Zhi Lin

List of Publications by Year
in descending order

129 papers	3,186 citations	136885 32 h-index	197736 49 g-index
141 all docs	141 docs citations	141 times ranked	3187 citing authors

#	Article	IF	Citations
1	Visibleâ€Light Excited Luminescent Thermometer Based on Single Lanthanide Organic Frameworks. Advanced Functional Materials, 2016, 26, 8677-8684.	7.8	188
2	Synthesis and Structural Characterization of Microporous Umbite, Penkvilksite, and Other Titanosilicates. Journal of Physical Chemistry B, 1997, 101, 7114-7120.	1.2	134
3	Functional Cationic Nanomagnetâ^'Porphyrin Hybrids for the Photoinactivation of Microorganisms. ACS Nano, 2010, 4, 7133-7140.	7.3	112
4	Isomerization of d-glucose to d-fructose over metallosilicate solid bases. Applied Catalysis A: General, 2008, 339, 21-27.	2.2	99
5	Photoinactivation of bacteria in wastewater by porphyrins: Bacterial Î²-galactosidase activity and leucine-uptake as methods to monitor the process. Journal of Photochemistry and Photobiology B: Biology, 2007, 88, 112-118.	1.7	93
6	Synthesis of microporous titanosilicate ETS-10 from TiCl3 and TiO2: a comprehensive study. Microporous and Mesoporous Materials, 1998, 23, 253-263.	2.2	90
7	Microporous Mixed Octahedral-Pentahedral-Tetrahedral Framework Silicates. Reviews in Mineralogy and Geochemistry, 2005, 57, 173-201.	2.2	81
8	The First Large-Pore Vanadosilicate Framework Containing Hexacoordinated Vanadium. Angewandte Chemie International Edition in English, 1997, 36, 100-102.	4.4	70
9	A new insight on nanomagnetâ€“porphyrin hybrids for photodynamic inactivation of microorganisms. Dyes and Pigments, 2014, 110, 80-88.	2.0	65
10	Inorganic Membranes for Hydrogen Separation. Separation and Purification Reviews, 2018, 47, 229-266.	2.8	65
11	Synthesis and characterisation of titanosilicate ETS-10 membranes. Microporous and Mesoporous Materials, 2004, 67, 79-86.	2.2	60
12	Removal of low concentration Hg2+ from natural waters by microporous and layered titanosilicates. Microporous and Mesoporous Materials, 2007, 103, 325-332.	2.2	59
13	Ionothermal synthesis of a three-dimensional zinc phosphate with DFT topology using unstable deep-eutectic solvent as template-delivery agent. Microporous and Mesoporous Materials, 2008, 115, 624-628.	2.2	51
14	Al,Ti Avoidance in the Microporous Titanoaluminosilicate ETAS-10. Angewandte Chemie International Edition in English, 1995, 34, 1003-1005.	4.4	49
15	Isomorphous substitution in the microporous titanosilicate ETS-10. Microporous Materials, 1996, 6, 195-204.	1.6	49
16	Gas-Phase Oxidative Dehydrogenation of Cyclohexanol over ETS-10 and Related Materials. Journal of Catalysis, 2001, 200, 99-105.	3.1	49
17	Hydrothermal Synthesis, Structural Investigation, Photoluminescence Features, and Emission Quantum Yield of Eu and Euâ^'Gd Silicates with Apatite-Type Structure. Chemistry of Materials, 2006, 18, 5958-5964.	3.2	49
18	Fixed-bed removal of Hg2+ from contaminated water by microporous titanosilicate ETS-4: Experimental and theoretical breakthrough curves. Microporous and Mesoporous Materials, 2011, 145, 32-40.	2.2	48

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19	Cadmiumâ€“Furandicarboxylate Coordination Polymers Prepared with Different Types of Pyridyl Linkers: Synthesis, Divergent Dimensionalities, and Luminescence Study. Crystal Growth and Design, 2013, 13, 5272-5281.	1.4	48
20	Alkenes oligomerization with resin catalysts. Fuel Processing Technology, 2015, 138, 86-99.	3.7	48
