Yi Li

List of Publications by Year in descending order

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118 papers	6,317 citations	81900 39 h-index	69250 77 g-index
148 all docs	148 docs citations	148 times ranked	6597 citing authors

#	Article	IF	Citations
1	Applications of Zeolites in Sustainable Chemistry. CheM, 2017, 3, 928-949.	11.7	518
2	A Rapid Aqueous Fluoride Ion Sensor with Dual Output Modes. Angewandte Chemie - International Edition, 2010, 49, 4915-4918.	13.8	511
3	New Stories of Zeolite Structures: Their Descriptions, Determinations, Predictions, and Evaluations. Chemical Reviews, 2014, 114, 7268-7316.	47.7	449
4	Enhanced Binding Affinity, Remarkable Selectivity, and High Capacity of CO₂ by Dual Functionalization of a rhtâ€Type Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2012, 51, 1412-1415.	13.8	430
5	Accelerated crystallization of zeolites via hydroxyl free radicals. Science, 2016, 351, 1188-1191.	12.6	297
6	Solvatochromic AIE luminogens as supersensitive water detectors in organic solvents and highly efficient cyanide chemosensors in water. Chemical Science, 2014, 5, 2710.	7.4	274
7	Emerging applications of zeolites in catalysis, separation and hostâ€“guest assembly. Nature Reviews Materials, 2021, 6, 1156-1174.	48.7	209
8	Creating Hierarchical Pores in Zeolite Catalysts. Trends in Chemistry, 2019, 1, 601-611.	8.5	145
9	An N-rich metalâ€“organic framework with an rht topology: high CO2 and C2 hydrocarbons uptake and selective capture from CH4. Chemical Communications, 2014, 50, 5031.	4.1	137
10	Methylviologen-templated layered bimetal phosphate: a multifunctional X-ray-induced photochromic material. Chemical Science, 2014, 5, 4237-4241.	7.4	130
11	Chirality Transfer from Guest Chiral Metal Complexes to Inorganic Framework: The Role of Hydrogen Bonding. Chemistry - A European Journal, 2003, 9, 5048-5055.	3.3	107
12	Criteria for Zeolite Frameworks Realizable for Target Synthesis. Angewandte Chemie - International Edition, 2013, 52, 1673-1677.	13.8	107
13	Synthesis and structure of a new layered zinc phosphite (C5H6N2)Zn(HPO3) containing helical chains. Chemical Communications, 2003, , 882-883.	4.1	105
14	Methyl viologen-templated zinc gallophosphate zeolitic material with dual photo-/thermochromism and tuneable photovoltaic activity. Chemical Science, 2015, 6, 2922-2927.	7.4	104
15	In situ growth-etching approach to the preparation of hierarchically macroporous zeolites with high MTO catalytic activity and selectivity. Journal of Materials Chemistry A, 2014, 2, 17994-18004.	10.3	102
16	High storage capacity and separation selectivity for C₂ hydrocarbons over methane in the metalâ€“organic framework Cuâ€“TDPAT. Journal of Materials Chemistry A, 2014, 2, 15823-15828.	10.3	102
17	Luminescent carbon dots in a new magnesium aluminophosphate zeolite. Chemical Communications, 2013, 49, 9006.	4.1	93
18	Radical-Facilitated Green Synthesis of Highly Ordered Mesoporous Silica Materials. Journal of the American Chemical Society, 2018, 140, 4770-4773.	13.7	91

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19	Heteroatomâ€Stabilized Chiral Framework of Aluminophosphate Molecular Sieves. Angewandte Chemie - International Edition, 2009, 48, 314-317.	13.8	87
20	A Crystalline Germanate with Mesoporous 30-Ring Channels. Journal of the American Chemical Society, 2009, 131, 14128-14129.	13.7	80
