# Zhang-Wen Wei

List of Publications by Year
in descending order



| 89 | 12,397 | 57758 44 | 40979 93 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 98 | 98 | 98 | 11641 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Tuning the structure and function of metalâ€“organic frameworks via linker design. Chemical Society Reviews, 2014, 43, 5561-5593. | 38.1 | 1,792 |
| 2 | Zirconiumâ€Metalloporphyrin PCNâ€222: Mesoporous Metalâ€“Organic Frameworks with Ultrahigh Stability as Biomimetic Catalysts. Angewandte Chemie - International Edition, 2012, 51, 10307-10310. | 13.8 | 1,555 |
| 3 | Construction of Ultrastable Porphyrin Zr Metalâ€“Organic Frameworks through Linker Elimination. Journal of the American Chemical Society, 2013, 135, 17105-17110. | 13.7 | 880 |
| 4 | An Exceptionally Stable, Porphyrinic Zr Metalâ€“Organic Framework Exhibiting pH-Dependent Fluorescence. Journal of the American Chemical Society, 2013, 135, 13934-13938. | 13.7 | 646 |
| 5 | Stable metal-organic frameworks containing single-molecule traps for enzyme encapsulation. Nature Communications, 2015, 6, 5979. | 12.8 | 540 |
| 6 | Rigidifying Fluorescent Linkers by Metalâ€“Organic Framework Formation for Fluorescence Blue Shift and Quantum Yield Enhancement. Journal of the American Chemical Society, 2014, 136, 8269-8276. | 13.7 | 531 |
| 7 | Polyamineâ€Tethered Porous Polymer Networks for Carbon Dioxide Capture from Flue Gas. Angewandte Chemie - International Edition, 2012, 51, 7480-7484. | 13.8 | 518 |
| 8 | Ultrafast water sensing and thermal imaging by a metal-organic framework with switchable luminescence. Nature Communications, 2017, 8, 15985. | 12.8 | 373 |
| 9 | A Highly Stable Porphyrinic Zirconium Metalâ€“Organic Framework with shp-a Topology. Journal of the American Chemical Society, 2014, 136, 17714-17717. | 13.7 | 356 |
| 10 | Topology-Guided Design and Syntheses of Highly Stable Mesoporous Porphyrinic Zirconium Metalâ€“Organic Frameworks with High Surface Area. Journal of the American Chemical Society, 2015, 137, 413-419. | 13.7 | 352 |
| 11 | Kinetically tuned dimensional augmentation as a versatile synthetic route towards robust metalâ€“organic frameworks. Nature Communications, 2014, 5, 5723. | 12.8 | 332 |
| 12 | Metalâ€“Organic Frameworks as Biomimetic Catalysts. ChemCatChem, 2014, 6, 67-75. | 3.7 | 259 |
| 13 | A Highly Stable Zeotype Mesoporous Zirconium Metalâ€“Organic Framework with Ultralarge Pores. Angewandte Chemie - International Edition, 2015, 54, 149-154. | 13.8 | 258 |
| 14 | Modulating Electronic Structure of Metalâ€Organic Framework for Efficient Electrocatalytic Oxygen Evolution. Advanced Energy Materials, 2018, 8, 1801564. | 19.5 | 240 |
| 15 | Piezofluorochromic Metalâ€“Organic Framework: A Microscissor Lift. Journal of the American Chemical Society, 2015, 137, 10064-10067. | 13.7 | 218 |
| 16 | Metalâ€“Organic Frameworks Based on Previously Unknown Zr<sub>8</sub>/Hf<sub>8</sub> Cubic Clusters. Inorganic Chemistry, 2013, 52, 12661-12667. | 4.0 | 197 |
| 17 | Dynamic Spacer Installation for Multirole Metalâ€“Organic Frameworks: A New Direction toward Multifunctional MOFs Achieving Ultrahigh Methane Storage Working Capacity. Journal of the American Chemical Society, 2017, 139, 6034-6037. | 13.7 | 168 |
| 18 | A porous rhodium(III)-porphyrin metal-organic framework as an efficient and selective photocatalyst for CO2 reduction. Applied Catalysis B: Environmental, 2018, 231, 173-181. | 20.2 | 126 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Precise Modulation of the Breathing Behavior and Pore Surface in Zrâ€MOFs by Reversible Postâ€Synthetic Variableâ€Spacer Installation to Fineâ€Tune the Expansion Magnitude and Sorption Properties. Angewandte Chemie - International Edition, 2016, 55, 9932-9936. | 13.8 | 125 |