21	Synthesis and Structural Characterization of Microporous Framework Zirconium Silicates. Journal of Physical Chemistry B, 1999, 103, 957-963.	1.2	46
22	Guest-induced reversible structural transitions and concomitant on/off luminescence switching of an Eu(<scp>iii</scp>) metalâ€“organic framework and its application in detecting picric acid. New Journal of Chemistry, 2015, 39, 2289-2295.	1.4	46
23	Synthesis and Structural Studies of Microporous Titaniumâ€“Niobiumâ€“Silicates with the Structure of Nenadkevichite. The Journal of Physical Chemistry, 1996, 100, 14978-14983.	2.9	44
24	Removal of Hg2+ ions from aqueous solution by ETS-4 microporous titanosilicateâ€”Kinetic and equilibrium studies. Chemical Engineering Journal, 2009, 151, 247-254.	6.6	44
25	Cadmium(II) removal from aqueous solution using microporous titanosilicate ETS-4. Chemical Engineering Journal, 2009, 147, 173-179.	6.6	43
26	Ab Initio Structure Determination of a Small-Pore Framework Sodium Stannosilicate. Inorganic Chemistry, 2001, 40, 3330-3335.	1.9	42
27	Synthesis and Structural Characterization of Microporous Yttrium and Calcium Silicates. Journal of Physical Chemistry B, 1998, 102, 4739-4744.	1.2	40
28	Mercury removal with titanosilicate ETS-4: Batch experiments and modelling. Microporous and Mesoporous Materials, 2008, 115, 98-105.	2.2	40
29	Photoluminescence of new Er3+-doped titanosilicate materials. Journal of Materials Chemistry, 2000, 10, 1371-1375.	6.7	34
30	Priority pollutants (Hg2+ and Cd2+) removal from water by ETS-4 titanosilicate. Desalination, 2009, 249, 742-747.	4.0	34
31	The first synthetic microporous yttrium silicate containing framework sodium ions. Chemical Communications, 1997, , 2103-2104.	2.2	33
32	Effect of pH and temperature on Hg2+ water decontamination using ETS-4 titanosilicate. Journal of Hazardous Materials, 2010, 175, 439-444.	6.5	33
33	Synthesis, Characterization, and Separation Properties of Snâ€“ and Tiâ€“Silicate Umbite Membranes. Chemistry of Materials, 2006, 18, 2472-2479.	3.2	30
34	Hydrothermal Synthesis and Morphological Evolution of Mesoporous Titaniaâ€“Silica. Journal of Physical Chemistry C, 2009, 113, 20335-20348.	1.5	29
35	Synthesis and characterization of MCM-48 tubular membranes. Journal of Membrane Science, 2006, 280, 867-875.	4.1	28
36	Novel microporous titaniumâ€“niobiumâ€“silicates with the structure of nenadkevichite. Chemical Communications, 1996, , 669-670.	2.2	27

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37	Synthesis and structure of a novel microporous framework stannosilicate. Journal of Materials Chemistry, 2000, 10, 1353-1356.	6.7	27
38	Single Crystal to Single Crystal (SCâ€toâ€SC) Transformation from a Nonporous to Porous Metalâ€“Organic Framework and Its Application Potential in Gas Adsorption and Suzuki Coupling Reaction through Postmodification. Chemistry - A European Journal, 2015, 21, 5962-5971.	1.7	27
39	Selective Adsorption of Volatile Organic Compounds in Micropore Aluminum Methylphosphonate-Î±:Â A Combined Molecular Simulationâ^Experimental Approach. Langmuir, 2007, 23, 7299-7305.	1.6	26
40	Photoluminescent Layered Lanthanide Silicate Nanoparticles. Chemistry of Materials, 2008, 20, 205-212.	3.2	26
41	Effect of pH on cadmium (II) removal from aqueous solution using titanosilicate ETS-4. Chemical Engineering Journal, 2009, 155, 728-735.	6.6	26
42	Ga, Ti avoidance in the microporous titanogallosilicate ETGS-10. Journal of the Chemical Society Chemical Communications, 1995, , 867.	2.0	25
