Jianling Zhang

List of Publications by Year
in descending order

135 papers	6,604 citations	61984 43 h-index	74163 75 g-index
146 all docs	146 docs citations	146 times ranked	7766 citing authors

#	Article	IF	Citations
1	Microemulsions with ionic liquid polar domains. Physical Chemistry Chemical Physics, 2004, 6, 2914.	2.8	332
2	Metalâ€“Organic Framework Nanospheres with Wellâ€Ordered Mesopores Synthesized in an Ionic Liquid/CO₂/Surfactant System. Angewandte Chemie - International Edition, 2011, 50, 636-639.	13.8	280
3	Highly Electrocatalytic Ethylene Production from CO₂ on Nanodefective Cu Nanosheets. Journal of the American Chemical Society, 2020, 142, 13606-13613.	13.7	260
4	Manganese acting as a high-performance heterogeneous electrocatalyst in carbon dioxide reduction. Nature Communications, 2019, 10, 2980.	12.8	235
5	Sonochemical Formation of Single-Crystalline Gold Nanobelts. Angewandte Chemie - International Edition, 2006, 45, 1116-1119.	13.8	226
6	Highly efficient electrochemical reduction of CO₂ to CH₄ in an ionic liquid using a metalâ€“organic framework cathode. Chemical Science, 2016, 7, 266-273.	7.4	225
7	Highly Efficient Electroreduction of CO₂ to Methanol on Palladiumâ€“Copper Bimetallic Aerogels. Angewandte Chemie - International Edition, 2018, 57, 14149-14153.	13.8	222
8	Efficient SO2 absorption by renewable choline chlorideâ€“glycerol deep eutectic solvents. Green Chemistry, 2013, 15, 2261.	9.0	215
9	Highly mesoporous metalâ€“organic framework assembled in a switchable solvent. Nature Communications, 2014, 5, 4465.	12.8	177
10	MIL-125-NH₂@TiO₂ Coreâ€“Shell Particles Produced by a Post-Solvothermal Route for High-Performance Photocatalytic H₂ Production. ACS Applied Materials & Interfaces, 2018, 10, 16418-16423.	8.0	143
11	Surfactant-directed assembly of mesoporous metalâ€“organic framework nanoplates in ionic liquids. Chemical Communications, 2012, 48, 8688.	4.1	120
12	Ionic liquid accelerates the crystallization of Zr-based metalâ€“organic frameworks. Nature Communications, 2017, 8, 175.	12.8	111
13	Ru nanoparticles immobilized on metalâ€“organic framework nanorods by supercritical CO2-methanol solution: highly efficient catalyst. Green Chemistry, 2011, 13, 2078.	9.0	108
14	Photocatalytic CO₂ Transformation to CH₄ by Ag/Pd Bimetals Supported on N-Doped TiO₂ Nanosheet. ACS Applied Materials & Interfaces, 2018, 10, 24516-24522.	8.0	99
15	Solvent determines the formation and properties of metalâ€“organic frameworks. RSC Advances, 2015, 5, 37691-37696.	3.6	95
16	In situ dual doping for constructing efficient CO2-to-methanol electrocatalysts. Nature Communications, 2022, 13, 1965.	12.8	84
17	Fabrication and characterization of magnetic carbon nanotube composites. Journal of Materials Chemistry, 2005, 15, 4497.	6.7	81
18	Recovery of Silver Nanoparticles Synthesized in AOT/C12E4 Mixed Reverse Micelles by Antisolvent CO2. Chemistry - A European Journal, 2002, 8, 3879-3883.	3.3	80

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19	High-internal-phase emulsions stabilized by metal-organic frameworks and derivation of ultralight metal-organic aerogels. Scientific Reports, 2016, 6, 21401.	3.3	78
20	Solubility of Ls-36 and Ls-45 Surfactants in Supercritical CO2and Loading Water in the CO2/Water/Surfactant Systems. Langmuir, 2002, 18, 3086-3089.	3.5	76
21	Supercritical or Compressed CO₂ as a Stimulus for Tuning Surfactant Aggregations. Accounts of Chemical Research, 2013, 46, 425-433.	15.6	76