| 20 | Highly Efficient Visibleâ€toâ€NIR Luminescence of Lanthanide(III) Complexes with Zwitterionic Ligands Bearing Chargeâ€Transfer Character: Beyond Triplet Sensitization. Chemistry - A European Journal, 2016, 22, 2440-2451. | 3.3 | 109 |
| 21 | Design and Enantioresolution of Homochiral Fe(II)â€“Pd(II) Coordination Cages from Stereolabile Metalloligands: Stereochemical Stability and Enantioselective Separation. Journal of the American Chemical Society, 2018, 140, 18183-18191. | 13.7 | 102 |
| 22 | A stable metal cluster-metalloporphyrin MOF with high capacity for cationic dye removal. Journal of Materials Chemistry A, 2018, 6, 17698-17705. | 10.3 | 102 |
| 23 | A Metalâ€“Organic Supramolecular Box as a Universal Reservoir of UV, WL, and NIR Light for Longâ€Persistent Luminescence. Angewandte Chemie - International Edition, 2019, 58, 3481-3485. | 13.8 | 99 |
| 24 | Catalysis through Dynamic Spacer Installation of Multivariate Functionalities in Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 2589-2593. | 13.7 | 98 |
| 25 | Study of Guest Molecules in Metalâ€“Organic Frameworks by Powder X-ray Diffraction: Analysis of Difference Envelope Density. Crystal Growth and Design, 2014, 14, 5397-5407. | 3.0 | 94 |
| 26 | Nanospace Engineering of Metalâ€“Organic Frameworks through Dynamic Spacer Installation of Multifunctionalities for Efficient Separation of Ethane from Ethane/Ethylene Mixtures. Angewandte Chemie - International Edition, 2021, 60, 9680-9685. | 13.8 | 89 |
| 27 | Breathing-Ignited Long Persistent Luminescence in a Resilient Metalâ€“Organic Framework. Chemistry of Materials, 2020, 32, 841-848. | 6.7 | 87 |
| 28 | A Route to Metalâ€“Organic Frameworks through Framework Templating. Inorganic Chemistry, 2013, 52, 1164-1166. | 4.0 | 83 |
| 29 | Engineering catalytic coordination space in a chemically stable Ir-porphyrin MOF with a confinement effect inverting conventional Siâ€“H insertion chemoselectivity. Chemical Science, 2017, 8, 775-780. | 7.4 | 82 |
| 30 | Ultrathin Graphitic Carbon Nitride Nanosheets for Photocatalytic Hydrogen Evolution. ACS Applied Nano Materials, 2020, 3, 1010-1018. | 5.0 | 82 |
| 31 | Selfâ€Generation of Surface Roughness by Lowâ€Surfaceâ€Energy Alkyl Chains for Highly Stable Superhydrophobic/Superoleophilic MOFs with Multiple Functionalities. Angewandte Chemie - International Edition, 2019, 58, 17033-17040. | 13.8 | 71 |
| 32 | A new TPE-based tetrapodal ligand and its Ln(<scp>iii</scp>) complexes: multi-stimuli responsive AIE (aggregation-induced emission)/ILCT(intraligand charge transfer)-bifunctional photoluminescence and NIR emission sensitization. Dalton Transactions, 2016, 45, 943-950. | 3.3 | 67 |
| 33 | Enhancing Photocatalytic Hydrogen Production via the Construction of Robust Multivariate Tiâ€MOF/COF Composites. Angewandte Chemie - International Edition, 2022, 61, . | 13.8 | 67 |
| 34 | Rational Design and Synthesis of Porous Polymer Networks: Toward High Surface Area. Chemistry of Materials, 2014, 26, 4589-4597. | 6.7 | 66 |
| 35 | Visualization of Anisotropic and Stepwise Piezofluorochromism in an MOF Single Crystal. CheM, 2018, 4, 2658-2669. | 11.7 | 65 |
| 36 | Topology-guided design of an anionic bor-network for photocatalytic [Ru(bpy)3]2+ encapsulation. Chemical Communications, 2016, 52, 1926-1929. | 4.1 | 62 |