43	Synthesis and structural characterization of novel tin and titanium potassium silicates K4M2Si6O18. Journal of Solid State Chemistry, 2003, 175, 258-263.	1.4	25
44	91Zr and 25Mg solid-state NMR characterization of the local environments of the metal centers in microporous materials. Chemical Physics Letters, 2008, 461, 260-265.	1.2	25
45	New Insights into the Short-Range Structures of Microporous Titanosilicates As Revealed by ^{47/49}Ti, ²³Na, ³⁹K, and ²⁹Si Solid-State NMR Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 27353-27365.	1.5	25
46	Uptake of Hg2+ from aqueous solutions by microporous titano- and zircono-silicates. Quimica Nova, 2008, 31, 321-325.	0.3	24
47	Hydrothermal Synthesis of Copper Zirconium Phosphate Hydrate [Cu(OH)₂Zr(HPO₄)₂Â·2H₂O] and an Investigation of its Lubrication Properties in Grease. ACS Applied Materials & Interfaces, 2013, 5, 7989-7994.	4.0	24
48	Ab initio structure determination of novel small-pore metal-silicates: knots-and-crosses structures. Inorganica Chimica Acta, 2003, 356, 19-26.	1.2	23
49	Photoluminescence and local structure of Eu(III)-doped zirconium silicates. Journal of Alloys and Compounds, 2004, 374, 185-189.	2.8	23
50	New Template-Free Layered Manganese(III) Phosphate: Hydrothermal Synthesis, Ab Initio Structural Determination, and Magnetic Properties. Chemistry of Materials, 2007, 19, 6025-6029.	3.2	23
51	Cadmium(II) removal from aqueous solution using microporous titanosilicate ETS-10. Chemical Engineering Journal, 2009, 155, 108-114.	6.6	23
52	1Hâ€“31P HETCOR NMR elucidates the nature of acid sites in zeolite HZSM-5 probed with trimethylphosphine oxide. Chemical Communications, 2019, 55, 12635-12638.	2.2	23
53	Characterisation studies on the new microporous aluminium-containing ETS-10 molecular sieve used for processing larger molecules. Microporous Materials, 1997, 10, 211-224.	1.6	22
54	Template control in ionothermal synthesis of aluminophosphate microporous materials. Dalton Transactions, 2009, , 10418.	1.6	22

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55	A new titanosilicate umbite membrane for the separation of H2. Chemical Communications, 2005, , 3036.	2.2	21
56	Coreâ€“shell magnetite-silica dithiocarbamate-derivatised particles achieve the Water Framework Directive quality criteria for mercury in surface waters. Environmental Science and Pollution Research, 2013, 20, 5963-5974.	2.7	20
57	Nanomagnet-photosensitizer hybrid materials for the degradation of 17Î²-estradiol in batch and flow modes. Dyes and Pigments, 2017, 142, 535-543.	2.0	20
58	Multiple-quantum 27Al MAS NMR spectroscopy of microporous aluminium methylphosphonate AlMepO-?. Chemical Communications, 1996, , 2513.	2.2	19
59	Preparation of stable MCM-48 tubular membranes. Journal of Membrane Science, 2009, 326, 137-144.	4.1	19
60	New Crystalline Layered Zinc Phosphate with 10-Membered-Ring Channels Perpendicular to Layers. Inorganic Chemistry, 2009, 48, 4598-4600.	1.9	19
61	Synthesis, characterization and observation of structural diversities in a series of transition metal based furan dicarboxylic acid systems. CrystEngComm, 2013, 15, 2113.	1.3	19
62	Cobaltâ€Based 3D Metalâ€“Organic Frameworks: Useful Candidates for Olefin Epoxidation at Ambient Temperature by H₂O₂. European Journal of Inorganic Chemistry, 2013, 2013, 5103-5109.	1.0	17
63	Synthesis, Structural Aspects and Catalytic Performance of a Tetrahedral Cobalt Phosphonate Framework. European Journal of Inorganic Chemistry, 2013, 2013, 5020-5026.	1.0	17
64	Synthesis of microporous titano-alumino-silicate ETAS-10 with different framework aluminum contents. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 179, 133-138.	2.3	16
