

# Tao Zheng

## List of Publications by Year in descending order

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34  
papers

1,856  
citations

393982

19  
h-index

377514

34  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2216  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overcoming the crystallization and designability issues in the ultrastable zirconium phosphonate framework system. <i>Nature Communications</i> , 2017, 8, 15369.	5.8	366
2	A mesoporous cationic thorium-organic framework that rapidly traps anionic persistent organic pollutants. <i>Nature Communications</i> , 2017, 8, 1354.	5.8	296
3	Unique Proton Transportation Pathway in a Robust Inorganic Coordination Polymer Leading to Intrinsically High and Sustainable Anhydrous Proton Conductivity. <i>Journal of the American Chemical Society</i> , 2018, 140, 6146-6155.	6.6	181
4	In Situ Growth of ZIF-8 on PAN Fibrous Filters for Highly Efficient U(VI) Removal. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 24164-24171.	4.0	175
5	An aluminum adjuvant-integrated nano-MOF as antigen delivery system to induce strong humoral and cellular immune responses. <i>Journal of Controlled Release</i> , 2019, 300, 81-92.	4.8	125
6	Employing an Unsaturated Th <sup>4+</sup> Site in a Porous Thorium-Organic Framework for Kr/Xe Uptake and Separation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5783-5787.	7.2	122
7	Uptake Mechanisms of Eu(III) on Hydroxyapatite: A Potential Permeable Reactive Barrier Backfill Material for Trapping Trivalent Minor Actinides. <i>Environmental Science &amp; Technology</i> , 2016, 50, 3852-3859.	4.6	53
8	Significantly Dense Two-Dimensional Hydrogen-Bond Network in a Layered Zirconium Phosphate Leading to High Proton Conductivities in Both Water-Assisted Low-Temperature and Anhydrous Intermediate-Temperature Regions. <i>Inorganic Chemistry</i> , 2016, 55, 12508-12511.	1.9	47
9	Probing the Influence of Phosphonate Bonding Modes to Uranium(VI) on Structural Topology and Stability: A Complementary Experimental and Computational Investigation. <i>Inorganic Chemistry</i> , 2015, 54, 3864-3874.	1.9	43
10	Breathing Effect in a Cobalt Phosphonate upon Dehydration/Rehydration: A Single-Crystal to Single-Crystal Study. <i>Chemistry - A European Journal</i> , 2013, 19, 16394-16402.	1.7	40
11	An enantioenriched vanadium phosphonate generated via asymmetric chiral amplification of crystallization from achiral sources showing a single-crystal-to-single-crystal dehydration process. <i>Chemical Communications</i> , 2012, 48, 6565.	2.2	39
12	A Mixed-Valent Uranium Phosphonate Framework Containing U IV, U V, and U VI. <i>Chemistry - A European Journal</i> , 2016, 22, 11954-11957.	1.7	35
13	Employing an Unsaturated Th <sup>4+</sup> Site in a Porous Thorium-Organic Framework for Kr/Xe Uptake and Separation. <i>Angewandte Chemie</i> , 2018, 130, 5885-5889.	1.6	29
14	A new chiral uranyl phosphonate framework consisting of achiral building units generated from ionothermal reaction: structure and spectroscopy characterizations. <i>Dalton Transactions</i> , 2015, 44, 18158-18166.	1.6	27
15	Catalytic mechanism and design principle of coordinately unsaturated single metal atom-doped covalent triazine frameworks with high activity and selectivity for CO <sub>2</sub> electroreduction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3555-3566.	5.2	26
16	Electrocatalytic CO <sub>2</sub> Reduction by Cobalt Bis(pyridylmonoimine) Complexes: Effect of Ligand Flexibility on Catalytic Activity. <i>ACS Catalysis</i> , 2020, 10, 4942-4959.	5.5	24
17	An ultra-stable hafnium phosphonate MOF platform for comparing the proton conductivity of various guest molecules/ions. <i>Chemical Communications</i> , 2021, 57, 1238-1241.	2.2	24
18	Atypical temperature-dependence of symmetry transformation observed in a uranyl phosphonate. <i>Dalton Transactions</i> , 2016, 45, 9031-9035.	1.6	23