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|---|---|---|---|
| 37 | A Robust Metalâ€“Organic Framework Combining Open Metal Sites and Polar Groups for Methane Purification and CO<sub>2</sub>/Fluorocarbon Capture. Chemistry - A European Journal, 2017, 23, 4060-4064. | 3.3 | 62 |
| 38 | Highly porous metalâ€“organic framework sustained with 12-connected nanoscopic octahedra. Dalton Transactions, 2013, 42, 1708-1714. | 3.3 | 61 |
| 39 | Stepwise adsorption in a mesoporous metalâ€“organic framework: experimental and computational analysis. Chemical Communications, 2012, 48, 3297. | 4.1 | 60 |
| 40 | An Efficient Visible and Nearâ€Infrared (NIR) Emitting Sm<sup>III</sup> Metalâ€“Organic Framework (Smâ€MOF) Sensitized by Excitedâ€State Intramolecular Proton Transfer (ESIPT) Ligand. Chemistry - an Asian Journal, 2016, 11, 1765-1769. | 3.3 | 60 |
| 41 | Pressureâ€Induced Multiphoton Excited Fluorochromic Metalâ€“Organic Frameworks for Improving MPEF Properties. Angewandte Chemie - International Edition, 2019, 58, 14379-14385. | 13.8 | 53 |
| 42 | Embedding CoO nanoparticles in a yolkâ€“shell N-doped porous carbon support for ultrahigh and stable lithium storage. Journal of Materials Chemistry A, 2019, 7, 4036-4046. | 10.3 | 46 |
| 43 | Ligand and Metal Effects on the Stability and Adsorption Properties of an Isoreticular Series of MOFs Based on Tâ€Shaped Ligands and Paddleâ€Wheel Secondary Building Units. Chemistry - A European Journal, 2016, 22, 16147-16156. | 3.3 | 43 |
| 44 | High Water Adsorption MOFs with Optimized Poreâ€Nanospaces for Autonomous Indoor Humidity Control and Pollutants Removal. Angewandte Chemie - International Edition, 2022, 61, . | 13.8 | 42 |
| 45 | Rigidifying Effect of Metalâ€“Organic Frameworks: Protect the Conformation, Packing Mode, and Blue Fluorescence of a Soft Piezofluorochromic Compound under Pressures up to 8 MPa. Inorganic Chemistry, 2016, 55, 7311-7313. | 4.0 | 37 |
| 46 | Nanosized NIRâ€Luminescent Ln Metalâ€“Organic Cage for Picric Acid Sensing. European Journal of Inorganic Chemistry, 2017, 2017, 646-650. | 2.0 | 32 |
| 47 | Solvent- and anion-induced interconversions of metalâ€“organic cages. Chemical Communications, 2016, 52, 8745-8748. | 4.1 | 31 |
| 48 | Precise Modulation of the Breathing Behavior and Pore Surface in Zrâ€MOFs by Reversible Postâ€Synthetic Variableâ€Spacer Installation to Fineâ€Tune the Expansion Magnitude and Sorption Properties. Angewandte Chemie, 2016, 128, 10086-10090. | 2.0 | 30 |
| 49 | All Roads Lead to Rome: Tuning the Luminescence of a Breathing Catenated Zr-MOF by Programmable Multiplexing Pathways. Chemistry of Materials, 2019, 31, 5550-5557. | 6.7 | 30 |
| 50 | Coordinative-to-covalent transformation, isomerization dynamics, and logic gate application of dithienylethene based photochromic cages. Chemical Science, 2020, 11, 8885-8894. | 7.4 | 26 |
| 51 | A Porous Zn(II)-Metalâ€“Organic Framework Constructed from Fluorinated Ligands for Gas Adsorption. Crystal Growth and Design, 2017, 17, 1476-1479. | 3.0 | 25 |
| 52 | A Metalâ€“Organic Supramolecular Box as a Universal Reservoir of UV, WL, and NIR Light for Longâ€Persistent Luminescence. Angewandte Chemie, 2019, 131, 3519-3523. | 2.0 | 25 |
| 53 | Hierarchically Porous Single Nanocrystals of Bimetallic Metalâ€“Organic Framework for Nanoreactors with Enhanced Conversion. Chemistry of Materials, 2018, 30, 6458-6468. | 6.7 | 24 |
