

# Covalent organic frameworks: a materials platform for

Nature Reviews Materials

1,

DOI: [10.1038/natrevmats.2016.68](https://doi.org/10.1038/natrevmats.2016.68)

Citation Report

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Synthesis of chemically stable covalent organic frameworks in water. <i>IUCrJ</i> , 2016, 3, 391-392.   | 1.0  | 3         |
| 2  | Flexibility Matters: Cooperative Active Sites in Covalent Organic Framework and Threaded Ionic Polymer. <i>Journal of the American Chemical Society</i> , 2016, 138, 15790-15796.                                     | 6.6  | 414       |
| 3  | Metalation of a Mesoporous Three-Dimensional Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2016, 138, 15134-15137.  | 6.6  | 309       |
| 4  | Nanoscale tailor-made membranes for precise and rapid molecular sieve separation. <i>Nanoscale</i> , 2017, 9, 2942-2957.  | 2.8  | 83        |
| 5  | Porous organic polymers as emerging new materials for organic photovoltaic applications: current status and future challenges. <i>Materials Horizons</i> , 2017, 4, 546-556.  | 6.4  | 125       |
| 6  | Stable Covalent Organic Frameworks for Exceptional Mercury Removal from Aqueous Solutions. <i>Journal of the American Chemical Society</i> , 2017, 139, 2428-2434.  | 6.6  | 519       |
| 7  | Precise elucidations of stacking manners of hydrogen-bonded two-dimensional organic frameworks composed of X-shaped $\pi$ -conjugated systems. <i>CrystEngComm</i> , 2017, 19, 4892-4898.                             | 1.3  | 49        |
| 8  | Metal-like Boronic-Organic Frameworks: A Design and Computation. <i>Inorganic Chemistry</i> , 2017, 56, 2490-2495.  | 1.9  | 3         |
| 9  | Flexible monomer-based covalent organic frameworks: design, structure and functions. <i>CrystEngComm</i> , 2017, 19, 4868-4871.   | 1.3  | 18        |
| 10 | An Elastic Hydrogen-Bonded Cross-Linked Organic Framework for Effective Iodine Capture in Water. <i>Journal of the American Chemical Society</i> , 2017, 139, 7172-7175.  | 6.6  | 218       |
| 11 | Highly Efficient Multiple-Anchored Fluorescent Probe for the Detection of Aniline Vapor Based on Synergistic Effect: Chemical Reaction and PET. <i>ACS Sensors</i> , 2017, 2, 687-694.                                | 4.0  | 34        |
| 12 | Well-Defined 2D Covalent Organic Polymers for Energy Electrocatalysis. <i>ACS Energy Letters</i> , 2017, 2, 1308-1314.  | 8.8  | 109       |
| 13 | Electrostatic Design of 3D Covalent Organic Networks. <i>Advanced Materials</i> , 2017, 29, 1700888.  | 11.1 | 8         |
| 14 | Covalent Organic Frameworks as a Platform for Multidimensional Polymerization. <i>ACS Central Science</i> , 2017, 3, 533-543.   | 5.3  | 251       |
| 15 | Hexaazatriphenylene-Based Hydrogen-Bonded Organic Framework with Permanent Porosity and Single-Crystallinity. <i>Chemistry - A European Journal</i> , 2017, 23, 11611-11619.  | 1.7  | 80        |
| 16 | 3D Porphyrin-Based Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 8705-8709.   | 6.6  | 369       |
| 17 | Two-Dimensional Covalent Organic Frameworks for Optoelectronics and Energy Storage. <i>ChemNanoMat</i> , 2017, 3, 373-391.  | 1.5  | 106       |
| 18 | Ultrathin Two-Dimensional Covalent Organic Framework Nanosheets: Preparation and Application in Highly Sensitive and Selective DNA Detection. <i>Journal of the American Chemical Society</i> , 2017, 139, 8698-8704. | 6.6  | 440       |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Ionic Covalent Organic Frameworks: Design of a Charged Interface Aligned on 1D Channel Walls and Its Unusual Electrostatic Functions. <i>Angewandte Chemie</i> , 2017, 129, 5064-5068.  | 1.6  | 33        |
| 20 | Rapid, Low Temperature Formation of Imine-Linked Covalent Organic Frameworks Catalyzed by Metal Triflates. <i>Journal of the American Chemical Society</i> , 2017, 139, 4999-5002.  | 6.6  | 276       |
| 21 | Ionic Covalent Organic Frameworks: Design of a Charged Interface Aligned on 1D Channel Walls and Its Unusual Electrostatic Functions. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4982-4986.                           | 7.2  | 217       |
| 22 | Applications of covalent organic frameworks (COFs): From gas storage and separation to drug delivery. <i>Chinese Chemical Letters</i> , 2017, 28, 1135-1143.  | 4.8  | 198       |
| 23 | Exfoliation of Covalent Organic Frameworks into Few-Layer Redox-Active Nanosheets as Cathode Materials for Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2017, 139, 4258-4261.                               | 6.6  | 775       |
| 24 | Redox-Active Polymers for Energy Storage Nanoarchitectonics. <i>Joule</i> , 2017, 1, 739-768.   | 11.7 | 400       |
| 25 | A Novel Strategy to Functionalize Covalent Organic Frameworks for High-Energy Rechargeable Lithium Organic Batteries via Graft Polymerization in Nano-Channels. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 1382-1387. | 2.0  | 32        |
| 26 | Fluorinated, Sulfur-Rich, Covalent Triazine Frameworks for Enhanced Confinement of Polysulfides in Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 37731-37738.                                      | 4.0  | 164       |
| 27 | A versatile covalent organic framework-based platform for sensing biomolecules. <i>Chemical Communications</i> , 2017, 53, 11469-11471.   | 2.2  | 148       |
| 28 | Emerging crystalline porous materials as a multifunctional platform for electrochemical energy storage. <i>Chemical Society Reviews</i> , 2017, 46, 6927-6945.  | 18.7 | 347       |
| 29 | Single-Site Photocatalytic H <sub>2</sub> Evolution from Covalent Organic Frameworks with Molecular Cobaloxime Co-Catalysts. <i>Journal of the American Chemical Society</i> , 2017, 139, 16228-16234.                                  | 6.6  | 292       |
| 30 | Nucleation and Growth of Covalent Organic Frameworks from Solution: The Example of COF-5. <i>Journal of the American Chemical Society</i> , 2017, 139, 16310-16318.   | 6.6  | 121       |
| 31 | High Hole-Mobility Molecular Layer Made from Strong Electron Acceptor Molecules with Metal Adatoms. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5366-5371.  | 2.1  | 15        |
| 32 | Hybrid Triazine-Boron Two-Dimensional Covalent Organic Frameworks: Synthesis, Characterization, and DFT Approach to Layer Interaction Energies. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 31129-31141.                   | 4.0  | 20        |
| 33 | Atomic mechanism for the growth of wafer-scale single-crystal graphene: theoretical perspective and scanning tunneling microscopy investigations. <i>2D Materials</i> , 2017, 4, 042002.  | 2.0  | 11        |
| 34 | Spiers Memorial Lecture: : Progress and prospects of reticular chemistry. <i>Faraday Discussions</i> , 2017, 201, 9-45.   | 1.6  | 85        |
| 35 | Synthesis of 2D Imine-Linked Covalent Organic Frameworks through Formal Transimination Reactions. <i>Journal of the American Chemical Society</i> , 2017, 139, 12911-12914.   | 6.6  | 204       |
| 36 | Catalysis and CO <sub>2</sub> Capture by Palladium-Incorporated Covalent Organic Frameworks. <i>ChemPlusChem</i> , 2017, 82, 1253-1265.   | 1.3  | 46        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | Melamine-based mesoporous organic polymers as metal-free heterogeneous catalyst: Effect of hydroxyl on CO <sub>2</sub> capture and conversion. <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 22, 9-14. | 3.3  | 63        |
| 38 | A porous, crystalline truxene-based covalent organic framework and its application in humidity sensing. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21820-21827.                                       | 5.2  | 115       |
| 39 | Functional nanonetwork-structured polymers with inbuilt poly(acrylic acid) linings for enhanced adsorption. <i>Polymer Chemistry</i> , 2017, 8, 4771-4775.  | 1.9  | 35        |
| 40 | Multifunctional porous Tröger's base polymers with tetraphenylethene units: CO <sub>2</sub> adsorption, luminescence and sensing properties. <i>Polymer Chemistry</i> , 2017, 8, 4842-4848.                   | 1.9  | 35        |
| 41 | A Chiral Metal-Organic Material that Enables Enantiomeric Identification and Purification. <i>CheM</i> , 2017, 3, 281-289.  | 5.8  | 97        |
| 42 | Chiral covalent organic frameworks for asymmetric catalysis and chiral separation. <i>Science China Chemistry</i> , 2017, 60, 1015-1022.  | 4.2  | 79        |
| 43 | Thiol grafted imine-based covalent organic frameworks for water remediation through selective removal of Hg(II). <i>Journal of Materials Chemistry A</i> , 2017, 5, 17973-17981.                              | 5.2  | 186       |
| 44 | Redox Active Metal- and Covalent Organic Frameworks for Energy Storage: Balancing Porosity and Electrical Conductivity. <i>Chemistry - A European Journal</i> , 2017, 23, 16419-16431.                        | 1.7  | 121       |