65	Photoluminescent films of microporous titanosilicate ETS-10 doped with europium(III). Microporous and Mesoporous Materials, 2005, 79, 13-19.	2.2	16
66	Hydrothermal synthesis, structural, and spectroscopic studies of vanadium substituted ETS-4. Microporous and Mesoporous Materials, 2008, 110, 436-441.	2.2	16
67	Modelling gas permeation through new microporous titanosilicate AM-3 membranes. Chemical Engineering Journal, 2010, 165, 395-404.	6.6	16
68	Crystallization of New Samarium Polyborates. Inorganic Chemistry, 2012, 51, 3088-3093.	1.9	16
69	A simple and general route for the preparation of pure and high crystalline nanosized lanthanide silicates with the structure of apatite at low temperature. Journal of Solid State Chemistry, 2010, 183, 2726-2730.	1.4	15
70	Titanosilicate AM-3 membrane: A new potential candidate for H2 separation. Microporous and Mesoporous Materials, 2011, 137, 43-48.	2.2	15
71	Photoluminescent porous and layered lanthanide silicates: A review. Microporous and Mesoporous Materials, 2016, 234, 73-97.	2.2	14
72	New generation of nitric oxide-releasing porous materials: Assessment of their potential to regulate biological functions. Nitric Oxide - Biology and Chemistry, 2019, 90, 29-36.	1.2	14

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73	Crystallization of five new supramolecular networks with both bipyridyl and dicyanamide ligands. Polyhedron, 2013, 53, 249-257.	1.0	13
74	pHâ€Tuned Modulation of 1D Chain to 3D Metalâ€“Organic Framework: Synthesis, Structure and Their Useful Application in the Heterogeneous Claisenâ€“Schmidt Reaction. ChemPlusChem, 2015, 80, 591-598.	1.3	13
75	A new series of 3D lanthanide phenoxycarboxylates: synthesis, crystal structure, magnetism and photoluminescence studies. CrystEngComm, 2021, 23, 4143-4151.	1.3	13
76	Small-pore framework zirconium and hafnium silicates with the structure of mineral tumchaite. Microporous and Mesoporous Materials, 2004, 76, 99-104.	2.2	12
77	Incorporation of mixed valence vanadium in the microporous titanosilicate AM-2. Microporous and Mesoporous Materials, 2006, 96, 363-368.	2.2	12
78	Novel Microporous and Layered Luminescent Lanthanide Silicates. Materials Science Forum, 2004, 455-456, 527-531.	0.3	11
79	Nitrogen and Water Adsorption in Aluminum Methylphosphonate Î±:Â A Molecular Simulation Study. Langmuir, 2006, 22, 3097-3104.	1.6	11
80	Improved Ti-silicate umbite membranes for the separation of H2. Journal of Membrane Science, 2008, 323, 207-212.	4.1	11
81	Auxiliary ligand-assisted structural diversities of two coordination polymers with 2-hydroxyquinoline-4-carboxylic acid. Inorganic Chemistry Communication, 2014, 40, 92-96.	1.8	11
82	Single and binary surface diffusion permeation through zeolite membranes using new Maxwell-Stefan factors for Dubinin-type isotherms and occupancy-dependent kinetics. Separation and Purification Technology, 2017, 182, 207-218.	3.9	11
83	Synthesis and characterisation of a stannosilicate with the structure of penkvilksite-1M. Microporous and Mesoporous Materials, 2006, 94, 173-178.	2.2	10
84	A microporous titanosilicate for selective killing of HeLa cancer cells. RSC Advances, 2013, 3, 8843.	1.7	10
85	Refinement of the layered titanosilicate AM-1 from single-crystal X-ray diffraction data. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, i186-i186.	0.2	9