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19	Hydrolytically Stable Nanoporous Thorium Mixed Phosphite and Pyrophosphate Framework Generated from Redox-Active Ionothermal Reactions. <i>Inorganic Chemistry</i> , 2016, 55, 3721-3723.	1.9	19
20	Reticular Chemistry of Uranyl Phosphonates: Sterically Hindered Phosphonate Ligand Method is Significant for Constructing Zero-Dimensional Secondary Building Units. <i>Chemistry - A European Journal</i> , 2019, 25, 12567-12575.	1.7	18
21	Eutectic dual-phase microstructure modulated porous high-entropy alloys as high-performance bifunctional electrocatalysts for water splitting. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11110-11120.	5.2	18
22	M <sub>2</sub> (pbtcH)(phen) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> [M(II)=Co, Ni]: Mixed-ligated metal phosphonates based on 5-phosphonatophenyl-1,2,4-tricarboxylic acid showing double chain structures. <i>Chinese Chemical Letters</i> , 2014, 25, 835-838.	4.8	16
23	A Multifunctional Porous Uranyl Phosphonate Framework for Cyclic Utilization: Salvages, Uranyl Leaking Prevention, and Fluorescent Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 14380-14387.	4.0	16
24	A uranyl phosphonate framework with a temperature-induced order-disorder transition and temperature-correlated photoluminescence. <i>CrystEngComm</i> , 2018, 20, 3153-3157.	1.3	14
25	Acid-Base Behaviour in the Absorption and Emission Spectra of Ruthenium(II) Complexes with Hydroxy-Substituted Bipyridine and Phenanthroline Ligands. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 3641-3648.	1.0	13
26	Structural and spectroscopic characterization of two new layered uranyl(VI) p-xylenediphosphonate compounds synthesized via ionothermal method. <i>Inorganica Chimica Acta</i> , 2015, 435, 131-136.	1.2	12
27	Modulating the microporosity of cobalt phosphonates via positional isomerism of co-linkers. <i>CrystEngComm</i> , 2015, 17, 8926-8932.	1.3	11
28	<i>Transactions</i> , 2013, 42, 16396.	1.6	10
29	An Ultrastable Heterobimetallic Uranium(IV)/Vanadium(III) Solid Compound Protected by a Redox-Active Phosphite Ligand: Crystal Structure, Oxidative Dissolution, and First-Principles Simulation. <i>Inorganic Chemistry</i> , 2018, 57, 903-907.	1.9	8
30	A supramolecular uranyl phosphonate [BTEA] <sub>2</sub> [(UO <sub>2</sub> ) <sub>2</sub> (1,3-pbpH <sub>2</sub> ) <sub>2</sub> F <sub>2</sub> ]: Synthesis, structure, and spectroscopic characterization. <i>Journal of Molecular Structure</i> , 2018, 1173, 183-187.	1.8	7
31	Single-crystal-to-single-crystal desolvation in a Ti <sub>32</sub> nanoring cluster. <i>CrystEngComm</i> , 2018, 20, 7062-7065.	1.3	6
32	Reaction of an anthracene-based cyclic phosphonate ester with trimethylsilyl bromide unexpectedly generating two phosphonates: syntheses, crystal structures and fluorescent properties. <i>RSC Advances</i> , 2013, 3, 4001.	1.7	5
33	Two three-dimensional mixed-ligated cobalt phosphonate coordination polymers: Syntheses, crystal structures and magnetic properties. <i>Journal of Molecular Structure</i> , 2022, 1248, 131456.	1.8	4
34	Hydrangea-like architectures composed of Zr-based metal-organic framework nanosheets with enhanced iodine capture. <i>Dalton Transactions</i> , 2021, 50, 16468-16472.	1.6	4