| 45 | Nanostructured Conjugated Polymers: Toward High-Performance Organic Electrodes for Rechargeable Batteries. <i>ACS Energy Letters</i> , 2017, 2, 1985-1996.  | 8.8  | 289       |
| 46 | Two-Dimensional Materials as Prospective Scaffolds for Mixed-Matrix Membrane-Based CO <sub>2</sub> Separation. <i>ChemSusChem</i> , 2017, 10, 3304-3316.  | 3.6  | 77        |
| 47 | Recent advances in AlEgen-based luminescent metal-organic frameworks and covalent organic frameworks. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2474-2486.  | 3.2  | 136       |
| 48 | Two-dimensional sp <sup>2</sup> carbon-conjugated covalent organic frameworks. <i>Science</i> , 2017, 357, 673-676.   | 6.0  | 866       |
| 49 | Systematic Engineering of Single Substitution in Zirconium Metal-Organic Frameworks toward High-Performance Catalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 18590-18597.              | 6.6  | 102       |
| 50 | Three-Dimensional Anionic Cyclodextrin-Based Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16313-16317.   | 7.2  | 290       |
| 51 | Three-Dimensional Anionic Cyclodextrin-Based Covalent Organic Frameworks. <i>Angewandte Chemie</i> , 2017, 129, 16531-16535.  | 1.6  | 54        |
| 52 | Photoactive and Conducting Covalent Organic Frameworks. <i>Advanced Energy Materials</i> , 2017, 7, 1700387.  | 10.2 | 168       |
| 53 | A three-dimensional porphyrin-based porous organic polymer with excellent biomimetic catalytic performance. <i>Polymer Chemistry</i> , 2017, 8, 4327-4331.  | 1.9  | 32        |
| 54 | Tessellated multiporous two-dimensional covalent organic frameworks. <i>Nature Reviews Chemistry</i> , 2017, 1, .   | 13.8 | 319       |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 55 | Heteroatom-doped Carbon Spheres from Hierarchical Hollow Covalent Organic Framework Precursors for Metal-Free Catalysis. <i>ChemSusChem</i> , 2017, 10, 4921-4926.  | 3.6  | 75        |
| 56 | Ionic Conductivity and Potential Application for Fuel Cell of a Modified Imine-Based Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2017, 139, 10079-10086.  | 6.6  | 198       |
| 57 | Effects of Lateral and Terminal Chains of X-Shaped Bolapolyphiles with Oligo(phenylene ethynylene) Cores on Self-Assembly Behaviour. Part 1: Transition between Amphiphilic and Polyphilic Self-Assembly in the Bulk. <i>Polymers</i> , 2017, 9, 471. | 2.0  | 14        |
| 58 | Mixed Matrix Membranes for Natural Gas Upgrading: Current Status and Opportunities. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 4139-4169.   | 1.8  | 110       |
| 59 | Tunable Crystallinity and Charge Transfer in Two-Dimensional G-Quadruplex Organic Frameworks. <i>Angewandte Chemie</i> , 2018, 130, 4049-4053.  | 1.6  | 10        |
| 60 | Constructing synergistic groups in porous aromatic frameworks for the selective removal and recovery of lead(II) ions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5202-5207.  | 5.2  | 57        |
| 61 | Nitrogen-Enriched Carbon/CNT Composites Based on Schiff-Base Networks: Ultrahigh N Content and Enhanced Lithium Storage Properties. <i>Small</i> , 2018, 14, e1703569.  | 5.2  | 31        |
| 62 | Postsynthetic Functionalization of Three-Dimensional Covalent Organic Frameworks for Selective Extraction of Lanthanide Ions. <i>Angewandte Chemie</i> , 2018, 130, 6150-6156.  | 1.6  | 67        |
| 63 | Template Conversion of Covalent Organic Frameworks into 2D Conducting Nanocarbons for Catalyzing Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2018, 30, e1706330.   | 11.1 | 151       |
| 64 | Ground-State Charge-Density Distribution in a Crystal of the Luminescent <i>ortho</i> -Phenylenediboronic Acid Complex with 8-Hydroxyquinoline. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4508-4520.  | 1.1  | 4         |
| 65 | Porphyrin Organic Framework Hollow Spheres and Their Applications in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2018, 30, e1707483.  | 11.1 | 145       |
| 66 | Synthesis of Crystalline Porous Organic Salts with High Proton Conductivity. <i>Angewandte Chemie</i> , 2018, 130, 5443-5447.   | 1.6  | 41        |
| 67 | Carbazole-decorated covalent triazine frameworks: Novel nonmetal catalysts for carbon dioxide fixation and oxygen reduction reaction. <i>Journal of Catalysis</i> , 2018, 362, 1-9.   | 3.1  | 96        |
| 68 | Hollow polymer nanocapsules: synthesis, properties, and applications. <i>Polymer Chemistry</i> , 2018, 9, 2059-2081.  | 1.9  | 58        |
| 69 | Dissecting Porosity in Molecular Crystals: Influence of Geometry, Hydrogen Bonding, and [π-π] Stacking on the Solid-State Packing of Fluorinated Aromatics. <i>Journal of the American Chemical Society</i> , 2018, 140, 6014-6026.                   | 6.6  | 106       |
| 70 | Boosting lithium storage in covalent organic framework via activation of 14-electron redox chemistry. <i>Nature Communications</i> , 2018, 9, 576.  | 5.8  | 497       |
| 71 | A fluorescent microporous crystalline dendrimer discriminates vapour molecules. <i>Chemical Communications</i> , 2018, 54, 2534-2537.   | 2.2  | 19        |
| 72 | Postsynthetic Functionalization of Three-Dimensional Covalent Organic Frameworks for Selective Extraction of Lanthanide Ions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6042-6048.   | 7.2  | 255       |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 73 | Advances in covalent organic frameworks in separation science. <i>Journal of Chromatography A</i> , 2018, 1542, 1-18.  | 1.8  | 213       |
| 74 | Covalent Organic Framework with Frustrated Bonding Network for Enhanced Carbon Dioxide Storage. <i>Chemistry of Materials</i> , 2018, 30, 1762-1768.   | 3.2  | 169       |
| 75 | Lithium doping on 2D squaraine-bridged covalent organic polymers for enhancing adsorption properties: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6487-6499.                 | 1.3  | 15        |
| 76 | A Molecular Pillar Approach To Grow Vertical Covalent Organic Framework Nanosheets on Graphene: Hybrid Materials for Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1034-1038. | 7.2  | 198       |
| 77 | Tunable Crystallinity and Charge Transfer in Two-Dimensional Quadruplex Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3985-3989.  | 7.2  | 26        |
| 78 | New Layered Triazine Framework/Exfoliated 2D Polymer with Superior Sodium Storage Properties. <i>Advanced Materials</i> , 2018, 30, 1705401.   | 11.1 | 177       |
| 79 | Diacetylene Functionalized Covalent Organic Framework (COF) for Photocatalytic Hydrogen Generation. <i>Journal of the American Chemical Society</i> , 2018, 140, 1423-1427.                                  | 6.6  | 646       |
| 80 | Reticular Electronic Tuning of Porphyrin Active Sites in Covalent Organic Frameworks for Electrocatalytic Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , 2018, 140, 1116-1122.  | 6.6  | 457       |
| 81 | Recent advances of hexaazatriphenylene (HAT) derivatives: Their applications in self-assembly and porous organic materials. <i>Tetrahedron Letters</i> , 2018, 59, 592-604.                                  | 0.7  | 28        |
| 82 | H <sub>2</sub> Evolution with Covalent Organic Framework Photocatalysts. <i>ACS Energy Letters</i> , 2018, 3, 400-409.   | 8.8  | 318       |
| 83 | Porous Organic Polymers for Polysulfide Trapping in Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1707597.  | 7.8  | 154       |
| 84 | Supramolecular Reassembly of Self-Exfoliated Ionic Covalent Organic Nanosheets for Label-Free Detection of Double-Stranded DNA. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8443-8447.      | 7.2  | 140       |
| 85 | Benzoxazole-Linked Ultrastable Covalent Organic Frameworks for Photocatalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 4623-4631.   | 6.6  | 555       |
| 86 | Fast, Ambient Temperature and Pressure Ionothermal Synthesis of Three-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 4494-4498.                       | 6.6  | 283       |
| 87 | Synthesis of Crystalline Porous Organic Salts with High Proton Conductivity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5345-5349.   | 7.2  | 162       |
| 88 | Layered conductive polymer-inorganic anion network for high-performance ultra-loading capacitive electrodes. <i>Energy Storage Materials</i> , 2018, 14, 90-99.  | 9.5  | 20        |
| 89 | Hypercrosslinked Polymers: A Review. <i>Polymer Reviews</i> , 2018, 58, 1-41.  | 5.3  | 194       |