86	Mild hydrothermal synthesis, crystal structure, photoluminescence properties and emission quantum yield of a new zirconium germanate with garnet-type structure. Journal of Solid State Chemistry, 2012, 190, 18-23.	1.4	9
87	The influence of Fe on the formation of titanosilicate ETS-4. Journal of Solid State Chemistry, 2012, 190, 162-168.	1.4	9
88	Layered transition metal carboxylates: synthesis, structural aspects and observation of multi-step magnetic transition through phase diagram. Dalton Transactions, 2013, 42, 14836.	1.6	9
89	Control formation of rigid linear and flexible zig-zig complexes based on Zn(II) and hydroxyquinoline carboxylate ligand system. Inorganic Chemistry Communication, 2013, 30, 111-114.	1.8	9
90	Synthesis and Luminescence of Eu3+-Doped Narsarsukite Prepared by the Sol-Gel Process. Journal of Sol-Gel Science and Technology, 2003, 26, 1005-1009.	1.1	8

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91	6. Microporous Mixed Octahedral-Pentahedral- Tetrahedral Framework Silicates. , 2005, , 173-202.		8
92	Experimental measurement and modeling of ion exchange equilibrium and kinetics of cadmium(II) solutions over microporous stannosilicate AV-6. Chemical Engineering Journal, 2016, 295, 139-151.	6.6	8
93	Study of Catalyst Selectivity in the Oxidation of Phenol. Catalysis Letters, 2003, 89, 69-74.	1.4	7
94	Optical properties and local structure of Eu3+-doped synthetic analogue of the microporous titanosilicate mineral sitinakite. Journal of Luminescence, 2008, 128, 1108-1112.	1.5	7
95	Mild Liquid Phase Oxidation of Benzyl Alcohol in the Presence of Microporous Framework Copper Silicates. European Journal of Inorganic Chemistry, 2020, 2020, 1172-1176.	1.0	7
96	Phthalocyanine-Functionalized Magnetic Silica Nanoparticles as Anion Chemosensors. Sensors, 2021, 21, 1632.	2.1	7
97	Photoluminescence of Eu3+-doped nanosized microporous titanosilicateâ€"A structural analogue of the mineral pharmacosiderite. Journal of Alloys and Compounds, 2008, 451, 125-127.	2.8	6
98	Hydrothermal Synthesis, Crystal Structure, and Magnetic Properties of a New Inorganic Vanadium(III) Phosphate with a Chain Structure. Inorganic Chemistry, 2008, 47, 10062-10066.	1.9	6
99	Selective Detection of Cs⁺ in Water Solutions via One-Step Formation of a New Type of Struvite-Like Phosphate. Chemistry of Materials, 2010, 22, 5345-5349.	3.2	6
100	Modified Versions of AMâ€4 for the Aqueous Phase Isomerization of Aldoâ€Saccharides. European Journal of Inorganic Chemistry, 2020, 2020, 1579-1588.	1.0	6
101	Hydrothermal synthesis of the tin analogue of penkvilksite-2O. European Journal of Mineralogy, 2006, 17, 869-873.	0.4	5
102	Novel microporous zirconium silicate (K2ZrSi3O9Â·2H2O) from high temperature phase transformation. Journal of Solid State Chemistry, 2010, 183, 3067-3072.	1.4	5
103	A 2D â† 3D Polycatenated Metalâ€"Organic Framework: Synthesis, Structure, Magnetic and Catalytic Study. European Journal of Inorganic Chemistry, 2013, 2013, 3076-3081.	1.0	5
104	Antimicrobial Photodynamic Activity of Cationic Nanoparticles Decorated with Glycosylated Photosensitizers for Water Disinfection. ChemPhotoChem, 2018, 2, 596-605.	1.5	5
105	The first example of a small-pore framework hafnium silicate. Studies in Surface Science and Catalysis, 2002, 142, 319-325.	1.5	4
106	Synthesis and Ab Initio Structure Determination from Powder Diffraction Data of K₄Sn₂Si₆O₁₈. Materials Science Forum, 2004, 443-444, 329-332.	0.3	4
107	29Si MAS NMR and raman spectroscopy studies of synthetic microporous (Zr, Hf)-umbite. Studies in Surface Science and Catalysis, 2005, 158, 861-868.	1.5	4