22	One-step synthesis of ultrathin Î±-Co(OH)₂nanomeshes and their high electrocatalytic activity toward the oxygen evolution reaction. Chemical Communications, 2018, 54, 4045-4048.	4.1	71
23	Synthesis and characterization of TiO2â€“montmorillonite nanocomposites and their application for removal of methylene blue. Journal of Materials Chemistry, 2006, 16, 579-584.	6.7	70
24	BiOCl nanosheets with periodic nanochannels for high-efficiency photooxidation. Nano Energy, 2020, 78, 105340.	16.0	70
25	Fabrication of 2D metalâ€“organic framework nanosheets with tailorable thickness using bio-based surfactants and their application in catalysis. Green Chemistry, 2019, 21, 54-58.	9.0	66
26	Highly efficient hydrogenation of levulinic acid into 2-methyltetrahydrofuran over Niâ€“Cu/Al₂O₃â€“ZrO₂bifunctional catalysts. Green Chemistry, 2019, 21, 606-613.	9.0	66
27	Seleniumâ€Doped Hierarchically Porous Carbon Nanosheets as an Efficient Metalâ€Free Electrocatalyst for CO₂ Reduction. Advanced Functional Materials, 2020, 30, 1906194.	14.9	66
28	Nonaqueous microemulsion-containing ionic liquid [bmim][PF6] as polar microenvironment. Colloid and Polymer Science, 2005, 283, 1371-1375.	2.1	65
29	A Novel Method to Immobilize Ru Nanoparticles on SBA-15 Firmly by Ionic Liquid and Hydrogenation of Arene. Catalysis Letters, 2005, 103, 59-62.	2.6	63
30	Multi-shelled CuO microboxes for carbon dioxide reduction to ethylene. Nano Research, 2020, 13, 768-774.	10.4	60
31	Supramolecular Assemblies of Amphiphilic <scp>L</scp>â€Proline Regulated by Compressed CO₂ as a Recyclable Organocatalyst for the Asymmetric Aldol Reaction. Angewandte Chemie - International Edition, 2013, 52, 7761-7765.	13.8	58
32	Large-pore mesoporous Mn3O4 crystals derived from metalâ€“organic frameworks. Chemical Communications, 2013, 49, 11695.	4.1	56
33	Nanoemulsions Induced by Compressed Gases. Angewandte Chemie - International Edition, 2008, 47, 3012-3015.	13.8	55
34	CO2 controls the oriented growth of metal-organic framework with highly accessible active sites. Nature Communications, 2020, 11, 1431.	12.8	51
35	A new method to recover the nanoparticles from reverse micelles: recovery of ZnS nanoparticles synthesized in reverse micelles by compressed CO2. Chemical Communications, 2001, , 2724-2725.	4.1	50
36	Hollow metalâ€“organic framework polyhedra synthesized by a CO2â€“ionic liquid interfacial templating route. Journal of Colloid and Interface Science, 2014, 416, 198-204.	9.4	50

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37	Assembling Metalâ€“Organic Frameworks in Ionic Liquids and Supercritical CO₂. Chemistry - an Asian Journal, 2016, 11, 2610-2619.	3.3	49
38	Cellular graphene aerogel combines ultralow weight and high mechanical strength: A highly efficient reactor for catalytic hydrogenation. Scientific Reports, 2016, 6, 25830.	3.3	49
39	Fire-resistant, ultralight, superelastic and thermally insulated polybenzazole aerogels. Journal of Materials Chemistry A, 2018, 6, 20769-20777.	10.3	49
40	Micellization of long-chain ionic liquids in deep eutectic solvents. Soft Matter, 2016, 12, 5297-5303.	2.7	47
41	Pickering emulsions stabilized by a metalâ€“organic framework (MOF) and graphene oxide (GO) for producing MOF/GO composites. Soft Matter, 2017, 13, 7365-7370.	2.7	46
42	Poly(ethylene glycol) Stabilized Mesoporous Metalâ€“Organic Framework Nanocrystals: Efficient and Durable Catalysts for the Oxidation of Benzyl Alcohol. ChemPhysChem, 2014, 15, 85-89.	2.1	44
43	Anchoring Ionic Liquid in Copper Electrocatalyst for Improving CO₂ Conversion to Ethylene. Angewandte Chemie - International Edition, 2022, 61, .	13.8	44