| 90 | Adsorptive removal of anti-inflammatory drugs from water using graphene oxide/metal-organic framework composites. <i>Chemical Engineering Journal</i> , 2018, 335, 74-81.                                    | 6.6  | 127       |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 91  | Structural design, preparation and characterization of light, isotropic and robust statically determined organic frameworks as reusable adsorbents. <i>Chemical Engineering Journal</i> , 2018, 335, 887-895. | 6.6  | 16        |
| 92  | RÄ¶hrenfÄ¶rmige Selbstorganisation kovalenter organischer Netzwerke. <i>Angewandte Chemie</i> , 2018, 130, 856-860.   | 1.6  | 28        |
| 93  | Microtubular Self-Assembly of Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 846-850.  | 7.2  | 158       |
| 94  | 2D Organic Materials for Optoelectronic Applications. <i>Advanced Materials</i> , 2018, 30, 1702415.  | 11.1 | 266       |
| 95  | Two-dimensional polymer-based nanosheets for electrochemical energy storage and conversion. <i>Journal of Energy Chemistry</i> , 2018, 27, 99-116.  | 7.1  | 35        |
| 96  | High and Reversible Lithium Ion Storage in Self-Exfoliated Triazole-Trimethyl Phloroglucinol-Based Covalent Organic Nanosheets. <i>Advanced Energy Materials</i> , 2018, 8, 1702170.                          | 10.2 | 174       |
| 97  | Porous dipeptide crystals as volatile-drug vessels. <i>Chemical Communications</i> , 2018, 54, 148-151.   | 2.2  | 16        |
| 98  | Sterically crowded hydrogen-bonded hexagonal network frameworks. <i>Materials Chemistry Frontiers</i> , 2018, 2, 338-346.   | 3.2  | 22        |
| 99  | A design strategy for the construction of 2D heteropore covalent organic frameworks based on the combination of $C_{2v}$ and $D_{3h}$ symmetric building blocks. <i>Polymer Chemistry</i> , 2018, 9, 279-283. | 1.9  | 19        |
| 100 | Covalent Organic Frameworks and Cage Compounds: Design and Applications of Polymeric and Discrete Organic Scaffolds. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4850-4878.                  | 7.2  | 405       |
| 101 | Kovalente organische Netzwerke und KÄ¶figverbindungen: Design und Anwendungen von polymeren und diskreten organischen GerÄ¶sten. <i>Angewandte Chemie</i> , 2018, 130, 4942-4972.                             | 1.6  | 97        |
| 102 | A Molecular Pillar Approach To Grow Vertical Covalent Organic Framework Nanosheets on Graphene: Hybrid Materials for Energy Storage. <i>Angewandte Chemie</i> , 2018, 130, 1046-1050.                         | 1.6  | 40        |
| 103 | Selective MeCN/EtCN sorption and preferential inclusion of substituted benzenes in a cage structure with arylsulfonamide-armed anthraquinones. <i>CrystEngComm</i> , 2018, 20, 17-24.                         | 1.3  | 6         |
| 104 | Hybridization of MOFs and COFs: A New Strategy for Construction of MOF@COF Core-Shell Hybrid Materials. <i>Advanced Materials</i> , 2018, 30, 1705454.  | 11.1 | 318       |
| 105 | Covalent Organic Frameworks: Structures, Synthesis, and Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1705553.   | 7.8  | 892       |
| 106 | Structural Elucidation of Covalent Organic Polymers (COP) and Their Linker Effect on Gas Adsorption Performance via Density Functional Theory Approach. <i>ChemistrySelect</i> , 2018, 3, 8294-8305.          | 0.7  | 6         |
| 107 | Electronic Noses: From Advanced Materials to Sensors Aided with Data Processing. <i>Advanced Materials Technologies</i> , 2019, 4, 1800488.   | 3.0  | 227       |
| 108 | Metal-Organic Frameworks and Covalent Organic Frameworks as Platforms for Photodynamic Therapy. <i>Comments on Inorganic Chemistry</i> , 2018, 38, 238-293.   | 3.0  | 24        |



| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 109 | Facile dual doping strategy via carbonization of covalent organic frameworks to prepare hierarchically porous carbon spheres for membrane capacitive deionization. <i>Chemical Communications</i> , 2018, 54, 14009-14012.   | 2.2 | 74        |
| 110 | Phase transformation in two-dimensional covalent organic frameworks under compressive loading. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29462-29471.   | 1.3 | 15        |
| 111 | Chlorine-functionalized keto-enamine-based covalent organic frameworks for CO <sub>2</sub> separation and capture. <i>CrystEngComm</i> , 2018, 20, 7621-7625.  | 1.3 | 33        |
| 112 | Host-Guest Chemistry in Surface-Confined Two-Dimensional Covalent Organic Frameworks. , 2018, , 285-294.   |     | 0         |
| 113 | A Cu(II)-anchored unzipped covalent triazine framework with peroxidase-mimicking properties for molecular imprinting-based electrochemiluminescent detection of sulfaquinoxaline. <i>Mikrochimica Acta</i> , 2018, 185, 546. | 2.5 | 17        |
| 114 | Insights into High Conductivity of the Two-Dimensional Iodine-Oxidized sp <sup>2</sup> -c-COF. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 43595-43602.  | 4.0 | 37        |
| 115 | Highly Fluoro-Substituted Covalent Organic Framework and Its Application in Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42233-42240.   | 4.0 | 127       |
| 116 | Urea-Linked Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 16438-16441.   | 6.6 | 140       |
| 117 | Azo-Bridged Calix[4]resorcinarene-Based Porous Organic Frameworks with Highly Efficient Enrichment of Volatile Iodine. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 17402-17409.                              | 3.2 | 98        |
| 118 | Dynamic Diels-Alder reactions of maleimide-furan amphiphiles and their fluorescence ON/OFF behaviours. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7871-7877.  | 1.5 | 19        |
| 119 | Approaches and challenges in the synthesis of three-dimensional covalent-organic frameworks. <i>Communications Chemistry</i> , 2018, 1, .  | 2.0 | 109       |
| 120 | Well-Defined Metal Nanoparticles@Covalent Organic Framework Yolk-Shell Nanocages by ZIF-8 Template as Catalytic Nanoreactors. <i>Small</i> , 2019, 15, e1804419.   | 5.2 | 87        |
| 121 | An AI-Egen-based 3D covalent organic framework for white light-emitting diodes. <i>Nature Communications</i> , 2018, 9, 5234.  | 5.8 | 293       |
| 122 | Porous Organic Polymers: An Emerged Platform for Photocatalytic Water Splitting. <i>Frontiers in Chemistry</i> , 2018, 6, 592.   | 1.8 | 51        |
| 123 | Facile Synthesis of Hypercrosslinked Hollow Microporous Organic Capsules for Electrochemical Sensing of Cu <sup>II</sup> Ions. <i>Chemistry - A European Journal</i> , 2019, 25, 548-555.                                    | 1.7 | 22        |
| 124 | Sulfone-containing covalent organic frameworks for photocatalytic hydrogen evolution from water. <i>Nature Chemistry</i> , 2018, 10, 1180-1189.  | 6.6 | 883       |
| 125 | Covalent Organic Frameworks: Promising Materials as Heterogeneous Catalysts for C-C Bond Formations. <i>Catalysts</i> , 2018, 8, 404.  | 1.6 | 38        |
| 126 | Size-controlled synthesis of CdS nanoparticles confined on covalent triazine-based frameworks for durable photocatalytic hydrogen evolution under visible light. <i>Nanoscale</i> , 2018, 10, 19509-19516.                   | 2.8 | 108       |



| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 127 | <i>stk</i> : A python toolkit for supramolecular assembly. Journal of Computational Chemistry, 2018, 39, 1931-1942.  | 1.5 | 49        |
| 128 | Layer-by-layer preparation of 3D covalent organic framework/silica composites for chromatographic separation of position isomers. Chemical Communications, 2018, 54, 11765-11768.                      | 2.2 | 67        |
| 129 | Removal of GenX and Perfluorinated Alkyl Substances from Water by Amine-Functionalized Covalent Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 12677-12681.                  | 6.6 | 279       |
| 130 | Anthracene-Resorcinol Derived Covalent Organic Framework as Flexible White Light Emitter. Journal of the American Chemical Society, 2018, 140, 13367-13374.  | 6.6 | 179       |
| 131 | Designed synthesis of stable light-emitting two-dimensional sp <sup>2</sup> carbon-conjugated covalent organic frameworks. Nature Communications, 2018, 9, 4143.                                       | 5.8 | 319       |
| 132 | Covalent Organic Frameworks with Chirality Enriched by Biomolecules for Efficient Chiral Separation. Angewandte Chemie, 2018, 130, 16996-17001.  | 1.6 | 20        |
| 133 | 2D Covalent Organic Frameworks as Intrinsic Photocatalysts for Visible Light-Driven CO <sub>2</sub> Reduction. Journal of the American Chemical Society, 2018, 140, 14614-14618.                       | 6.6 | 461       |
| 134 | Covalent Organic Frameworks with Chirality Enriched by Biomolecules for Efficient Chiral Separation. Angewandte Chemie - International Edition, 2018, 57, 16754-16759.                                 | 7.2 | 200       |
| 135 | Flexible Films of Covalent Organic Frameworks with Ultralow Dielectric Constants under High Humidity. Angewandte Chemie - International Edition, 2018, 57, 16501-16505.                                | 7.2 | 128       |