21	Stimuliâ€Responsive Luminescent Properties of Tetraphenyletheneâ€Based Strontium and Cobalt Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2020, 59, 19716-19721.	13.8	70
22	Hydrogen-Bonded Helices in the Layered Aluminophosphate (C2H8N)2[Al2(HPO4)(PO4)2]. Angewandte Chemie - International Edition, 2004, 43, 2399-2402.	13.8	67
23	Singleâ€Atom Catalysts Supported by Crystalline Porous Materials: Views from the Inside. Advanced Materials, 2020, 32, e2002910.	21.0	65
24	Ionothermal Synthesis of Extraâ€Largeâ€Pore Openâ€Framework Nickel Phosphite 5â€‰H₃Oâ‹…[Ni₈(HPO₃)₉Cl₃]â‹…1.5â€‰H₂O: Magnetic Anisotropy of the Antiferromagnetism. Angewandte Chemie - International Edition, 2010, 49, 2328-2331.	13.8	63
25	In silico prediction and screening of modular crystal structures via a high-throughput genomic approach. Nature Communications, 2015, 6, 8328.	12.8	63
26	Toward a New Era of Designed Synthesis of Nanoporous Zeolitic Materials. ACS Nano, 2018, 12, 4096-4104.	14.6	56
27	Dual Functionalized Cages in Metalâ€“Organic Frameworks via Stepwise Postsynthetic Modification. Chemistry of Materials, 2016, 28, 4781-4786.	6.7	55
28	High proton conduction in a new alkali metal-templated open-framework aluminophosphate. Chemical Communications, 2015, 51, 9317-9319.	4.1	54
29	A Gallogermanate Zeolite Constructed Exclusively by Threeâ€Ring Building Units. Angewandte Chemie - International Edition, 2011, 50, 3003-3005.	13.8	53
30	Design of Zeolite Frameworks with Defined Pore Geometry through Constrained Assembly of Atoms. Chemistry of Materials, 2003, 15, 2780-2785.	6.7	52
31	Design of Chiral Zeolite Frameworks with Specified Channels through Constrained Assembly of Atoms. Chemistry of Materials, 2005, 17, 4399-4405.	6.7	51
32	Unveiling Secondary-Ion-Promoted Catalytic Properties of Cu-SSZ-13 Zeolites for Selective Catalytic Reduction of NO_x. Journal of the American Chemical Society, 2022, 144, 12816-12824.	13.7	51
33	Structures and properties of lanthanide metalâ€“organic frameworks based on a 1,2,3-triazole-containing tetracarboxylate ligand. Dalton Transactions, 2012, 41, 12790.	3.3	50
34	Preparation of disordered carbon from rice husks for lithium-ion batteries. New Journal of Chemistry, 2016, 40, 325-329.	2.8	50
35	Recent Advances of Solidâ€State NMR Spectroscopy for Microporous Materials. Advanced Materials, 2020, 32, e2002879.	21.0	50
36	Transitionâ€Metalâ€Containing Porphyrin Metalâ€“Organic Frameworks as Ï€â€Backbonding Adsorbents for NO₂ Removal. Angewandte Chemie - International Edition, 2020, 59, 19680-19683.	13.8	49

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37	Combinatorial approach for the hydrothermal syntheses of open-framework zinc phosphates. Chemical Communications, 2002, , 1720-1721.	4.1	47
38	Design and Synthesis of Two Porous Metalâ€“Organic Frameworks with nbo and agw Topologies Showing High CO₂ Adsorption Capacity. Inorganic Chemistry, 2013, 52, 10720-10722.	4.0	41
39	A Gallogermanate Zeolite with Elevenâ€Memberedâ€Ring Channels. Angewandte Chemie - International Edition, 2013, 52, 5501-5503.	13.8	40
40	Organotemplate-free synthesis of an open-framework magnesium aluminophosphate with proton conduction properties. Chemical Communications, 2015, 51, 2149-2151.	4.1	38