44	Incorporation of metal-organic framework in polymer membrane enhances vanadium flow battery performance. Electrochimica Acta, 2017, 257, 243-249.	5.2	43
45	Carbon Dioxide in Ionic Liquid Microemulsions. Angewandte Chemie - International Edition, 2011, 50, 9911-9915.	13.8	42
46	Bipyridyl-Containing Cadmiumâ€“Organic Frameworks for Efficient Photocatalytic Oxidation of Benzylamine. ACS Applied Materials & Interfaces, 2019, 11, 30953-30958.	8.0	42
47	CO2 capture by hydrocarbonsurfactant liquids. Chemical Communications, 2011, 47, 1033-1035.	4.1	41
48	Nitrogen-carbon layer coated nickel nanoparticles for efficient electrocatalytic reduction of carbon dioxide. Nano Research, 2019, 12, 1167-1172.	10.4	41
49	Converting Metalâ€“Organic Framework Particles from Hydrophilic to Hydrophobic by an Interfacial Assembling Route. Langmuir, 2017, 33, 12427-12433.	3.5	39
50	Metalâ€“Organic Framework-Stabilized CO₂/Water Interfacial Route for Photocatalytic CO₂ Conversion. ACS Applied Materials & Interfaces, 2017, 9, 41594-41598.	8.0	39
51	Boron-doped CuO nanobundles for electroreduction of carbon dioxide to ethylene. Green Chemistry, 2020, 22, 2750-2754.	9.0	39
52	Preparation of ZnS/CdS composite nanoparticles by coprecipitation from reverse micelles using CO2 as antisolvent. Journal of Colloid and Interface Science, 2004, 273, 160-164.	9.4	38
53	High internal ionic liquid phase emulsion stabilized by metalâ€“organic frameworks. Soft Matter, 2016, 12, 8841-8846.	2.7	38
54	Roomâ€Temperature Synthesis of Covalent Organic Framework (COFâ€LZU1) Nanobars in CO₂/Water Solvent. ChemSusChem, 2018, 11, 3576-3580.	6.8	38

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55	Macroâ€•and Mesoporous Polymers Synthesized by a CO₂â€•inâ€•Ionic Liquid Emulsionâ€•Templating Route. Angewandte Chemie - International Edition, 2013, 52, 1792-1795.	13.8	37
56	A Pdâ€“Cu₂O nanocomposite as an effective synergistic catalyst for selective semi-hydrogenation of the terminal alkynes only. Chemical Communications, 2016, 52, 3627-3630.	4.1	37
57	Highly Mesoporous Ru-MIL-125-NH₂ Produced by Supercritical Fluid for Efficient Photocatalytic Hydrogen Production. ACS Applied Energy Materials, 2019, 2, 4964-4970.	5.1	37
58	Supercritical CO2 produces the visible-light-responsive TiO2/COF heterojunction with enhanced electron-hole separation for high-performance hydrogen evolution. Nano Research, 2020, 13, 983-988.	10.4	37
59	Ultra-small gold nanoparticles immobilized on mesoporous silica/graphene oxide as highly active and stable heterogeneous catalysts. Chemical Communications, 2015, 51, 4398-4401.	4.1	36
60	Metalâ€“Organic Framework for Emulsifying Carbon Dioxide and Water. Angewandte Chemie - International Edition, 2016, 55, 11372-11376.	13.8	36
61	A Novel Method to Synthesize Polystyrene Nanospheres Immobilized with Silver Nanoparticles by Using Compressed CO2. Chemistry - A European Journal, 2004, 10, 3531-3536.	3.3	34
62	Nanosized Poly(ethylene glycol) Domains within Reverse Micelles Formed in CO₂. Angewandte Chemie - International Edition, 2012, 51, 12325-12329.	13.8	32
63	Mesoporous inorganic salts with crystal defects: unusual catalysts and catalyst supports. Chemical Science, 2015, 6, 1668-1675.	7.4	32
64	Cu_xNi_y alloy nanoparticles embedded in a nitrogenâ€“carbon network for efficient conversion of carbon dioxide. Chemical Science, 2019, 10, 4491-4496.	7.4	32