| 136 | Flexible Films of Covalent Organic Frameworks with Ultralow Dielectric Constants under High Humidity. Angewandte Chemie, 2018, 130, 16739-16743.   | 1.6 | 25        |
| 137 | Heteropore covalent organic frameworks: a new class of porous organic polymers with well-ordered hierarchical porosities. Organic Chemistry Frontiers, 2018, 5, 3341-3356.                             | 2.3 | 62        |
| 138 | Bringing Porous Organic and Carbon-Based Materials toward Thin-Film Applications. Advanced Functional Materials, 2018, 28, 1801545.  | 7.8 | 53        |
| 139 | Recent advances in facile synthesis and applications of covalent organic framework materials as superior adsorbents in sample pretreatment. TrAC - Trends in Analytical Chemistry, 2018, 108, 154-166. | 5.8 | 151       |
| 141 | Light-Emitting Covalent Organic Frameworks: Fluorescence Improving via Pinpoint Surgery and Selective Switch-On Sensing of Anions. Journal of the American Chemical Society, 2018, 140, 12374-12377.   | 6.6 | 191       |
| 142 | Ultrathin two-dimensional covalent organic framework nanoprobe for interference-resistant two-photon fluorescence bioimaging. Chemical Science, 2018, 9, 8402-8408.                                    | 3.7 | 134       |
| 143 | Benzotrithiophene-Based Covalent Organic Frameworks: Construction and Structure Transformation under Ionothermal Condition. Journal of the American Chemical Society, 2018, 140, 11618-11622.          | 6.6 | 76        |
| 144 | Liquid-interface-assisted synthesis of covalent-organic and metal-organic two-dimensional crystalline polymers. Npj 2D Materials and Applications, 2018, 2, .  | 3.9 | 47        |
| 145 | Structural reorganization in a hydrogen-bonded organic framework. New Journal of Chemistry, 2018, 42, 16138-16143.   | 1.4 | 5         |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 146 | Formation of a Macrocyclic Macrocyclic Superstructure with All-gauche Conformation by Reversible Radical Association. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9023-9027.                                      | 7.2  | 35        |
| 147 | Ion Conduction in Polyelectrolyte Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 7429-7432.   | 6.6  | 227       |
| 148 | Exploring Applications of Covalent Organic Frameworks: Homogeneous Reticulation of Radicals for Dynamic Nuclear Polarization. <i>Journal of the American Chemical Society</i> , 2018, 140, 6969-6977.                              | 6.6  | 62        |
| 149 | Selective pore opening and gating of the pillared layer metal-organic framework DUT-8(Ni) upon liquid phase multi-component adsorption. <i>Microporous and Mesoporous Materials</i> , 2018, 271, 169-174.                          | 2.2  | 16        |
| 150 | A Review of Electrocatalytic Reduction of Dinitrogen to Ammonia under Ambient Conditions. <i>Advanced Energy Materials</i> , 2018, 8, 1800369.   | 10.2 | 950       |
| 151 | Porous organic materials with ultra-small pores and sulfonic functionality for xenon capture with exceptional selectivity. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11163-11168.   | 5.2  | 47        |
| 152 | Formation of a Macrocyclic Macrocyclic Superstructure with All-gauche Conformation by Reversible Radical Association. <i>Angewandte Chemie</i> , 2018, 130, 9161-9165.   | 1.6  | 13        |
| 153 | Exceptional Iodine Capture in 2D Covalent Organic Frameworks. <i>Advanced Materials</i> , 2018, 30, e1801991.  | 11.1 | 281       |
| 154 | Mechanistic investigations into the cyclization and crystallization of benzobisoxazole-linked two-dimensional covalent organic frameworks. <i>Chemical Science</i> , 2018, 9, 6417-6423.   | 3.7  | 18        |
| 155 | Hard-template synthesis of micro-mesoporous organic frameworks with controlled hierarchicity. <i>Chemical Communications</i> , 2018, 54, 8335-8338.  | 2.2  | 15        |
| 156 | Beyond pristine metal-organic frameworks: Preparation and application of nanostructured, nanosized, and analogous MOFs. <i>Coordination Chemistry Reviews</i> , 2018, 376, 20-45.  | 9.5  | 121       |
| 157 | Spherical covalent organic frameworks as advanced adsorbents for preconcentration and separation of phenolic endocrine disruptors, followed by high performance liquid chromatography. <i>RSC Advances</i> , 2018, 8, 26880-26887. | 1.7  | 25        |
| 158 | Postsynthetic Covalent Modification in Covalent Organic Frameworks. <i>Israel Journal of Chemistry</i> , 2018, 58, 971-984.  | 1.0  | 55        |
| 159 | Two metal-organic frameworks based on pyridyl-tricarboxylate ligands as size-selective catalysts for solvent-free cyanosilylation reaction. <i>CrystEngComm</i> , 2018, 20, 6070-6076.   | 1.3  | 9         |
| 160 | Synthesis of novel 2D in-plane anisotropic covalent organic frameworks through a solvent modulated orthogonal strategy. <i>Polymer Chemistry</i> , 2018, 9, 4288-4293.   | 1.9  | 10        |
| 161 | Advanced Porous Materials in Mixed Matrix Membranes. <i>Advanced Materials</i> , 2018, 30, e1802401.   | 11.1 | 229       |
| 162 | Azine-based covalent organic frameworks as metal-free visible light photocatalysts for CO <sub>2</sub> reduction with H <sub>2</sub> O. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 46-51.                              | 10.8 | 203       |
| 163 | Covalent Organic Frameworks: From Materials Design to Biomedical Application. <i>Nanomaterials</i> , 2018, 8, 15.  | 1.9  | 134       |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 164 | Covalent Organic Frameworks Covalent Organic Framework Bilayer Membranes for Highly Selective Gas Separation. <i>Journal of the American Chemical Society</i> , 2018, 140, 10094-10098.  | 6.6  | 500       |
| 165 | Highly Conjugated Three-Dimensional Covalent Organic Frameworks Based on Spirobifluorene for Perovskite Solar Cell Enhancement. <i>Journal of the American Chemical Society</i> , 2018, 140, 10016-10024.                                  | 6.6  | 195       |
| 166 | A porphyrin covalent organic framework cathode for flexible Zn-air batteries. <i>Energy and Environmental Science</i> , 2018, 11, 1723-1729.   | 15.6 | 298       |
| 167 | Covalent organic frameworks: a platform for the experimental establishment of the influence of intermolecular distance on phosphorescence. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5369-5374.                                   | 2.7  | 43        |
| 168 | Supramolecular Reassembly of Self-Exfoliated Ionic Covalent Organic Nanosheets for Label-Free Detection of Double-Stranded DNA. <i>Angewandte Chemie</i> , 2018, 130, 8579-8583.   | 1.6  | 29        |
| 169 | Highly water-selective membranes based on hollow covalent organic frameworks with fast transport pathways. <i>Journal of Membrane Science</i> , 2018, 565, 331-341.  | 4.1  | 73        |
| 170 | Impregnation of sulfur into a 2D pyrene-based covalent organic framework for high-rate lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17186-17191.   | 5.2  | 122       |
| 171 | A covalent organic framework bearing thioether pendant arms for selective detection and recovery of Au from ultra-low concentration aqueous solution. <i>Chemical Communications</i> , 2018, 54, 9977-9980.                                | 2.2  | 114       |
| 172 | An azine-linked covalent organic framework ACOF-1 membrane for highly selective CO <sub>2</sub> /CH <sub>4</sub> separation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16849-16853.   | 5.2  | 107       |
| 173 | Ultra-high selectivity COF-based membranes for biobutanol production. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17602-17611.  | 5.2  | 56        |
| 174 | Acetylacetone Covalent Triazine Framework: An Efficient Carbon Capture and Storage Material and a Highly Stable Heterogeneous Catalyst. <i>Chemistry of Materials</i> , 2018, 30, 4102-4111.   | 3.2  | 78        |
| 175 | A conjugated microporous polymer based visual sensing platform for aminoglycoside antibiotics in water. <i>Chemical Communications</i> , 2018, 54, 7495-7498.  | 2.2  | 51        |
| 176 | Surface Pore Engineering of Covalent Organic Frameworks for Ammonia Capture through Synergistic Multivariate and Open Metal Site Approaches. <i>ACS Central Science</i> , 2018, 4, 748-754.  | 5.3  | 163       |
| 177 | Covalent organic frameworks as heterogeneous catalysts. <i>Chinese Journal of Catalysis</i> , 2018, 39, 1167-1179.   | 6.9  | 87        |
| 178 | Rational Design of Catalytic Centers in Crystalline Frameworks. <i>Advanced Materials</i> , 2018, 30, e1707582.  | 11.1 | 103       |
| 179 | Covalent Organic Frameworks Linked by Amine Bonding for Concerted Electrochemical Reduction of CO <sub>2</sub> . <i>CheM</i> , 2018, 4, 1696-1709.   | 5.8  | 306       |
