controlling the shifting degree of interpenetrated metal-organic frameworks by modulator and temperature and their hydrogen adsorption properties. <i>Chemical Communications</i> , 2011, 47, 2556.	4.1	56
65	Metal-dependent dimensionality in coordination polymers of a semi-rigid dicarboxylate ligand with additional amide groups: Syntheses, structures and luminescent properties. <i>Inorganica Chimica Acta</i> , 2010, 363, 3172-3177.	2.4	31
66	Synthesis and Enhanced H <sub>2</sub> Adsorption Properties of a Mesoporous Nanocrystal of MOF-5: Controlling Nano/Mesostructures of MOFs To Improve Their H <sub>2</sub> Heat of Adsorption. <i>Chemistry - A European Journal</i> , 2010, 16, 13049-13052.	3.3	69
67	Topology diversity and reversible crystal-to-amorphous transformation properties of 3D cobalt coordination polymers from a series of 1D rodlike dipyriddy-containing building blocks and a flexible tripodal acid with additional amide groups. <i>CrystEngComm</i> , 2010, 12, 70-72.	2.6	27
68	pH-Controlled change of the coordination modes of the highly symmetrical multitopic ligand and metal-oxygen arrays for constructing coordination assemblies. <i>CrystEngComm</i> , 2010, 12, 49-51.	2.6	43
69	Hierarchically Micro- and Mesoporous Coordination Polymer Nanostructures with High Adsorption Performance. <i>Crystal Growth and Design</i> , 2010, 10, 2451-2454.	3.0	53
70	Size-controlled synthesis and magnetic properties of NiFe <sub>2</sub> O <sub>4</sub> hollow nanospheres via a gel-assistant hydrothermal route. <i>Journal of Alloys and Compounds</i> , 2010, 491, L33-L38.	5.5	110
71	Large-scale synthesis of uniform spinel ferrite nanoparticles from hydrothermal decomposition of trinuclear heterometallic oxo-centered acetate clusters. <i>Materials Letters</i> , 2009, 63, 1099-1101.	2.6	64
72	Novel symmetrical coraloid Cu 3D superstructures: Solid-state synthesis from a Cu-carboxylate MOF and their in-situ thermal conversion. <i>Journal of Solid State Chemistry</i> , 2009, 182, 2298-2306.	2.9	52

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73	A new MOF-505 analog exhibiting high acetylene storage. <i>Chemical Communications</i> , 2009, , 7551.	4.1	231
74	An unprecedented nanoscale trilayered polythreading coordination array hierarchically formed from 2D square grid networks and induced by protonated 1,2-bis(4-pyridyl)ethane. <i>CrystEngComm</i> , 2009, 11, 271-273.	2.6	46
75	Temperature Controlled Reversible Change of the Coordination Modes of the Highly Symmetrical Multitopic Ligand To Construct Coordination Assemblies: Experimental and Theoretical Studies. <i>Journal of the American Chemical Society</i> , 2008, 130, 7778-7779.	13.7	254
76	Crystal Structure of (S)-1-(4-Chlorobenzoyl)-3-(1-hydroxy-3-phenylpropan-2-yl)thiourea. <i>Analytical Sciences: X-ray Structure Analysis Online</i> , 2008, 24, X59-X60.	0.1	0
77	Unprecedented interweaving of single-helical and unequal double-helical chains into chiral metal-organic open frameworks with multiwalled tubular structures. <i>Chemical Communications</i> , 2007, , 2293-2295.	4.1	142
78	An unprecedented nanoporous and fluorescent supramolecular framework with an SrAl <sub>2</sub> topology controllably synthesized from a flexible ditopic acid. <i>Chemical Communications</i> , 2007, , 4416.	4.1	41
79	Versatile lanthanide coordination assemblies due to the synergistic effect of lanthanide contraction and flexibility of a flexible tricarboxylate ligand. <i>CrystEngComm</i> , 2007, 9, 1051.	2.6	63
80	Metal disordering Cu(ii) supramolecular polymers constructed from a tripodal ligand possessing two different functional groups. <i>CrystEngComm</i> , 2007, 9, 228.	2.6	22