108	Crystallization of microporous titanosilicate membranes from clear solutions. Studies in Surface Science and Catalysis, 2007, , 493-498.	1.5	4

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109	Four new zinc(<scp>ii</scp>) diphosphonates obtained via an ionothermal route: crystal structures and phase transformation behaviour. CrystEngComm, 2017, 19, 2500-2508.	1.3	4
110	Rapid and phase pure synthesis of microporous copper silicate (CuSHâ€“1Na) with 12-ring channel system. Journal of Porous Materials, 2018, 25, 1309-1316.	1.3	4
111	Layered titanosilicates. , 2011, , 123-149.		4
112	Temperature and time controlled crystallization in Na2Oâ€“SiO2â€“TiO2â€“H2O system. Microporous and Mesoporous Materials, 2022, 335, 111835.	2.2	4
113	Cooperative structure-directing effects in the synthesis of a low-silica zeolite phillipsite analogue. Microporous and Mesoporous Materials, 2009, 121, 152-157.	2.2	3
114	Synthesis, dynamic characterization, and modeling studies of an AM-3 membrane for light gases separation. Microporous and Mesoporous Materials, 2018, 261, 170-180.	2.2	3
115	A New Chiral Ni4 O4 Distorted Cube: Synthesis, Structure, and Magneto-Structural Correlation. European Journal of Inorganic Chemistry, 2019, 2019, 3840-3845.	1.0	3
116	Towards the sustainable synthesis of microporous and layered titanosilicates: mechanochemical pre-treatment reduces the water amount. Green Chemistry, 2022, 24, 5088-5096.	4.6	3
117	Preparation of Photoluminescent Materials from a Lanthanide-Doped Microporous Titanosilicate Precursor. Materials Science Forum, 2006, 514-516, 123-127.	0.3	2
118	A zirconosilicate system suitable for lanthanide framework incorporation. Journal of Luminescence, 2007, 122-123, 902-904.	1.5	2
119	Heteroepitaxial growth of MFI zeolite over titanosilicate molecular sieves. Chemical Communications, 2009, , 3768.	2.2	2
120	Synthesis and Permeation Properties of Small-Pore Titanosilicate AM-3 Membranes. Procedia Engineering, 2012, 44, 926-927.	1.2	2
121	Removal of Mercury From Aqueous Solutions by ETS-4 Microporous Titanosilicate: Effect of Contact Time, Titanosilicate Mass and Initial Metal Concentration. , 2007, , 1019.		1
122	Syntheses of Mesoporous and Microporous Materials via 2-Methylpentamethylenediamine. Chemistry Letters, 2008, 37, 100-101.	0.7	1
123	The influence of ethylene glycol on the preparation of K2SnSi3O9Â·H2O. Studies in Surface Science and Catalysis, 2008, 174, 301-304.	1.5	1
124	The first hafnium germanate with garnet-type of structure: Mild hydrothermal synthesis, crystal structure and new mechanism of hydroxyl inclusion. Journal of Solid State Chemistry, 2019, 273, 117-121.	1.4	1
125	Aerobic epoxidation of olefins by carboxylate ligandâ€based cobalt (II) compound: synthesis, Xâ€ray crystallography, and catalytic exploration. Applied Organometallic Chemistry, 2022, 36, .	1.7	1
126	Bis(2,2â€²-bipyridine-Îº2N,Nâ€²)bis(dicyanamido-ÎºN1)cadmium. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, m1428-m1428.	0.2	0

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127	Tetraaquabis[2-(pyridin-4-yl-ÎºN)pyrimidine-5-carboxylato]zinc. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, m1429-m1429.	0.2	0
128	Improved therapeutic nitric oxide delivery by microporous Cu-bearing titanosilicate. Microporous and Mesoporous Materials, 2021, 322, 111154.	2.2	0
129	Syntheses of Hafniumâ€“Zirconium Silicate Solid Solutions and a Simple Method to Efficiently Evaluate the Homogeneity of Zr and Hf Distribution. Journal of Physical Chemistry C, 0, , .	1.5	0