| 180 | Interface-Assisted Synthesis of 2D Materials: Trend and Challenges. <i>Chemical Reviews</i> , 2018, 118, 6189-6235.  | 23.0 | 505       |
| 181 | <i>In situ</i> anchoring of metal nanoparticles in the N-doped carbon framework derived from conjugated microporous polymers towards an efficient oxygen reduction reaction. <i>Catalysis Science and Technology</i> , 2018, 8, 3572-3579. | 2.1  | 28        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 182 | Porous aromatic networks with amine linkers for adsorption of hydroxylated aromatic hydrocarbons. <i>Journal of Applied Polymer Science</i> , 2019, 136, 46919.  | 1.3  | 5         |
| 183 | Diving into the chiral pool: enantiopure microporous polysilsesquioxane spheres from both enantiomers with an oxazolidinone motif. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 89, 148-155. | 1.1  | 2         |
| 184 | Design and synthesis of covalent organic frameworks towards energy and environment fields. <i>Chemical Engineering Journal</i> , 2019, 355, 602-623.   | 6.6  | 197       |
| 185 | A Flexible Microporous Hydrogen-Bonded Organic Framework. <i>Crystal Growth and Design</i> , 2019, 19, 5184-5188.  | 1.4  | 43        |
| 186 | On-surface synthesis of one-type pore single-crystal porous covalent organic frameworks. <i>Chemical Communications</i> , 2019, 55, 10800-10803.   | 2.2  | 9         |
| 187 | Pathway Complexity in the Stacking of Imine-Linked Macrocycles Related to Two-Dimensional Covalent Organic Frameworks. <i>Chemistry of Materials</i> , 2019, 31, 7104-7111.                              | 3.2  | 22        |
| 188 | Three-Dimensional Tetrathiafulvalene-Based Covalent Organic Frameworks for Tunable Electrical Conductivity. <i>Journal of the American Chemical Society</i> , 2019, 141, 13324-13329.                    | 6.6  | 146       |
| 189 | Brønsted acid mediated covalent organic framework membranes for efficient molecular separation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20317-20324.  | 5.2  | 58        |
| 190 | Ultra-permeable polyamide membranes harvested by covalent organic framework nanofiber scaffolds: a two-in-one strategy. <i>Chemical Science</i> , 2019, 10, 9077-9083.                                   | 3.7  | 108       |
| 191 | De Novo Design and Facile Synthesis of 2D Covalent Organic Frameworks: A Two-in-One Strategy. <i>Journal of the American Chemical Society</i> , 2019, 141, 13822-13828.                                  | 6.6  | 167       |
| 192 | Stable Radical Cation-Containing Covalent Organic Frameworks Exhibiting Remarkable Structure-Enhanced Photothermal Conversion. <i>Journal of the American Chemical Society</i> , 2019, 141, 14433-14442. | 6.6  | 226       |
| 193 | High-Precision Size Recognition and Separation in Synthetic 1D Nanochannels. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15922-15927.   | 7.2  | 50        |
| 194 | High-Precision Size Recognition and Separation in Synthetic 1D Nanochannels. <i>Angewandte Chemie</i> , 2019, 131, 16069-16074.  | 1.6  | 13        |
| 195 | Stable 2D Heteroporous Covalent Organic Frameworks for Efficient Ionic Conduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15742-15746.   | 7.2  | 121       |
| 196 | Ultralow-Content Palladium Dispersed in Covalent Organic Framework for Highly Efficient and Selective Semihydrogenation of Alkynes. <i>Inorganic Chemistry</i> , 2019, 58, 10829-10836.                  | 1.9  | 28        |
| 197 | Recent Progress in Covalent Organic Frameworks as Solid-State Ion Conductors. , 2019, 1, 327-335.  |      | 68        |
| 198 | Coordination-Induced Interlinked Covalent and Metal-Organic Framework Hybrids for Enhanced Lithium Storage. <i>Advanced Materials</i> , 2019, 31, e1903176.  | 11.1 | 120       |
| 199 | A Perspective on Recent Advances in 2D Stanene Nanosheets. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900752.  | 1.9  | 54        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 200 | Stable 2D Heteroporous Covalent Organic Frameworks for Efficient Ionic Conduction. <i>Angewandte Chemie</i> , 2019, 131, 15889-15893.  | 1.6  | 22        |
| 201 | Trends in Solid Adsorbent Materials Development for CO <sub>2</sub> Capture. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 34533-34559.  | 4.0  | 215       |
| 202 | 2D molecular crystal lattices: advances in their synthesis, characterization, and application. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23537-23562.   | 5.2  | 33        |
| 203 | Converting Unstable Imine-Linked Network into Stable Aromatic Benzoxazole-Linked One via Post-oxidative Cyclization. <i>Journal of the American Chemical Society</i> , 2019, 141, 11786-11790.                                 | 6.6  | 100       |
| 204 | A $\pi$ -Conjugated, Covalent Phosphinine Framework. <i>Chemistry - A European Journal</i> , 2019, 25, 12342-12348.  | 1.7  | 24        |
| 205 | Real-time optical and electronic sensing with a $\beta$ -amino enone linked, triazine-containing 2D covalent organic framework. <i>Nature Communications</i> , 2019, 10, 3228.   | 5.8  | 117       |
| 206 | Biomimetic Nanocones that Enable High Ion Permselectivity. <i>Angewandte Chemie</i> , 2019, 131, 12776-12784.  | 1.6  | 20        |
| 207 | Biomimetic Nanocones that Enable High Ion Permselectivity. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12646-12654.   | 7.2  | 47        |
| 208 | Palladium clusters confined in triazinyl-functionalized COFs with enhanced catalytic activity. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117942.  | 10.8 | 76        |
| 209 | Strong fluorescence of a complex based on 2,2-dipyridyl derivative—An experimental and theoretical investigation. <i>Journal of Luminescence</i> , 2019, 215, 116611.  | 1.5  | 2         |
| 210 | Crystalline Anionic Germanate Covalent Organic Framework for High CO <sub>2</sub> Selectivity and Fast Li Ion Conduction. <i>Chemistry - A European Journal</i> , 2019, 25, 13479-13483.                                       | 1.7  | 29        |
| 211 | The effect of pore size and layer number of metal-porphyrin coordination nanosheets on sensing DNA. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10240-10246.  | 2.7  | 27        |
| 212 | Boosting Lithium-Sulfur Battery Performance by Integrating a Redox-Active Covalent Organic Framework in the Separator. <i>ACS Applied Energy Materials</i> , 2019, 2, 5793-5798.   | 2.5  | 57        |
| 213 | Switching on and off Interlayer Correlations and Porosity in 2D Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 12570-12581.   | 6.6  | 130       |
| 214 | Synergistic Effect of Covalent Bonding and Physical Encapsulation of Sulfur in the Pores of a Microporous COF to Improve Cycling Performance in Li-S Batteries. <i>Chemistry - A European Journal</i> , 2019, 25, 12394-12404. | 1.7  | 37        |
| 215 | Rational Design of Crystalline Covalent Organic Frameworks for Efficient CO <sub>2</sub> Photoreduction with H <sub>2</sub> O. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12392-12397.                       | 7.2  | 360       |
| 216 | Rational Design of Crystalline Covalent Organic Frameworks for Efficient CO <sub>2</sub> Photoreduction with H <sub>2</sub> O. <i>Angewandte Chemie</i> , 2019, 131, 12522-12527.  | 1.6  | 88        |
| 217 | The Imine-Based COF <b>1</b> as an Efficient Cooling Adsorbent That Can Be Regenerated by Heat or Light. <i>Advanced Energy Materials</i> , 2019, 9, 1901535.  | 10.2 | 36        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 218 | Ultrastable Covalent Organic Frameworks via Self-Polycondensation of an A <sub>2</sub> B <sub>2</sub> Monomer for Heterogeneous Photocatalysis. <i>Macromolecules</i> , 2019, 52, 7977-7983.                            | 2.2 | 84        |
| 219 | Iridium complex immobilization on covalent organic framework for effective C-H borylation. <i>APL Materials</i> , 2019, 7, .  | 2.2 | 24        |
| 220 | Ag Nanoparticles Supported on a Resorcinol-Phenylenediamine-Based Covalent Organic Framework for Chemical Fixation of CO <sub>2</sub> . <i>Chemistry - an Asian Journal</i> , 2019, 14, 4767-4773.                      | 1.7 | 43        |
| 221 | Reversible intercalation and exfoliation of layered covalent triazine frameworks for enhanced lithium ion storage. <i>Chemical Communications</i> , 2019, 55, 1434-1437.  | 2.2 | 70        |
| 222 | Carboxyl-Functionalized Covalent Organic Frameworks for the Adsorption and Removal of Triphenylmethane Dyes. <i>ACS Applied Nano Materials</i> , 2019, 2, 7290-7298.  | 2.4 | 97        |
| 223 | Chemical Control over Nucleation and Anisotropic Growth of Two-Dimensional Covalent Organic Frameworks. <i>ACS Central Science</i> , 2019, 5, 1892-1899.  | 5.3 | 44        |