41	(C6H16N2)Zn3(HPO3)4H2O: a new layered zinc phosphite templated by diprotonated trans-1,4-diaminocyclohexane. Journal of Solid State Chemistry, 2003, 170, 303-307.	2.9	35
42	Enhancement of Gas Sorption and Separation Performance via Ligand Functionalization within Highly Stable Zirconium-Based Metalâ€“Organic Frameworks. Crystal Growth and Design, 2017, 17, 2131-2139.	3.0	35
43	Luminescent covalent organic framework as a recyclable turn-off fluorescent sensor for cations and anions in aqueous solution. Journal of Materials Chemistry C, 2019, 7, 11919-11925.	5.5	35
44	Divalent-Metal-Stabilized Aluminophosphates Exhibiting a New Zeolite Framework Topology. Inorganic Chemistry, 2012, 51, 225-229.	4.0	34
45	Rolling Up the Sheet: Constructing Metalâ€“Organic Lamellae and Nanotubes from a [{Mn₃(propanediolato)₂}(dicyanamide)₂]_n Honeycomb Skeleton. Journal of the American Chemical Society, 2013, 135, 18276-18279.	13.7	34
46	Selective Acetylene Adsorption within an Imino-Functionalized Nanocage-Based Metalâ€“Organic Framework. ACS Applied Materials & Interfaces, 2020, 12, 5999-6006.	8.0	33
47	Confinement Effect of Zeolite Cavities on Methanol-to-Olefin Conversion: A Density Functional Theory Study. Journal of Physical Chemistry C, 2014, 118, 24935-24940.	3.1	32
48	A cage-based covalent organic framework for drug delivery. New Journal of Chemistry, 2021, 45, 3343-3348.	2.8	31
49	|(C₄NH₁₂)₄|[M₄Al₁₂P₁₆O₆₄] (M = Co, Zn): New Heteroatom-Containing Aluminophosphate Molecular Sieves with Two Intersecting 8-Ring Channels. Inorganic Chemistry, 2012, 51, 1969-1974.	4.0	30
50	Assembly ofp-Nitroaniline Molecule in the Channel of Zeolite MFI Large Single Crystal for NLO Material. Journal of Physical Chemistry B, 2004, 108, 3426-3430.	2.6	28
51	New Lanthanide Silicates Based on Anionic Silicate Chain, Layer, and Framework Prepared under High-Temperature and High-Pressure Conditions. Inorganic Chemistry, 2010, 49, 9833-9838.	4.0	28
52	Synthesis, Crystal Structure, and Solid-State NMR Spectroscopy of a New Open-Framework Aluminophosphate (NH4)2Al4(PO4)4(HPO4)Â·H2O. Inorganic Chemistry, 2005, 44, 4391-4397.	4.0	27
53	Prediction of Open-Framework Aluminophosphate Structures Using the Automated Assembly of Secondary Building Units Method with Lowenstein's Constraints. Chemistry of Materials, 2005, 17, 6086-6093.	6.7	27
54	Formation mechanism and characterization of porous biomass carbon for excellent performance lithium-ion batteries. RSC Advances, 2018, 8, 12666-12671.	3.6	27

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55	Molecular engineering of microporous crystals: (IV) Crystallization process of microporous aluminophosphate AlPO4-11. Microporous and Mesoporous Materials, 2012, 152, 190-207.	4.4	26
56	Prediction by Convolutional Neural Networks of CO₂/N₂ Selectivity in Porous Carbons from N₂ Adsorption Isotherm at 77â€‰K. Angewandte Chemie - International Edition, 2020, 59, 19645-19648.	13.8	26
57	Combining Structure Modeling and Electron Microscopy to Determine Complex Zeolite Framework Structures. Angewandte Chemie - International Edition, 2008, 47, 4401-4405.	13.8	24
58	Spontaneous crystallization of a new chiral open-framework borophosphate in the ionothermal system. Dalton Transactions, 2010, 39, 1713.	3.3	24
59	Lamellar Mesostructured Aluminophosphates:Â Intercalation ofn-Alkylamines into Layered Aluminophosphate by Ultrasonic Method. Chemistry of Materials, 2005, 17, 2101-2107.	6.7	21