| 54 | Ultrafine Palladium Nanoparticles Stabilized in the Porous Liquid of Covalent Organic Cages for Photocatalytic Hydrogen Evolution. ACS Applied Energy Materials, 2020, 3, 12108-12114. | 5.1 | 23 |

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|---|---|---|---|
| 55 | Stepwise engineering of pore environments and enhancement of CO<sub>2</sub>/R22 adsorption capacity through dynamic spacer installation and functionality modification. Chemical Communications, 2017, 53, 11403-11406. | 4.1 | 22 |
| 56 | Tunability of fluorescent metalâ€“organic frameworks through dynamic spacer installation with multivariate fluorophores. Chemical Communications, 2018, 54, 13666-13669. | 4.1 | 22 |
| 57 | A Flexible Cu-MOF as Crystalline Sponge for Guests Determination. Inorganic Chemistry, 2019, 58, 61-64. | 4.0 | 22 |
| 58 | Nitro-Decorated Microporous Covalent Organic Framework (TpPa-NO<sub>2</sub>) for Selective Separation of C<sub>2</sub>H<sub>4</sub> from a C<sub>2</sub>H<sub>2</sub>/C<sub>2</sub>H<sub>4</sub>/CO<sub>2</sub> Mixture and CO<sub>2</sub> Capture. ACS Applied Materials & Interfaces, 2022, 14, 32105-32111. | 8.0 | 22 |
| 59 | Selfâ€Generation of Surface Roughness by Lowâ€Surfaceâ€Energy Alkyl Chains for Highly Stable Superhydrophobic/Superoleophilic MOFs with Multiple Functionalities. Angewandte Chemie, 2019, 131, 17189-17196. | 2.0 | 21 |
| 60 | Flexible Microporous Copper(II) Metalâ€“Organic Framework toward the Storage and Separation of C1â€“C3 Hydrocarbons in Natural Gas. Inorganic Chemistry, 2021, 60, 8456-8460. | 4.0 | 21 |
| 61 | Linker extension through hard-soft selective metal coordination for the construction of a non-rigid metal-organic framework. Science China Chemistry, 2013, 56, 418-422. | 8.2 | 20 |
| 62 | Elucidating Anionâ€Dependent Formation and Conversion of Pd<sub>2</sub>L<sub>4</sub> and Pd<sub>3</sub>L<sub>6</sub> Metalâ€“Organic Cages by Complementary Techniques. European Journal of Inorganic Chemistry, 2018, 2018, 80-85. | 2.0 | 20 |
| 63 | Solventâ€Induced and Temperatureâ€Promoted Aggregation of Bipyridine Platinum(II) Triangular Metallacycles and Their Nearâ€Infrared Emissive Behaviors. Chemistry - A European Journal, 2018, 24, 11611-11618. | 3.3 | 20 |
| 64 | A Rare Flexible Metalâ€“Organic Framework Based on a Tailorable Mn<sub>8</sub>â€Cluster Showing Smart Responsiveness to Aromatic Guests and Capacity for Gas Separation. Angewandte Chemie - International Edition, 2022, 61, . | 13.8 | 20 |
| 65 | A zirconium metalâ€“organic framework with an exceptionally high volumetric surface area. Dalton Transactions, 2017, 46, 14270-14276. | 3.3 | 19 |
| 66 | Dynamic Coordination Chemistry of Fluorinated Zrâ€MOFs: Synthetic Control and Reassembly/Disassembly Beyond de Novo Synthesis to Tune the Structure and Property. Chemistry - A European Journal, 2020, 26, 8254-8261. | 3.3 | 16 |
| 67 | A Porous and Stable Porphyrin Metalâ€Organic Framework as an Efficient Catalyst towards Visibleâ€Lightâ€Mediated Aerobic Crossâ€Dehydrogenativeâ€Coupling Reactions. Chemistry - an Asian Journal, 2020, 15, 1118-1124. | 3.3 | 15 |
| 68 | Enhancing Photocatalytic Hydrogen Production via the Construction of Robust Multivariate Tiâ€MOF/COF Composites. Angewandte Chemie, 2022, 134, . | 2.0 | 15 |
| 69 | A Series of Functionalized Zirconium Metalâ€“Organic Cages for Efficient CO<sub>2</sub>/N<sub>2</sub> Separation. Inorganic Chemistry, 2021, 60, 17440-17444. | 4.0 | 15 |
| 70 | A Flexibleâ€“Robust Copper(II) Metalâ€“Organic Framework Constructed from a Fluorinated Ligand for CO<sub>2</sub>/R22 Capture. Inorganic Chemistry, 2020, 59, 14856-14860. | 4.0 | 14 |