81	Unprecedented 4264 Topological 2-D Rare-Earth Coordination Polymers from a Flexible Tripodal Acid with Additional Amide Groups. <i>Inorganic Chemistry</i> , 2007, 46, 8451-8453.	4.0	85
82	Synthesis, Structure, Water-Induced Reversible Crystal-to-Amorphous Transformation, and Luminescence Properties of Novel Cationic Spacer-Filled 3D Transition Metal Supramolecular Frameworks from N,N,N'-Tris(carboxymethyl)-1,3,5-benzenetricarboxamide. <i>Crystal Growth and Design</i> , 2007, 7, 890-894.	3.0	111
83	Novel Alternating Ferro-Ferromagnetic Two-Dimensional (4,4) and Photoluminescent Three-Dimensional Interpenetrating PtS-Type Coordination Networks Constructed from a New Flexible Tripodal Ligand as a Four-Connected Node. <i>Crystal Growth and Design</i> , 2007, 7, 747-754.	3.0	102
84	Synthesis, structures and properties of nickel(ii) and cobalt(ii) metal-organic frameworks based on a flexible tricarboxylate ligand H <sub>3</sub> TTC and different pyridyl-containing ligands. <i>CrystEngComm</i> , 2007, 9, 1084.	2.6	98
85	A supramolecular assembly of {Fe <sub>10</sub> } molecular wheels with tubular structures. <i>CrystEngComm</i> , 2006, 8, 384.	2.6	13
86	Synthesis, Structure, Luminescence, and Water Induced Reversible Crystal-to-Amorphous Transformation Properties of Lanthanide(III) Benzene-1,4-dioxyacetates with a Three-Dimensional Framework. <i>Crystal Growth and Design</i> , 2006, 6, 1221-1226.	3.0	63
87	Crystal Structure of trans-Bis(2-benzamido)oxazoline nickel(II). <i>Analytical Sciences: X-ray Structure Analysis Online</i> , 2006, 22, X119-X120.	0.1	1
88	Crystal Structure of Bis((-)-2-benzamido-4-phenyl-2-oxazoline)copper(II). <i>Analytical Sciences: X-ray Structure Analysis Online</i> , 2006, 22, X153-X154.	0.1	0
89	Synthesis, structures and properties of alkaline earth metal benzene-1,4-dioxyacetates with three-dimensional hybrid networks. <i>Inorganica Chimica Acta</i> , 2006, 359, 3257-3263.	2.4	45
90	2D and 3D Cadmium(II) Coordination Polymers from a Flexible Tripodal Ligand of 1,3,5-Tris(carboxymethoxy)benzene and Bidentate Pyridyl-Containing Ligands with Three-, Eight- and Ten-Connected Topologies. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 3041-3053.	2.0	99

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91	Luminescent Open-Framework Antiferromagnet " Hydrothermal Syntheses, Structures, and Luminescent and Magnetic Properties of Two Novel Coordination Polymers: [Zn(pdoa)(bipy)] <sub>n</sub> and {[Mn(pdoa)(bipy)](bipy)} <sub>n</sub> [pdoa = 2,2-(1,3-phenylenedioxy)bis(acetate); bipy = 4,4-bipyridine]. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 3659-3666.	2.0	37
92	Synthesis, structure and optical limiting properties of a new S-methylated derivative of a nickel dithiolene, bis[2-ethoxycarbonylsulfanyl-1,2-bis (methylthio)-1-ethenethiolato]nickel. <i>Journal of Coordination Chemistry</i> , 2006, 59, 421-427.	2.2	2
93	Fullerene-Like Nanoballs Formed by Pentaphosphaferrocene and CuBr. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 4023-4026.	2.0	102
94	Synthesis of Inorganic Fullerene-Like Molecules. <i>Science</i> , 2003, 300, 781-783.	12.6	343
95	P2-Ligand Complexes as Building Blocks for the Formation of One-Dimensional Polymers This work was supported by the Deutsche Forschungsgemeinschaft and the Fonds der Chemischen Industrie.. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 783.	13.8	90
96	Pentaphosphaferrocene as a Linking Unit for the Formation of One- and Two-Dimensional Polymers. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1737-1740.	13.8	141