60	FraGen: a computer program for real-space structure solution of extended inorganic frameworks. Journal of Applied Crystallography, 2012, 45, 855-861.	4.5	20
61	Synthesis, characterization and crystal structure analysis of an open-framework zirconium phosphate. Microporous and Mesoporous Materials, 2007, 104, 185-191.	4.4	19
62	Necessity of Heteroatoms for Realizing Hypothetical Aluminophosphate Zeolites: A High-Throughput Computational Approach. Journal of Physical Chemistry Letters, 2019, 10, 1411-1415.	4.6	19
63	High-throughput model-building and screening of zeolitic imidazolate frameworks for CO2 capture from flue gas. Chinese Chemical Letters, 2020, 31, 227-230.	9.0	19
64	Functional Porous Materials Chemistry. Advanced Materials, 2020, 32, e2006277.	21.0	19
65	Molecular engineering of microporous crystals: (VII) The molar ratio dependence of the structure-directing ability of piperazine in the crystallization of four aluminophosphates with open-frameworks. Microporous and Mesoporous Materials, 2013, 176, 112-122.	4.4	18
66	Creating intraparticle mesopores inside ZSM-5 nanocrystals under OSDA-free conditions and achievement of high activity in LDPE degradation. Microporous and Mesoporous Materials, 2018, 258, 178-188.	4.4	17
67	ACO-Zeotype Iron Aluminum Phosphates with Variable Al/Fe Ratios Controlled by F^{â^'} Ions. Inorganic Chemistry, 2011, 50, 1820-1825.	4.0	16
68	Syntheses and Structures of Two Low-Dimensional Beryllium Phosphate Compounds:â€‰[C5H14N2]2[Be3(HPO4)5]Â·H2O and [C6H18N2]0.5[Be2(PO4)(HPO4)OH]Â·0.5H2O. Inorganic Chemistry, 2006, 45, 3281-3286.	4.0	15
69	Synthesis and Characterization of a New Layered Aluminophosphate [Al3P4O16][(CH3)2NHCH2CH2NH(CH3)2][H3O]. Journal of Solid State Chemistry, 2002, 167, 282-288.	2.9	14
70	The Synthesis of Multiwalled Rareâ€Earth Phosphate Nanomaterials Using Organophosphates with Upconversion Properties. European Journal of Inorganic Chemistry, 2008, 2008, 2033-2037.	2.0	14
71	A novel decanuclear Co(ii) cluster with adamantane-like metallic skeleton supported by 8-hydroxyquinoline and in situ formed CO32â^' anions. Dalton Transactions, 2012, 41, 6242.	3.3	14
72	Hydrothermal synthesis of an ITH-type germanosilicate zeolite in a non-concentrated gel system. Journal of Porous Materials, 2013, 20, 975-981.	2.6	14

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73	Roles of Hydroxyl Groups During Sideâ€Chain Alkylation of Toluene with Methanol over Zeolite Naâ€Y: A Density Functional Theory Study. Chinese Journal of Chemistry, 2017, 35, 716-722.	4.9	14
74	High-throughput screening of hypothetical aluminosilicate zeolites for CO2 capture from flue gas. Journal of CO2 Utilization, 2020, 42, 101346.	6.8	14
75	Database of open-framework aluminophosphate structures. Scientific Data, 2020, 7, 107.	5.3	14
76	Covalent Bonding of Phosphonates ofL-Proline andL-Cysteine toÎ³-Zirconium Phosphate. European Journal of Inorganic Chemistry, 2004, 2004, 2956-2960.	2.0	13
77	Na8CeSi6O18and Its Ti-Doped Analogue Na8Ce0.73Ti0.27Si6O18with Interesting Photovoltaic Properties. Chemistry of Materials, 2011, 23, 2842-2847.	6.7	13
78	A new open-framework indium phosphateâ€“phosphite containing intersecting extra-large 16-ring channels. Inorganic Chemistry Communication, 2011, 14, 727-730.	3.9	13