| 71 | Tuning colorful luminescence of iridium(III) complexes from blue to near infrared. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 379, 99-104. | 3.9 | 13 |
| 72 | Pressureâ€Induced Multiphoton Excited Fluorochromic Metalâ€“Organic Frameworks for Improving MPEF Properties. Angewandte Chemie, 2019, 131, 14517-14523. | 2.0 | 12 |

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|---|---|---|---|
| 73 | Pore-Nanospace Engineering of Mixed-Ligand Metalâ€“Organic Frameworks for High Adsorption of Hydrofluorocarbons and Hydrochlorofluorocarbons. Chemistry of Materials, 2022, 34, 5116-5124. | 6.7 | 11 |
| 74 | Synthesis, Structure, and Fungicidal Activity of Organotin Dithiocarbamates Derived from Pyridinamines and Aryl Diamines. Heteroatom Chemistry, 2014, 25, 274-281. | 0.7 | 10 |
| 75 | Framework disorder and its effect on selective hysteretic sorption of a T-shaped azole-based metalâ€“organic framework. IUCrJ, 2019, 6, 85-95. | 2.2 | 10 |
| 76 | Nanospace Engineering of Metalâ€“Organic Frameworks through Dynamic Spacer Installation of Multifunctionalities for Efficient Separation of Ethane from Ethane/Ethylene Mixtures. Angewandte Chemie, 2021, 133, 9766-9771. | 2.0 | 9 |
| 77 | Metal Effects on the Framework Stability and Adsorption Property of a Series of Isoreticular Metalâ€“Organic Frameworks Based on an in-Situ Generated T-Shaped Ligand. Crystal Growth and Design, 2019, 19, 300-304. | 3.0 | 8 |
| 78 | A novel Co-O cluster based coordination polymer for efficient hydrogen production photocatalysis. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 387, 112137. | 3.9 | 8 |
| 79 | Lanthanide Supermolecular Transformers Induced by K<sup>+</sup> and CO<sub>2</sub>. Inorganic Chemistry, 2021, 60, 2764-2770. | 4.0 | 7 |
| 80 | High Water Adsorption MOFs with Optimized Poreâ€Nanospaces for Autonomous Indoor Humidity Control and Pollutants Removal. Angewandte Chemie, 2022, 134, . | 2.0 | 5 |
| 81 | Cage-opening supramolecular isomerism in Cu(II) complexes. Inorganic Chemistry Communication, 2017, 86, 223-226. | 3.9 | 4 |
| 82 | Confinement of a Auâ€“N-heterocyclic carbene in a Pd<sub>6</sub>L<sub>12</sub> metalâ€“organic cage. RSC Advances, 2020, 10, 39323-39327. | 3.6 | 4 |
| 83 | Titelbild: Zirconium-Metalloporphyrin PCN-222: Mesoporous Metal-Organic Frameworks with Ultrahigh Stability as Biomimetic Catalysts (Angew. Chem. 41/2012). Angewandte Chemie, 2012, 124, 10343-10343. | 2.0 | 3 |
| 84 | Diverse binding of important anions in 1-D tricopper anion coordination polymer (ACP) architectures. CrystEngComm, 2017, 19, 2349-2358. | 2.6 | 3 |
| 85 | Unusual adsorption behaviours and responsive structural dynamics via selective gate effects of an hourglass porous metalâ€“organic framework. RSC Advances, 2019, 9, 37222-37231. | 3.6 | 3 |
| 86 | Biological study of metalâ€“organic frameworks towards human ovarian cancer cell lines. Canadian Journal of Chemistry, 2016, 94, 380-385. | 1.1 | 2 |
| 87 | A Rare Flexible Metalâ€“Organic Framework Based on a Tailorable Mn<sub>8</sub>â€Cluster Showing Smart Responsiveness to Aromatic Guests and Capacity for Gas Separation. Angewandte Chemie, 2022, 134, . | 2.0 | 2 |
| 88 | Structural tuning of coordination polymers by 4-connecting metal node and secondary building process. Chinese Chemical Letters, 2019, 30, 1297-1301. | 9.0 | 1 |
| 89 | InnenrÃ¼cktitelbild: Enhancing Photocatalytic Hydrogen Production via the Construction of Robust Multivariate Tiâ€MOF/COF Composites (Angew. Chem. 3/2022). Angewandte Chemie, 2022, 134, . | 2.0 | 0 |