

# Teng Ben

## List of Publications by Year in descending order

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71  
papers

6,705  
citations

126907

33  
h-index

76900

74  
g-index

80  
all docs

80  
docs citations

80  
times ranked

6625  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron and proton conducting framework organic salt single crystals. <i>Journal of Solid State Chemistry</i> , 2022, 308, 122903.	2.9	4
2	Design and synthesis of core-shell porous carbon derived from porous polymer as sulfur immobilizers for high-performance lithium-sulfur batteries. <i>Journal of Materials Science</i> , 2022, 57, 5130-5141.	3.7	4
3	Biomimetic KcsA channels with ultra-selective K <sup>+</sup> transport for monovalent ion sieving. <i>Nature Communications</i> , 2022, 13, 1701.	12.8	46
4	Atomic structure of the continuous random network of amorphous C[(C6H4)2]2 PAF-1. <i>Cell Reports Physical Science</i> , 2022, , 100899.	5.6	0
5	Direct realization of an Operando Systems Chemistry Algorithm (OSCAL) for powering nanomotors. <i>Nanoscale</i> , 2021, 13, 3543-3551.	5.6	3
6	High Uptake and Fast Transportation of LiPF <sub>6</sub> in a Porous Aromatic Framework for Solid-State Li-Ion Batteries. <i>Angewandte Chemie</i> , 2020, 132, 779-784.	2.0	10
7	High Uptake and Fast Transportation of LiPF <sub>6</sub> in a Porous Aromatic Framework for Solid-State Li-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 769-774.	13.8	36
8	Self-Assembly and Cascade Catalysis by a Soft-Oxometalate (SOM) System. <i>Frontiers in Chemistry</i> , 2020, 8, 601814.	3.6	2
9	Two-Dimensional COF-Three-Dimensional MOF Dual-Layer Membranes with Unprecedentedly High H <sub>2</sub> /CO <sub>2</sub> Selectivity and Ultrahigh Gas Permeabilities. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 52899-52907.	8.0	59
10	Shaping of porous polymers. <i>Polymer</i> , 2020, 207, 122928.	3.8	7
11	Crystalline Porous Organic Salts: Crystalline Porous Organic Salts: From Micropore to Hierarchical Pores (Adv. Mater. 44/2020). <i>Advanced Materials</i> , 2020, 32, 2070331.	21.0	2
12	Switchable molecular sieving of a capped metal organic framework membrane. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19984-19990.	10.3	11
13	Crystalline Porous Organic Salts: From Micropore to Hierarchical Pores. <i>Advanced Materials</i> , 2020, 32, e2003270.	21.0	52
14	Introduction of H <sub>2</sub> SO <sub>4</sub> and H <sub>3</sub> PO <sub>4</sub> into Crystalline Porous Organic Salts(CPOS-1) for Outstanding Proton Conductivity. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 976-980.	2.6	3
15	Colossal Negative Linear Compressibility in Porous Organic Salts. <i>Journal of the American Chemical Society</i> , 2020, 142, 3593-3599.	13.7	25
16	Fabrication of Polymer-Supported Metal Organic Framework Membrane and Its Gas Separation Performance. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2020, 36, 1901079-0.	4.9	3
17	Fabrication of a Novel Covalent Organic Framework Membrane and Its Gas Separation Performance. <i>Acta Chimica Sinica</i> , 2020, 78, 805.	1.4	5
18	Impregnated Sulfur in Carbonized Nitrogen-containing Porous Organic Frameworks as Cathode with High Rate Performance and Long Cycle Life for Lithium-sulfur Batteries. <i>Chemical Research in Chinese Universities</i> , 2019, 35, 654-661.	2.6	16