| 224 | Functionalized Truxene Scaffold: A Promising Advanced Organic Material for Digital Era. <i>ChemistrySelect</i> , 2019, 4, 12272-12288.  | 0.7 | 23        |
| 225 | Standing Carbon-Supported Trace Levels of Metal Derived from Covalent Organic Framework for Electrocatalysis. <i>Small</i> , 2019, 15, e1905363.  | 5.2 | 32        |
| 226 | Thioether-Functionalized 2D Covalent Organic Framework Featuring Specific Affinity to Au for Photocatalytic Hydrogen Production from Seawater. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18574-18581. | 3.2 | 91        |
| 227 | 2020 Roadmap on two-dimensional nanomaterials for environmental catalysis. <i>Chinese Chemical Letters</i> , 2019, 30, 2065-2088.   | 4.8 | 90        |
| 228 | Photostimulus-Responsive Large-Area Two-Dimensional Covalent Organic Framework Films. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16101-16104.   | 7.2 | 141       |
| 229 | Pore surface engineering of covalent organic frameworks: structural diversity and applications. <i>Nanoscale</i> , 2019, 11, 21679-21708.   | 2.8 | 82        |
| 230 | Covalent-Organic-Framework-Based Li- <sup>+</sup> CO <sub>2</sub> Batteries. <i>Advanced Materials</i> , 2019, 31, e1905879.  | 7.1 | 129       |
| 231 | Photostimulus-Responsive Large-Area Two-Dimensional Covalent Organic Framework Films. <i>Angewandte Chemie</i> , 2019, 131, 16247-16250.  | 1.6 | 18        |
| 232 | Enzyme-Decorated Covalent Organic Frameworks as Nanoporous Platforms for Heterogeneous Biocatalysis. <i>Chemistry - A European Journal</i> , 2019, 25, 15863-15870.   | 1.7 | 37        |
| 233 | Semiconducting 2D Covalent Organic Frameworks: A New Opportunity for Efficient Solar Fuel Production. <i>Chinese Journal of Chemistry</i> , 2019, 37, 1291-1292.  | 2.6 | 11        |
| 234 | Azobenzene-Equipped Covalent Organic Framework: Light-Operated Reservoir. <i>Journal of the American Chemical Society</i> , 2019, 141, 19078-19087.   | 6.6 | 86        |
| 235 | The synthetic strategies of metal-organic framework membranes, films and 2D MOFs and their applications in devices. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21004-21035.                                     | 5.2 | 94        |



| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 236 | Facilitating nitrogen accessibility to boron-rich covalent organic frameworks via electrochemical excitation for efficient nitrogen fixation. <i>Nature Communications</i> , 2019, 10, 3898.                      | 5.8  | 191       |
| 237 | Recent advances in covalent organic frameworks (COFs) as a smart sensing material. <i>Chemical Society Reviews</i> , 2019, 48, 5266-5302.   | 18.7 | 630       |
| 238 | Porous Cationic Covalent Triazine-Based Frameworks as Platforms for Efficient CO <sub>2</sub> and Iodine Capture. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3259-3263.                                      | 1.7  | 35        |
| 239 | Aminal-Linked Covalent Organic Frameworks through Condensation of Secondary Amine with Aldehyde. <i>Journal of the American Chemical Society</i> , 2019, 141, 14981-14986.  | 6.6  | 114       |
| 240 | Renal-clearable ultrasmall covalent organic framework nanodots as photodynamic agents for effective cancer therapy. <i>Biomaterials</i> , 2019, 223, 119462.  | 5.7  | 101       |
| 241 | Facile Synthesis of Porphyrin Based Covalent Organic Frameworks via an A <sub>2</sub> B <sub>2</sub> Monomer for Highly Efficient Heterogeneous Catalysis. <i>Chemistry of Materials</i> , 2019, 31, 8100-8105.   | 3.2  | 111       |
| 242 | Two-Dimensional COF with Rather Low Exciton Binding Energies Comparable to 3D Inorganic Semiconductors in the Visible Range for Water Splitting. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24626-24633. | 1.5  | 11        |
| 243 | Covalent organic frameworks (COFs) for environmental applications. <i>Coordination Chemistry Reviews</i> , 2019, 400, 213046.   | 9.5  | 387       |
| 244 | Microporous Cyclen-Based Octacarboxylate Hydrogen-Bonded Organic Framework Exhibiting Selective Gas Adsorption. <i>Crystal Growth and Design</i> , 2019, 19, 6377-6380.   | 1.4  | 18        |
| 245 | A Novel One-Dimensional Porphyrin-Based Covalent Organic Framework. <i>Molecules</i> , 2019, 24, 3361.  | 1.7  | 6         |
| 246 | Organically interconnected graphene flakes: A flexible 3-D material with tunable electronic bandgap. <i>Scientific Reports</i> , 2019, 9, 13676.  | 1.6  | 5         |
| 247 | Salt-assisted pyrolysis of covalent organic frameworks to porous heteroatom-doped carbons for supercapacitive energy storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26829-26837.                     | 5.2  | 33        |
| 248 | Reversible Polycondensation-Termination Growth of Covalent-Organic-Framework Spheres, Fibers, and Films. <i>Matter</i> , 2019, 1, 1592-1605.  | 5.0  | 84        |
| 249 | Recent advances in the construction of functionalized covalent organic frameworks and their applications to sensing. <i>Biosensors and Bioelectronics</i> , 2019, 145, 111699.                                    | 5.3  | 124       |
| 250 | Covalent Organic Frameworks for the Capture, Fixation, or Reduction of CO <sub>2</sub> . <i>Frontiers in Energy Research</i> , 2019, 7, .   | 1.2  | 91        |
| 251 | A highly soluble, crystalline covalent organic framework compatible with device implementation. <i>Chemical Science</i> , 2019, 10, 1023-1028.  | 3.7  | 173       |
| 252 | Enhanced optomechanical properties of mechanochemiluminescent poly(methyl acrylate) composites with granulated fluorescent conjugated microporous polymer fillers. <i>Chemical Science</i> , 2019, 10, 2206-2211. | 3.7  | 32        |
| 253 | Ionic liquid as a green solvent for ionothermal synthesis of 2D keto-enamine-linked covalent organic frameworks. <i>Materials Chemistry and Physics</i> , 2019, 226, 244-249.                                     | 2.0  | 44        |



| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 254 | A hollow microshuttle-shaped capsule covalent organic framework for protein adsorption. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1469-1474.   | 2.9  | 38        |
| 255 | Three dimensional nanoscale analysis reveals aperiodic mesopores in a covalent organic framework and conjugated microporous polymer. <i>Nanoscale</i> , 2019, 11, 2848-2854.                                      | 2.8  | 17        |
| 256 | Ferrocene-Linkage-Facilitated Charge Separation in Conjugated Microporous Polymers. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4221-4226.   | 7.2  | 109       |
| 257 | Electron Highways into Nanochannels of Covalent Organic Frameworks for High Electrical Conductivity and Energy Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 7661-7665.                      | 4.0  | 113       |
| 258 | Ferrocene-Linkage-Facilitated Charge Separation in Conjugated Microporous Polymers. <i>Angewandte Chemie</i> , 2019, 131, 4265-4270.  | 1.6  | 11        |
| 259 | Three-dimensional Salphen-based Covalent Organic Frameworks as Catalytic Antioxidants. <i>Journal of the American Chemical Society</i> , 2019, 141, 2920-2924.  | 6.6  | 193       |
| 260 | Two-dimensional extended $\pi$ -conjugated triphenylene-core covalent organic polymer. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3066-3071.  | 5.2  | 17        |
| 261 | Rapid Polymerization of Aromatic Vinyl Monomers to Porous Organic Polymers via Acid Catalysis at Mild Condition. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900168.                                 | 2.0  | 4         |
| 262 | Introduction to Covalent Organic Frameworks: An Advanced Organic Chemistry Experiment. <i>Journal of Chemical Education</i> , 2019, 96, 1745-1751.  | 1.1  | 13        |
| 263 | Sub-stoichiometric 2D covalent organic frameworks from tri- and tetratopic linkers. <i>Nature Communications</i> , 2019, 10, 2689.  | 5.8  | 83        |
| 264 | Metal and Covalent Organic Frameworks Threaded with Chiral Polymers for Heterogeneous Asymmetric Catalysis. <i>Organometallics</i> , 2019, 38, 3474-3479.   | 1.1  | 24        |
| 265 | High Glass-Transition Temperature Polymer Networks Harnessing the Dynamic Ring Opening of Pinacol Boronates. <i>Angewandte Chemie</i> , 2019, 131, 12344-12350.   | 1.6  | 1         |
| 266 | A Pd(II)-Functionalized Covalent Organic Framework for Catalytic Conjugate Additions of Arylboronic Acids to $\beta,\beta$ -Disubstituted Enones. <i>ChemCatChem</i> , 2019, 11, 4286-4290.                       | 1.8  | 13        |
| 267 | High Glass-Transition Temperature Polymer Networks Harnessing the Dynamic Ring Opening of Pinacol Boronates. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12216-12222.                            | 7.2  | 24        |