79	LEV-zeotype magnesium aluminophosphates with variable Mg/Al ratios. Dalton Transactions, 2012, 41, 6855.	3.3	13
80	gem â€Diolâ€Type Intermediate in the Activation of a Ketone on Snâ€Î² Zeolite as Studied by Solidâ€State NMR Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, 19532-19538.	13.8	13
81	Screening out unfeasible hypothetical zeolite structures via the closest non-adjacent Oâ‹¯O pairs. Physical Chemistry Chemical Physics, 2017, 19, 1276-1280.	2.8	12
82	K₃[Tb_xEu_{1â€“x}Ge₃O₈(OH)₂] (x = 1, 0.88, 0.67, 0): 2D-Layered Lanthanide Germanates with Tunable Photoluminescent Properties. Inorganic Chemistry, 2012, 51, 4779-4783.	4.0	10
83	Genetic engineering of inorganic functional modular materials. Chemical Science, 2016, 7, 3472-3481.	7.4	10
84	Molecular simulations of host-guest interactions between zeolite framework STW and its organic structure-directing agents. Chinese Chemical Letters, 2020, 31, 1951-1955.	9.0	10
85	Ionothermal synthesis and magnetic study of a new manganese(<scp>ii</scp>) phosphite with an unprecedented Mn/P ratio. Inorganic Chemistry Frontiers, 2016, 3, 924-927.	6.0	9
86	[C3N2H12]Â·[MnAl3P4O17]Â·[H3O]: A manganese (II)-substituted aluminophosphate with zeotype AFN topology. Microporous and Mesoporous Materials, 2005, 85, 252-259.	4.4	8
87	In situ synthesis of aluminophosphate microporous molecular sieve 8-hydroxyquinolineâ€“AlPO4-5 with blue-emitting luminescence property. Microporous and Mesoporous Materials, 2005, 85, 324-330.	4.4	8
88	Synthesis and characterization of a new open-framework aluminophosphate C4N3H16Â·Al4P5O20(H2O)2 (AlPO-CJ31). Microporous and Mesoporous Materials, 2006, 93, 325-330.	4.4	8
89	Helicity of perfluoroalkyl chains controlled by the selfâ€assembly of the Alaâ€Ala dipeptides. Chirality, 2019, 31, 992-1000.	2.6	8
90	Turning waste into treasure: biomass carbon derived from sunflower seed husks used as anode for lithium-ion batteries. Ionics, 2021, 27, 1025-1039.	2.4	8

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91	Introduction and application of zeobank: synthesis and structure databases of zeolites and related materials. Studies in Surface Science and Catalysis, 2007, , 168-176.	1.5	7
92	Synthesis, characterization and properties of microporous lanthanide silicates: K8Ln3Si12O32NO3Â·H2O (Ln=Eu, Tb, Gd, Sm). Solid State Sciences, 2010, 12, 422-427.	3.2	7
93	Prediction by Convolutional Neural Networks of CO₂/N₂ Selectivity in Porous Carbons from N₂ Adsorption Isotherm at 77â€‰K. Angewandte Chemie, 2020, 132, 19813-19816.	2.0	7
94	A New 3-D Open-Framework Zinc Phosphate [C6H16N2]Â·[Zn2(HPO4)3] Synthesized by a Solvothermal Combinatorial Approach. European Journal of Inorganic Chemistry, 2004, 2004, 3718.	2.0	6
95	[C6N2H14]0.5Â·[MnAl3(PO4)4(H2O)2]:Â A Manganese(II)-Substituted Aluminophosphate with AFN Topology. Inorganic Chemistry, 2004, 43, 2703-2707.	4.0	6
96	Syntheses and characterizations of heteroatom-containing open-framework aluminophosphates. Dalton Transactions, 2011, 40, 9289.	3.3	6
97	An inorganicâ€“organic hybrid compound built from polyoxovanadate cluster and Mn (II) complexes. Inorganic Chemistry Communication, 2011, 14, 1640-1643.	3.9	6
98	Distribution of trivalent metal cations in alumino-/gallogermanate zeolites with JST topology. Dalton Transactions, 2012, 41, 12170.	3.3	6