65	Simultaneous CO₂ Reduction and 5-Hydroxymethylfurfural Oxidation to Value-Added Products by Electrocatalysis. ACS Sustainable Chemistry and Engineering, 2022, 10, 8043-8050.	6.7	32
66	Reversible Switching of Lamellar Liquid Crystals into Micellar Solutions using CO₂. Angewandte Chemie - International Edition, 2008, 47, 10119-10123.	13.8	31
67	Flexible superhydrophobic polysiloxane aerogels for oilâ€“water separation via one-pot synthesis in supercritical CO₂. RSC Advances, 2015, 5, 76346-76351.	3.6	31
68	Synthesis of icosahedral gold particles by a simple and mild route. Green Chemistry, 2008, 10, 1094.	9.0	29
69	Improved catalytic performance of Co-MOF-74 by nanostructure construction. Green Chemistry, 2020, 22, 5995-6000.	9.0	29
70	Improved photocatalytic performance of covalent organic frameworks by nanostructure construction. Chemical Communications, 2020, 56, 4567-4570.	4.1	29
71	Gas promotes the crystallization of nano-sized metalâ€“organic frameworks in ionic liquid. Chemical Communications, 2015, 51, 11445-11448.	4.1	28
72	In situsynthesis of sub-nanometer metal particles on hierarchically porous metalâ€“organic frameworksviainterfacial control for highly efficient catalysis. Chemical Science, 2018, 9, 1339-1343.	7.4	28

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73	An NH₂-MIL-125 (Ti)/Pt/g-C₃N₄ catalyst promoting visible-light photocatalytic H₂ production. Sustainable Energy and Fuels, 2019, 3, 1233-1238.	4.9	27
74	Fabrication of NH₂-MIL-125 nanocrystals for high performance photocatalytic oxidation. Sustainable Energy and Fuels, 2020, 4, 2823-2830.	4.9	27
75	Preparation of cadmium sulfide/poly(methyl methacrylate) composites by precipitation with compressed CO2. Journal of Applied Polymer Science, 2004, 94, 1643-1648.	2.6	26
76	Metal Ionic Liquids for the Rapid Chemical Fixation of CO₂ under Ambient Conditions. ChemCatChem, 2020, 12, 1963-1967.	3.7	25
77	Formation of multiple water-in-ionic liquid-in-water emulsions. Journal of Colloid and Interface Science, 2012, 368, 395-399.	9.4	24
78	Room-temperature synthesis of mesoporous CuO and its catalytic activity for cyclohexene oxidation. RSC Advances, 2015, 5, 67168-67174.	3.6	24
79	Amphiphile self-assemblies in supercritical CO₂ and ionic liquids. Soft Matter, 2014, 10, 5861-5868.	2.7	23
80	Ionic liquids produce heteroatom-doped Pt/TiO2 nanocrystals for efficient photocatalytic hydrogen production. Nano Research, 2019, 12, 1967-1972.	10.4	23
81	Effect of compressed CO2 on the properties of AOT reverse micelles studied by spectroscopy and phase behavior. Journal of Chemical Physics, 2003, 119, 4873-4878.	3.0	21
82	Switching Micellization of Pluronics in Water by CO₂. Chemistry - A European Journal, 2011, 17, 4266-4272.	3.3	21
83	Improved photocatalytic performance of metalâ€"organic frameworks for CO₂ conversion by ligand modification. Chemical Communications, 2020, 56, 7637-7640.	4.1	21
84	Enhancing CO₂ electroreduction to CH₄ over Cu nanoparticles supported on N-doped carbon. Chemical Science, 2022, 13, 8388-8394.	7.4	21
85	Effect of compressed CO2 on the size and stability of reverse micelles: Small-angle x-ray scattering and phase behavior study. Journal of Chemical Physics, 2003, 118, 3329-3333.	3.0	19
86	Steering CO2 electroreduction toward methane or ethylene production. Nano Energy, 2021, 88, 106239.	16.0	19
87	Photocatalytic carbon dioxide reduction coupled with benzylamine oxidation over Zn-Bi₂WO₆ microflowers. Green Chemistry, 2021, 23, 2913-2917.	9.0	19
88	A new separation method: combination of CO2 and surfactant aqueous solutions. Green Chemistry, 2008, 10, 578.	9.0	18