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19	A double helix of opposite charges to form channels with unique CO <sub>2</sub> selectivity and dynamics. <i>Chemical Science</i> , 2019, 10, 730-736.	7.4	87
20	Aligned High Density Semi-Conductive Ultra-Small Single-Walled Carbon Nanotubes. <i>ChemistrySelect</i> , 2019, 4, 12676-12679.	1.5	0
21	Multifunctional Organosulfonate Anions Self-Assembled with Organic Cations by Charge-Assisted Hydrogen Bonds and the Cooperation of Water. <i>Crystal Growth and Design</i> , 2018, 18, 2082-2092.	3.0	20
22	Synthesis of Crystalline Porous Organic Salts with High Proton Conductivity. <i>Angewandte Chemie</i> , 2018, 130, 5443-5447.	2.0	41
23	A [COF-300]-[UiO-66] composite membrane with remarkably high permeability and H <sub>2</sub> /CO <sub>2</sub> separation selectivity. <i>Dalton Transactions</i> , 2018, 47, 7206-7212.	3.3	52
24	Synthesis of Crystalline Porous Organic Salts with High Proton Conductivity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5345-5349.	13.8	162
25	Chiral Recognition and Separation by Chirality-Enriched Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8629-8633.	13.8	116
26	Chiral Recognition and Separation by Chirality-Enriched Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2018, 130, 8765-8769.	2.0	21
27	Porous Organic Frameworks-derived Porous Carbons with Outstanding Gas Adsorption Performance. <i>Chemical Research in Chinese Universities</i> , 2018, 34, 338-343.	2.6	3
28	A 3D Organically Synthesized Porous Carbon Material for Lithium-Ion Batteries (Angew.) <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11952-11956.	2.0	0
29	A 3D Organically Synthesized Porous Carbon Material for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11952-11956.	13.8	75
30	A 3D Organically Synthesized Porous Carbon Material for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2018, 130, 12128-12132.	2.0	5
31	One-step Strategy to Synthesize Porous Carbons by Carbonized Porous Organic Materials and Their Applications. <i>Acta Chimica Sinica</i> , 2018, 76, 366.	1.4	3
32	Porous Organic Materials: Strategic Design and Structure-Function Correlation. <i>Chemical Reviews</i> , 2017, 117, 1515-1563.	47.7	961
33	Surface polarity estimation of metal-organic frameworks using liquid-phase mixture adsorption. <i>Microporous and Mesoporous Materials</i> , 2017, 251, 129-134.	4.4	6
34	Fabrication of COF-MOF Composite Membranes and Their Highly Selective Separation of H <sub>2</sub> /CO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2016, 138, 7673-7680.	13.7	452
35	Synthesis and Gas Storage Application of Hierarchically Porous Materials. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1995-2003.	2.2	14
36	Standout electrochemical performance of SnO <sub>2</sub> and Sn/SnO <sub>2</sub> nanoparticles embedded in a KOH-activated carbonized porous aromatic framework (PAF-1) matrix as the anode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18822-18831.	10.3	28

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37	Site specific supramolecular heterogeneous catalysis by optically patterned soft oxometalate- porous organic framework (SOM-POF) hybrid on a chip. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1431-1441.	10.3	40
38	Enhanced recognition of a nitrogen containing organic compound by adjusting the acidity of the porous organic frameworks base (JUC-Z2). <i>Journal of Materials Chemistry A</i> , 2015, 3, 2628-2633.	10.3	7
39	Great Prospects for PAF-1 and its derivatives. <i>Materials Horizons</i> , 2015, 2, 11-21.	12.2	75
40	Preparation of N-doped Porous Carbon from Porous Organic Framework for Gas Sorption. <i>Acta Chimica Sinica</i> , 2015, 73, 605.	1.4	3
41	Molecular Rotors in Porous Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1043-1047.	13.8	100
42	Electrochemical Synthesis of a Microporous Conductive Polymer Based on a Metal-Organic Framework Thin Film. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6454-6458.	13.8	119
43	Ultrahigh iodine adsorption in porous organic frameworks. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7179-7187.	10.3	219
44	Micropore engineering of carbonized porous aromatic framework (PAF-1) for supercapacitors application. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12909.	2.8	39
45	Synthesis of copolymerized porous organic frameworks with high gas storage capabilities at both high and low pressures. <i>Chemical Communications</i> , 2014, 50, 6134.	4.1	33
46	Hydrogen bonding controlled catalysis of a porous organic framework containing benzimidazole moieties. <i>New Journal of Chemistry</i> , 2014, 38, 2292.	2.8	23
47	Abstract: Molecular Rotors in Porous Organic Frameworks ( <i>Angew. Chem.</i> 4/2014). <i>Angewandte Chemie</i> , 2014, 126, 1190-1190.	2.0	0
48	Carbon Dioxide Capture in Porous Aromatic Frameworks. <i>Green Chemistry and Sustainable Technology</i> , 2014, , 115-142.	0.7	1
49	Targeted synthesis of electroactive porous organic frameworks containing triphenyl phosphine moieties. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120312.	3.4	15
50	Highly dispersed sulfur in a porous aromatic framework as a cathode for lithium-sulfur batteries. <i>Chemical Communications</i> , 2013, 49, 4905.	4.1	103
51	Ultrahigh Gas Storage both at Low and High Pressures in KOH-Activated Carbonized Porous Aromatic Frameworks. <i>Scientific Reports</i> , 2013, 3, 2420.	3.3	117
52	Porous aromatic frameworks: Synthesis, structure and functions. <i>CrystEngComm</i> , 2013, 15, 17-26.	2.6	241
53	Storage of hydrogen, methane, carbon dioxide in electron-rich porous aromatic framework (JUC-Z2). <i>Adsorption</i> , 2012, 18, 375-380.	3.0	33
54	Dehydrogenation of Ammonia Borane Confined by Low-Density Porous Aromatic Framework. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25694-25700.	3.1	30