99	A family of germanates constructed from Ge₇ clusters co-templated by metal complexes and organic/inorganic species. CrystEngComm, 2014, 16, 9545-9554.	2.6	5
100	A Germanate Compound Constructed from Dissymmetric Ge₇ Chains and Metal Complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 1345-1350.	1.2	4
101	Accelerating the detection of unfeasible hypothetical zeolites via symmetric local interatomic distance criteria. Chinese Chemical Letters, 2017, 28, 1365-1368.	9.0	4
102	Reducing possible combinations of Wyckoff positions for zeolite structure prediction. Faraday Discussions, 2018, 211, 541-552.	3.2	4
103	Simple structure descriptors quantifying the diffusion of ethene in small-pore zeolites: insights from molecular dynamic simulations. Inorganic Chemistry Frontiers, 2022, 9, 1590-1602.	6.0	4
104	Unraveling templated-regulated distribution of isolated SiO4 tetrahedra in silicoaluminophosphate zeolites with high-throughput computations. National Science Review, 2022, 9, .	9.5	4
105	Design of zeolite frameworks with cross-linked channels through constrained assembly of atoms. Studies in Surface Science and Catalysis, 2004, , 308-316.	1.5	3
106	A Zinc Phosphate Structure with Unusual Doubleâ€Sheet Layers Templated by a Cobalt Hexaammine Complex. European Journal of Inorganic Chemistry, 2012, 2012, 36-39.	2.0	3
107	Predicting Hypothetical Zeolite Frameworks Using Program FraGen. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2013, 29, 1661-1665.	4.9	2
108	High-throughput dynamic microwave-assisted extraction coupled with liquidâ€“liquid extraction for analysis of tetrabromobisphenol A in soil. Analytical Methods, 2016, 8, 8015-8021.	2.7	2

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109	gem â€Diolâ€Type Intermediate in the Activation of a Ketone on Snâ€Î² Zeolite as Studied by Solidâ€State NMR Spectroscopy. Angewandte Chemie, 2020, 132, 19700-19706.	2.0	2
110	High-throughput Screening of Aluminophosphate Zeolites for Adsorption Heat Pump Applications. Chemical Research in Chinese Universities, 2022, 38, 161-166.	2.6	2
111	The application of combinatorial approach in the hydrothermal syntheses of open-framework zinc phosphates. Studies in Surface Science and Catalysis, 2004, , 1028-1034.	1.5	1
112	|(C₆N₄H₂₁)₂|[Ge₇O₁₄F₆]: A New Germanate Compound Constructed from Alternately Stacked Pseudo Tripleâ€Sheet Layers. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 1362-1364.	1.2	1
113	Graphical user interface for the programFraGen. Journal of Applied Crystallography, 2019, 52, 1455-1459.	4.5	1
114	Hydrogen-Bonded Helices in the Layered Aluminophosphate (C2H8N)2 [Al2(HPO4)(PO4)2].. ChemInform, 2004, 35, no.	0.0	0
115	[C6N2H14]0.5Ã— [MnAl3(PO4)4(H2O)2]: A Manganese(II)-Substituted Aluminophosphate with AFN Topology.. ChemInform, 2004, 35, no.	0.0	0
116	Synthesis, Crystal Structure, and Solid-State NMR Spectroscopy of a New Open-Framework Aluminophosphate (NH4)2Al4(PO4)4 (HPO4)Ã—H2O.. ChemInform, 2005, 36, no.	0.0	0
117	Systematic Study of Tiâ€Distribution in Titanosilicate *BEA Zeolites via Symmetryâ€Adapted Enumeration. Chinese Journal of Chemistry, 2019, 37, 593-596.	4.9	0
118	A Computational Method for Specified Substructure Search in Inorganic Crystal Structures. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2012, 28, 536-540.	4.9	0