89	Waterâ€inâ€Supercritical CO₂ Microemulsion Stabilized by a Metal Complex. Angewandte Chemie - International Edition, 2016, 55, 13533-13537.	13.8	18
90	Highly selective and efficient reduction of CO₂ to CO on cadmium electrodes derived from cadmium hydroxide. Chemical Communications, 2018, 54, 5450-5453.	4.1	18

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91	Synthesis of montmorillonite/polystyrene nanocomposites in supercritical carbon dioxide. Journal of Applied Polymer Science, 2004, 94, 1194-1197.	2.6	17
92	Effects of ultrasound on the microenvironment in reverse micelles and synthesis of nanorods and nanofibers. Physical Chemistry Chemical Physics, 2004, 6, 2391.	2.8	17
93	Preparation of mesoporous MCM-41/poly(acrylic acid) composites using supercritical CO2 as a solvent. Journal of Materials Chemistry, 2003, 13, 1373.	6.7	16
94	Porosity control in mesoporous polymers using CO₂-swollen block copolymer micelles as templates and their use as catalyst supports. Chemical Communications, 2014, 50, 11957-11960.	4.1	16
95	Assembly of Mesoporous Metalâ€"Organic Framework Templated by an Ionic Liquid/Ethylene Glycol Interface. ChemPhysChem, 2015, 16, 2317-2321.	2.1	16
96	Solvent Impedes CO₂ Cycloaddition on Metalâ€"Organic Frameworks. Chemistry - an Asian Journal, 2018, 13, 386-389.	3.3	16
97	Rapid, Roomâ€Temperature and Templateâ€Free Synthesis of Metalâ€Organic Framework Nanowires in Alcohol. ChemCatChem, 2019, 11, 2058-2062.	3.7	16
98	Boosting CO₂ electroreduction to C₂₊ products on fluorine-doped copper. Green Chemistry, 2022, 24, 1989-1994.	9.0	16
99	Synthesis of Ag/BSA composite nanospheres from water-in-oil microemulsion using compressed CO2 as antisolvent. Biotechnology and Bioengineering, 2005, 89, 274-279.	3.3	14
100	CO2-responsive TX-100 emulsion for selective synthesis of 1D or 3D gold. Soft Matter, 2010, 6, 6200.	2.7	14
101	Emulsion inversion induced by CO2. Physical Chemistry Chemical Physics, 2011, 13, 6065.	2.8	14
102	A simple and inexpensive route to synthesize porous silica microflowers by supercritical CO2. Microporous and Mesoporous Materials, 2005, 87, 10-14.	4.4	13
103	CO2-controlled reactors: epoxidation in emulsions with droplet size from micron to nanometre scale. Green Chemistry, 2010, 12, 452.	9.0	13
104	Hierarchically macroâ€"mesoâ€"microporous metalâ€"organic framework for photocatalytic oxidation. Chemical Communications, 2020, 56, 10754-10757.	4.1	13
105	Air atmospheric photocatalytic oxidation by ultrathin C,N-TiO₂nanosheets. Green Chemistry, 2021, 23, 1165-1170.	9.0	13
106	Template-free synthesis of mesoporous polymers. Chemical Communications, 2014, 50, 8128-8130.	4.1	12
107	Switching chirality in the assemblies of bio-based amphiphiles solely by varying their alkyl chain length. Chemical Communications, 2017, 53, 2162-2165.	4.1	12
108	Pickering emulsions stabilized by metalâ€"organic frameworks, graphitic carbon nitride and graphene oxide. Soft Matter, 2021, 18, 10-18.	2.7	12

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109	Tin(IV) Sulfide Greatly Improves the Catalytic Performance of UiOâ€66 for Carbon Dioxide Cycloaddition. ChemCatChem, 2018, 10, 2945-2948.	3.7	11
110	CO₂/Water Emulsions Stabilized by Partially Reduced Graphene Oxide. ACS Applied Materials & Interfaces, 2017, 9, 17613-17619.	8.0	10
111	Efficient separation of surfactant and organic solvent by CO2. Chemical Communications, 2011, 47, 5816.	4.1	9
112	Interfacial assembly and hydrolysis for synthesizing a TiO2/metalâ€"organic framework composite. Soft Matter, 2017, 13, 9174-9178.	2.7	9