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55	Confined Polymerization in Porous Organic Frameworks with an Ultrahigh Surface Area. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10136-10140.	13.8	63
56	Selective adsorption of carbon dioxide by carbonized porous aromatic framework (PAF). <i>Energy and Environmental Science</i> , 2012, 5, 8370.	30.8	234
57	Semiconducting and conducting transition of covalent-organic polymers induced by defects. <i>Nanotechnology</i> , 2012, 23, 395702.	2.6	4
58	Polymer-Supported and Free-Standing Metal-Organic Framework Membrane. <i>Chemistry - A European Journal</i> , 2012, 18, 10250-10253.	3.3	86
59	Targeted synthesis of an electroactive organic framework. <i>Journal of Materials Chemistry</i> , 2011, 21, 18208.	6.7	68
60	Synthesis of a porous aromatic framework for adsorbing organic pollutants application. <i>Journal of Materials Chemistry</i> , 2011, 21, 10348.	6.7	138
61	Gas storage in porous aromatic frameworks (PAFs). <i>Energy and Environmental Science</i> , 2011, 4, 3991.	30.8	429
62	A covalently-linked microporous organic-inorganic hybrid framework containing polyhedral oligomeric silsesquioxane moieties. <i>Dalton Transactions</i> , 2011, 40, 2720-2724.	3.3	77
63	Computational Design of Porous Organic Frameworks for High-Capacity Hydrogen Storage by Incorporating Lithium Tetrazolide Moieties. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2753-2756.	4.6	43
64	High-Capacity Hydrogen Storage in Porous Aromatic Frameworks with Diamond-like Structure. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 978-981.	4.6	98
65	Targeted synthesis of a 3D porous aromatic framework for selective sorption of benzene. <i>Chemical Communications</i> , 2010, 46, 291-293.	4.1	211
66	Targeted Synthesis of a Porous Aromatic Framework with High Stability and Exceptionally High Surface Area. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9457-9460.	13.8	1,272
67	A rare 3D lanthanide metal-organic framework with the rutile topology: Synthesis, structure and properties. <i>Journal of Molecular Structure</i> , 2009, 931, 25-30.	3.6	10
68	Double helix formation of poly(m-phenylene)s bearing achiral oligo(ethylene oxide) pendants and transformation into an excess of one-handed single helix through cholate binding in water. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 2509.	2.8	23
69	Synthesis and Helix Formation of Poly(m-phenylene)s Bearing Optically Active Oligo(ethylene oxide) Side Chains in Protic Media. <i>Macromolecules</i> , 2008, 41, 4506-4509.	4.8	38
70	Absolute Configuration Determination of a New Chiral Rigid Bisetherketone Macrocyclic Containing Binaphthyl and Thioether Moieties by Vibrational Circular Dichroism. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1140-1145.	2.2	10
71	LB Film Structure of Nanometer-Scale PEEKK Macrocyclic Oligomers. <i>Macromolecular Rapid Communications</i> , 2002, 23, 196-199.	3.9	3