| 268 | Topochemical Synthesis of Single-Crystalline Hydrogen-Bonded Cross-Linked Organic Frameworks and Their Guest-Induced Elastic Expansion. <i>Journal of the American Chemical Society</i> , 2019, 141, 10915-10923. | 6.6  | 92        |
| 269 | Ultrathin metal/covalent organic framework membranes towards ultimate separation. <i>Chemical Society Reviews</i> , 2019, 48, 3811-3841.  | 18.7 | 334       |
| 271 | Porosity Modulation in Two-Dimensional Covalent Organic Frameworks Leads to Enhanced Iodine Adsorption Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 10495-10502.               | 1.8  | 66        |
| 272 | High-Lithium Affinity Chemically Exfoliated 2D Covalent Organic Frameworks. <i>Advanced Materials</i> , 2019, 31, e1901640.   | 11.1 | 217       |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 273 | Unidirectional diffusion synthesis of covalent organic frameworks (COFs) on polymeric substrates for dye separation. <i>Journal of Membrane Science</i> , 2019, 586, 274-280.  | 4.1  | 120       |
| 274 | Post-synthetic modification of covalent organic frameworks. <i>Chemical Society Reviews</i> , 2019, 48, 3903-3945.   | 18.7 | 444       |
| 275 | Engineering Covalent Organic Frameworks for Light-Driven Hydrogen Production from Water. , 2019, 1, 203-208.   |      | 69        |
| 276 | Lithium bis(trifluoromethanesulfonyl)imide assisted dual-functional separator coating materials based on covalent organic frameworks for high-performance lithium-selenium sulfide batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16323-16329.      | 5.2  | 48        |
| 277 | Isostructural Three-Dimensional Covalent Organic Frameworks. <i>Angewandte Chemie</i> , 2019, 131, 9872-9877.  | 1.6  | 31        |
| 278 | Buckling of Two-Dimensional Covalent Organic Frameworks under Thermal Stress. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 9883-9887.  | 1.8  | 30        |
| 279 | Metallopolymerization as a Strategy to Translate Ligand-Modulated Chemoselectivity to Porous Catalysts. <i>Organometallics</i> , 2019, 38, 3436-3443.  | 1.1  | 9         |
| 280 | Covalent organic framework membranes through a mixed-dimensional assembly for molecular separations. <i>Nature Communications</i> , 2019, 10, 2101.  | 5.8  | 271       |
| 281 | Facile construction of magnetic core-shell covalent organic frameworks as efficient solid-phase extraction adsorbents for highly sensitive determination of sulfonamide residues against complex food sample matrices. <i>RSC Advances</i> , 2019, 9, 14247-14253. | 1.7  | 42        |
| 282 | Installing earth-abundant metal active centers to covalent organic frameworks for efficient heterogeneous photocatalytic CO <sub>2</sub> reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 624-633.  | 10.8 | 212       |
| 283 | Isostructural Three-Dimensional Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9770-9775.   | 7.2  | 126       |
| 284 | Energy-storage covalent organic frameworks: improving performance <i>via</i> engineering polysulfide chains on walls. <i>Chemical Science</i> , 2019, 10, 6001-6006.   | 3.7  | 121       |
| 285 | An exceptionally stable core-shell MOF/COF bifunctional catalyst for a highly efficient cascade deacetalization-Knoevenagel condensation reaction. <i>Chemical Communications</i> , 2019, 55, 6377-6380.   | 2.2  | 107       |
| 286 | Rhenium-functionalized covalent organic framework photocatalyst for efficient CO <sub>2</sub> reduction under visible light. <i>Microporous and Mesoporous Materials</i> , 2019, 285, 195-201.   | 2.2  | 76        |
| 287 | A Lieb-like lattice in a covalent-organic framework and its Stoner ferromagnetism. <i>Nature Communications</i> , 2019, 10, 2207.  | 5.8  | 67        |
| 288 | Highly Cation Permselective Metal-Organic Framework Membranes with Leaf-Like Morphology. <i>ChemSusChem</i> , 2019, 12, 2593-2597.   | 3.6  | 61        |
| 289 | Mesoporous Composite Nanomaterials for Dye Removal and Other Applications. , 2019, , 265-293.  |      | 17        |
| 290 | 2D sp <sup>2</sup> Carbon-Conjugated Covalent Organic Frameworks for Photocatalytic Hydrogen Production from Water. <i>Chem</i> , 2019, 5, 1632-1647.  | 5.8  | 408       |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 291 | Heterogeneous molecular catalysts for electrocatalytic CO <sub>2</sub> reduction. <i>Nano Research</i> , 2019, 12, 2093-2125.  | 5.8  | 172       |
| 292 | Alternatives to Cryogenic Distillation: Advanced Porous Materials in Adsorptive Light Olefin/Paraffin Separations. <i>Small</i> , 2019, 15, e1900058.  | 5.2  | 187       |
| 293 | A Covalent Organic Framework Bearing Single Ni Sites as a Synergistic Photocatalyst for Selective Photoreduction of CO <sub>2</sub> to CO. <i>Journal of the American Chemical Society</i> , 2019, 141, 7615-7621.                           | 6.6  | 525       |
| 294 | Constructing channel-mediated facilitated transport membranes by incorporating covalent organic framework nanosheets with tunable microenvironments. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9912-9923.                           | 5.2  | 25        |
| 295 | Fully sp <sup>2</sup> -Carbon-Linked Crystalline Two-Dimensional Conjugated Polymers: Insight into 2D Poly(phenylenecyanovinylene) Formation and its Optoelectronic Properties. <i>Chemistry - A European Journal</i> , 2019, 25, 6562-6568. | 1.7  | 40        |
| 296 | Framework-Porphyrin-Derived Single-Atom Bifunctional Oxygen Electrocatalysts and their Applications in Zn-Air Batteries. <i>Advanced Materials</i> , 2019, 31, e1900592.   | 11.1 | 256       |
| 297 | Designed Synthesis of a 2D Porphyrin-Based sp <sup>2</sup> -Carbon-Conjugated Covalent Organic Framework for Heterogeneous Photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6430-6434.                           | 7.2  | 470       |
| 298 | Large-scale synthesis of azine-linked covalent organic frameworks in water and promoted by water. <i>New Journal of Chemistry</i> , 2019, 43, 6116-6120.   | 1.4  | 40        |
| 299 | A high-sensitivity thermal analysis immunochromatographic sensor based on an nanoparticle-enhanced two-dimensional black phosphorus photothermal-sensing materials. <i>Biosensors and Bioelectronics</i> , 2019, 133, 223-229.               | 5.3  | 66        |
| 300 | Bio-related applications of porous organic frameworks (POFs). <i>Journal of Materials Chemistry B</i> , 2019, 7, 2398-2420.  | 2.9  | 34        |
| 301 | Porous Aromatic Frameworks as a Platform for Multifunctional Applications. <i>ACS Central Science</i> , 2019, 5, 409-418.  | 5.3  | 175       |
| 302 | Recyclable magnetic covalent organic framework for the extraction of marine biotoxins. <i>Nanoscale</i> , 2019, 11, 6072-6079.   | 2.8  | 57        |
| 303 | Hierarchical-Coassembly-Enabled 3D-Printing of Homogeneous and Heterogeneous Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 5154-5158.  | 6.6  | 110       |
| 304 | Bayesian inference of atomistic structure in functional materials. <i>Npj Computational Materials</i> , 2019, 5, .   | 3.5  | 81        |
| 305 | Amide-based covalent organic frameworks materials for efficient and recyclable removal of heavy metal lead (II). <i>Chemical Engineering Journal</i> , 2019, 370, 822-830.   | 6.6  | 152       |
| 306 | Metal-organic frameworks with multicomponents in order. <i>Coordination Chemistry Reviews</i> , 2019, 388, 107-125.  | 9.5  | 82        |
| 307 | Tuning Pore Heterogeneity in Covalent Organic Frameworks for Enhanced Enzyme Accessibility and Resistance against Denaturants. <i>Advanced Materials</i> , 2019, 31, e1900008.   | 11.1 | 114       |
| 308 | Well-Defined Materials for High-Performance Chromatographic Separation. <i>Annual Review of Analytical Chemistry</i> , 2019, 12, 451-473.  | 2.8  | 14        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 309 | Chemically stable polyarylether-based covalent organic frameworks. <i>Nature Chemistry</i> , 2019, 11, 587-594.   | 6.6 | 509       |
| 310 | Synthesis of triptycene-derived covalent organic polymer networks and their subsequent in-situ functionalization with 1,2-dicarbonyl substituents. <i>Reactive and Functional Polymers</i> , 2019, 139, 153-161.  | 2.0 | 14        |
| 311 | Porous covalent triazine-terphenyl polymer as hydrophilic-lipophilic balanced sorbent for solid phase extraction of tetracyclines in animal derived foods. <i>Talanta</i> , 2019, 201, 426-432.   | 2.9 | 39        |
| 312 | One-Pot Synthesis of Framework Porphyrin Materials and Their Applications in Bifunctional Oxygen Electrocatalysis. <i>Advanced Functional Materials</i> , 2019, 29, 1901301.  | 7.8 | 63        |
| 313 | Fast Desalination by Multilayered Covalent Organic Framework (COF) Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 16847-16854.   | 4.0 | 135       |