113	Carbon dioxide droplets stabilized by g-C₃N₄. Green Chemistry, 2018, 20, 4206-4209.	9.0	9
114	Ferric acetylacetonate/covalent organic framework composite for high performance photocatalytic oxidation. Green Energy and Environment, 2022, 7, 1281-1288.	8.7	9
115	Preparation of high entropy nitride ceramic nanofibers from liquid precursor for CO₂ photocatalytic reduction. Journal of the American Ceramic Society, 2022, 105, 3729-3734.	3.8	9
116	Metalâ€"Organic Framework for Emulsifying Carbon Dioxide and Water. Angewandte Chemie, 2016, 128, 11544-11548.	2.0	8
117	Ultra-small UiO-66-NH2 nanoparticles immobilized on g-C3N4 nanosheets for enhanced catalytic activity. Green Energy and Environment, 2022, 7, 512-518.	8.7	8
118	Water nanodomains for efficient photocatalytic CO₂ reduction to CO. Green Chemistry, 2021, 23, 9078-9083.	9.0	8
119	Ultrasound-Induced Capping of Polystyrene on TiO₂ Nanoparticles by Precipitation with Compressed CO₂ as Antisolvent. Journal of Nanoscience and Nanotechnology, 2005, 5, 945-950.	0.9	7
120	Enhanced stabilization of vesicles formed in mixed cationic and anionic surfactant systems by compressed gases. RSC Advances, 2011, 1, 776.	3.6	7
121	Waterâ€inâ€Supercritical CO₂ Microemulsion Stabilized by a Metal Complex. Angewandte Chemie, 2016, 128, 13731-13735.	2.0	6
122	Formation of large nanodomains in liquid solutions near the phase boundary. Chemical Communications, 2016, 52, 14286-14289.	4.1	6
123	Metal Ionic Liquids Produce Metalâ€Dispersed Carbonâ€Nitrogen Networks for Efficient CO 2 Electroreduction. ChemCatChem, 2019, 11, 3166-3170.	3.7	6
124	BiO _{2-x} Nanosheets with Surface Electron Localizations for Efficient Electrocatalytic CO ₂ Reduction to Formate. CCS Chemistry, 2023, 5, 133-144.	7.8	6
125	Co(NO₃)₂/covalent organic framework nanoparticles for high-efficiency photocatalytic oxidation of thioanisole. Chemical Communications, 2022, 58, 6324-6327.	4.1	5
126	Anchoring Ionic Liquid in Copper Electrocatalyst for Improving CO₂ Conversion to Ethylene. Angewandte Chemie, 2022, 134, .	2.0	4

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127	Periodically nanoporous hydrogen-bonded organic frameworks for high performance photocatalysis. Nanoscale, 2022, 14, 9762-9770.	5.6	4
128	Ultrathin and Porous Carbon Nanosheets Supporting Bimetallic Nanoparticles for Highâ€Performance Electrocatalysis. ChemCatChem, 2018, 10, 1241-1247.	3.7	3
129	Effect of ultrasound on the microstructure of polystyrene in cyclohexane: a synchrotron small-angle X-ray scattering study. Colloid and Polymer Science, 2007, 285, 1275-1279.	2.1	2
130	CO2as a smart gelator for Pluronic aqueous solutions. Chemical Communications, 2014, 50, 14233-14236.	4.1	2
131	Hierarchical macro- and mesoporous assembly of metal oxide nanoparticles derived from metal-organic complex. Microporous and Mesoporous Materials, 2015, 217, 6-11.	4.4	2
132	Highly Crystalline Agâ€based Coordination Polymers for Efficient Photocatalytic Oxidation of Sulfides. Chemistry - an Asian Journal, 2022, , e202200031.	3.3	2
133	Waterâ€“alkane interface promotes the formation of metalâ€“organic frameworks. Microporous and Mesoporous Materials, 2016, 220, 270-274.	4.4	1
134	The stability of metal-organic framework MIL-101(Fe) in alkylol amine solutions. Scientia Sinica Chimica, 2022, , .	0.4	0
135	Two highly crystalline coordination polymers with two-dimensional PbS networks for photocatalytic synthesis of imines. Catalysis Science and Technology, 0, , .	4.1	0