

# Shi-Qiang Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

810  
citations

471371  
17  
h-index

552653  
26  
g-index

30  
all docs

30  
docs citations

30  
times ranked

895  
citing authors

| #  | ARTICLE                                                                                                                                                                                                    | IF  | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Soft Porous Crystal Based upon Organic Cages That Exhibit Guest-Induced Breathing and Selective Gas Separation. <i>Journal of the American Chemical Society</i> , 2019, 141, 9408-9414.                    | 6.6 | 98        |
| 2  | Halogen- $C_2H_2$ Binding in Ultramicroporous Metal-Organic Frameworks (MOFs) for Benchmark $C_2H_2/CO_2$ Separation Selectivity. <i>Chemistry - A European Journal</i> , 2020, 26, 4923-4929.             | 1.7 | 72        |
| 3  | Highly Selective, High-Capacity Separation of $p$ -Xylene from $C_8$ Aromatics by a Switching Adsorbent Layered Material. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6630-6634.          | 7.2 | 69        |
| 4  | Two nanosized $3d-4f$ clusters featuring four $Ln_6$ octahedra encapsulating a $Zn_4$ tetrahedron. <i>Chemical Communications</i> , 2015, 51, 10687-10690.                                                 | 2.2 | 53        |
| 5  | Coordination Network That Reversibly Switches between Two Nonporous Polymorphs and a High Surface Area Porous Phase. <i>Journal of the American Chemical Society</i> , 2018, 140, 15572-15576.             | 6.6 | 51        |
| 6  | Reversible Switching between Nonporous and Porous Phases of a New SIFSIX Coordination Network Induced by a Flexible Linker Ligand. <i>Journal of the American Chemical Society</i> , 2020, 142, 6896-6901. | 6.6 | 51        |
| 7  | Fabrication of Moisture-Responsive Crystalline Smart Materials for Water Harvesting and Electricity Transduction. <i>Journal of the American Chemical Society</i> , 2021, 143, 7732-7739.                  | 6.6 | 49        |
| 8  | Recyclable switching between nonporous and porous phases of a square lattice ( $b^2$ ) topology coordination network. <i>Chemical Communications</i> , 2018, 54, 7042-7045.                                | 2.2 | 37        |
| 9  | Spiers Memorial Lecture: Coordination networks that switch between nonporous and porous structures: an emerging class of soft porous crystals. <i>Faraday Discussions</i> , 2021, 231, 9-50.               | 1.6 | 34        |
| 10 | Scalable robust nano-porous Zr-based MOF adsorbent with high-capacity for sustainable water purification. <i>Separation and Purification Technology</i> , 2022, 288, 120620.                               | 3.9 | 32        |
| 11 | Stable Zr-Based Metal-Organic Framework Nanoporous Membrane for Efficient Desalination of Hypersaline Water. <i>Environmental Science &amp; Technology</i> , 2021, 55, 14917-14927.                        | 4.6 | 31        |
| 12 | Benchmark selectivity $p$ -xylene separation by a non-porous molecular solid through liquid or vapor extraction. <i>Chemical Science</i> , 2019, 10, 8850-8854.                                            | 3.7 | 29        |
| 13 | Ultramicropore Engineering by Dehydration to Enable Molecular Sieving of $H_2$ by Calcium Trimesate. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16188-16194.                             | 7.2 | 28        |
| 14 | Magnetic $3d-4f$ Chiral Clusters Showing Multimetal Site Magneto-Chiral Dichroism. <i>Journal of the American Chemical Society</i> , 2022, 144, 8837-8847.                                                 | 6.6 | 28        |
| 15 | Crystal engineering of a rectangular $b^2$ coordination network to enable xylenes selectivity over ethylbenzene. <i>Chemical Science</i> , 2020, 11, 6889-6895.                                            | 3.7 | 26        |
| 16 | Comparison of Mechanochemistry vs Solution Methods for Synthesis of 4,4'-Bipyridine-Based Coordination Polymers. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19505-19512.                  | 3.2 | 23        |
| 17 | Solvent-induced Zn(II) coordination polymers with 1, 3, 5-benzenetricarboxylic acid. <i>Journal of Molecular Structure</i> , 2019, 1184, 219-224.                                                          | 1.8 | 18        |
| 18 | $[Cu(4\text{-phenylpyridine})_4(\text{trifluoromethanesulfonate})_2]$ , a Werner complex that exhibits high selectivity for $p$ -xylene. <i>Chemical Communications</i> , 2020, 56, 1940-1943.             | 2.2 | 17        |

| #  | ARTICLE                                                                                                                                                                                                                           | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | High Working Capacity Acetylene Storage at Ambient Temperature Enabled by a Switching Adsorbent Layered Material. ACS Applied Materials & Interfaces, 2021, 13, 23877-23883.                                                      | 4.0 | 17        |
| 20 | Highly Selective, High-Capacity Separation of o-Xylene from C <sub>8</sub> Aromatics by a Switching Adsorbent Layered Material. Angewandte Chemie, 2019, 131, 6702-6706.                                                          | 1.6 | 10        |
| 21 | Tuning the switching pressure in square lattice coordination networks by metal cation substitution. Materials Advances, 2022, 3, 1240-1247.                                                                                       | 2.6 | 9         |
| 22 | Ultramicropore Engineering by Dehydration to Enable Molecular Sieving of H <sub>2</sub> by Calcium Trimesate. Angewandte Chemie, 2020, 132, 16322-16328.                                                                          | 1.6 | 8         |
| 23 | Selective Adsorption of Water, Methanol, and Ethanol by Naphthalene Diimide-Based Coordination Polymers with Constructed Open Cu <sup>2+</sup> Metal Sites and Separation of Ethanol/Acetonitrile. ACS Omega, 2019, 4, 1995-2000. | 1.6 | 7         |
| 24 | Acetylene storage performance of [Ni(4,4'-bipyridine) <sub>2</sub> (NCS) <sub>2</sub> ] <sub>n</sub> , a switching square lattice coordination network. Chemical Communications, 2022, 58, 1534-1537.                             | 2.2 | 6         |
| 25 | Reversible single-crystal to single-crystal phase transformation between a new Werner clathrate and its apohost. Dalton Transactions, 2021, 50, 12923-12930.                                                                      | 1.6 | 4         |
| 26 | Supramolecular Cages Based on a Silver Complex as Adaptable Hosts for Polyaromatic Hydrocarbons. Small, 2020, 16, 2001377.                                                                                                        | 5.2 | 3         |
| 27 | Innentitelbild: Ultramicropore Engineering by Dehydration to Enable Molecular Sieving of H <sub>2</sub> by Calcium Trimesate (Angew. Chem. 37/2020). Angewandte Chemie, 2020, 132, 15898-15898.                                   | 1.6 | 0         |