| 314 | Cu/Cu <sub>2</sub> O Nanoparticles Supported on a Phenol-Pyridyl COF as a Heterogeneous Catalyst for the Synthesis of Unsymmetrical Diynes via Glaser-Hay Coupling. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15670-15679.  | 4.0 | 77        |
| 315 | N-rich covalent organic frameworks with different pore size for high-pressure CO <sub>2</sub> adsorption. <i>Microporous and Mesoporous Materials</i> , 2019, 285, 70-79.   | 2.2 | 41        |
| 316 | Cationic Covalent Organic Nanosheets for Rapid and Selective Capture of Perrhenate: An Analogue of Radioactive Perchnetate from Aqueous Solution. <i>Environmental Science &amp; Technology</i> , 2019, 53, 5212-5220.  | 4.6 | 160       |
| 317 | Squaramide-decorated covalent organic framework as a new platform for biomimetic hydrogen-bonding organocatalysis. <i>Chemical Communications</i> , 2019, 55, 5423-5426.  | 2.2 | 33        |
| 318 | Nanoscrolls Formed from Two-Dimensional Covalent Organic Frameworks. <i>Chemistry of Materials</i> , 2019, 31, 3265-3273.   | 3.2 | 12        |
| 319 | Designed Synthesis of a 2D Porphyrin-Based sp <sup>2</sup> Carbon-Conjugated Covalent Organic Framework for Heterogeneous Photocatalysis. <i>Angewandte Chemie</i> , 2019, 131, 6496-6500.  | 1.6 | 67        |
| 320 | One-Pot Synthesis of DOX@Covalent Organic Framework with Enhanced Chemotherapeutic Efficacy. <i>Chemistry - A European Journal</i> , 2019, 25, 4315-4319.   | 1.7 | 109       |
| 321 | Vanadium Docked Covalent-Organic Frameworks: An Effective Heterogeneous Catalyst for Modified Mannich-Type Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4878-4888.   | 3.2 | 46        |
| 322 | A general strategy <i>via</i> chemically covalent combination for constructing heterostructured catalysts with enhanced photocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2019, 55, 4150-4153.  | 2.2 | 45        |
| 323 | Functional $\pi$ -Conjugated Two-Dimensional Covalent Organic Frameworks. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 11029-11060.  | 4.0 | 119       |
| 324 | Controlling the crystalline structure of imine-linked 3D covalent organic frameworks. <i>Chemical Communications</i> , 2019, 55, 3594-3597.   | 2.2 | 40        |
| 325 | Cage Based Crystalline Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 3843-3848.   | 6.6 | 84        |
| 326 | Mechanism unravelling for ultrafast and selective <sup>99</sup> TcO <sub>4</sub> <sup>-</sup> uptake by a radiation-resistant cationic covalent organic framework: a combined radiological experiment and molecular dynamics simulation study. <i>Chemical Science</i> , 2019, 10, 4293-4305. | 3.7 | 181       |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 327 | Triphenylene: A versatile molecular receptor. <i>Tetrahedron Letters</i> , 2019, 60, 872-884.  | 0.7  | 16        |
| 328 | Controlled growth of imine-linked two-dimensional covalent organic framework nanoparticles. <i>Chemical Science</i> , 2019, 10, 3796-3801.   | 3.7  | 118       |
| 329 | Reactive Metal-Organic Biopolymer Interactions for Semihydrogenation of Acetylene. <i>ACS Catalysis</i> , 2019, 9, 11146-11152.  | 5.5  | 22        |
| 330 | General Way To Construct Micro- and Mesoporous Metal-Organic Framework-Based Porous Liquids. <i>Journal of the American Chemical Society</i> , 2019, 141, 19708-19714.   | 6.6  | 111       |
| 331 | Novel hybrid capacitive deionization constructed by a redox-active covalent organic framework and its derived porous carbon for highly efficient desalination. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25305-25313.                   | 5.2  | 40        |
| 332 | Graphene oxide membranes with an ultra-large interlayer distance through vertically grown covalent organic framework nanosheets. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25458-25466.   | 5.2  | 28        |
| 333 | An unprecedented 2D covalent organic framework with an htb net topology. <i>Chemical Communications</i> , 2019, 55, 13454-13457.   | 2.2  | 26        |
| 334 | Three-dimensional porphyrin-based covalent organic frameworks with tetrahedral building blocks for single-site catalysis. <i>New Journal of Chemistry</i> , 2019, 43, 16907-16914.   | 1.4  | 28        |
| 335 | Sensitive and selective fluorometric determination of DNA by using layered hexagonal nanosheets of a covalent organic framework prepared from p-phenylenediamine and benzene-1,3,5-tricarboxaldehyde. <i>Mikrochimica Acta</i> , 2019, 186, 833. | 2.5  | 21        |
| 336 | Ambient aqueous-phase synthesis of covalent organic frameworks for degradation of organic pollutants. <i>Chemical Science</i> , 2019, 10, 10815-10820.   | 3.7  | 65        |
| 337 | Dual luminescent covalent organic frameworks for nitro-explosive detection. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27148-27155.  | 5.2  | 108       |
| 338 | Diffusion-induced <i>in situ</i> growth of covalent organic frameworks for composite membranes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25802-25807.  | 5.2  | 19        |
| 339 | Advances in polyarylethers: opening new opportunities. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14767-14770.   | 2.7  | 4         |
| 340 | Recent progress in covalent organic framework thin films: fabrications, applications and perspectives. <i>Chemical Society Reviews</i> , 2019, 48, 488-516.  | 18.7 | 564       |
| 341 | Covalent Organic Framework Decorated with Vanadium as a New Platform for Prins Reaction and Sulfide Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 3070-3079.  | 4.0  | 66        |
| 342 | Proton Conduction in 2D Aza-Fused Covalent Organic Frameworks. <i>Chemistry of Materials</i> , 2019, 31, 819-825.  | 3.2  | 181       |
| 343 | Electrically-Transduced Chemical Sensors Based on Two-Dimensional Nanomaterials. <i>Chemical Reviews</i> , 2019, 119, 478-598.   | 23.0 | 521       |
| 344 | Sp <sup>2</sup> -carbon dominant carbonaceous materials for energy conversion and storage. <i>Materials Science and Engineering Reports</i> , 2019, 137, 1-37.   | 14.8 | 25        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 345 | Opportunities of Covalent Organic Frameworks for Advanced Applications. <i>Advanced Science</i> , 2019, 6, 1801410.  | 5.6  | 368       |
| 346 | <i>In Situ</i> Charge Exfoliated Soluble Covalent Organic Framework Directly Used for Zn <sup>2+</sup> Air Flow Battery. <i>ACS Nano</i> , 2019, 13, 878-884.  | 7.3  | 182       |
| 347 | Tailoring Covalent Organic Frameworks To Capture Water Contaminants. <i>Chemistry - A European Journal</i> , 2019, 25, 6461-6473.  | 1.7  | 62        |
| 348 | Ordered Porous Poly(ionic liquid) Crystallines: Spacing Confined Ionic Surface Enhancing Selective CO <sub>2</sub> Capture and Fixation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 6031-6041.      | 4.0  | 76        |
| 349 | Fast Ion Transport Pathway Provided by Polyethylene Glycol Confined in Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 1923-1927.  | 6.6  | 217       |
| 350 | Designed synthesis of Co salen-based metalated crystalline polymers. <i>Journal of Polymer Science Part A</i> , 2019, 57, 641-647.   | 2.5  | 5         |
| 351 | Porous Polymers as Multifunctional Material Platforms toward Task-Specific Applications. <i>Advanced Materials</i> , 2019, 31, e1802922.   | 11.1 | 315       |
| 352 | Guanidinium-Based Ionic Covalent Organic Framework for Rapid and Selective Removal of Toxic Cr(VI) Oxoanions from Water. <i>Environmental Science &amp; Technology</i> , 2019, 53, 878-883.                        | 4.6  | 101       |
| 353 | Interpenetration Isomerism in Triptycene-Based Hydrogen-Bonded Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1664-1669.   | 7.2  | 93        |
| 354 | Bimetallic Covalent Organic Frameworks for Constructing Multifunctional Electrocatalyst. <i>Chemistry - A European Journal</i> , 2019, 25, 3105-3111.  | 1.7  | 69        |
| 355 | Fused Aromatic Network Structures as a Platform for Efficient Electrocatalysis. <i>Advanced Materials</i> , 2019, 31, e1805062.  | 11.1 | 31        |
| 356 | Interpenetration Isomerism in Triptycene-Based Hydrogen-Bonded Organic Frameworks. <i>Angewandte Chemie</i> , 2019, 131, 1678-1683.  | 1.6  | 29        |
| 357 | Exfoliated Triazine-Based Covalent Organic Nanosheets with Multielectron Redox for High-Performance Lithium Organic Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1801010.                                | 10.2 | 174       |
| 358 | Two-Dimensional Kagome Lattices Made of Hetero Triangulenes Are Dirac Semimetals or Single-Band Semiconductors. <i>Journal of the American Chemical Society</i> , 2019, 141, 743-747.                              | 6.6  | 88        |
| 359 | Tetrapyrrole macrocycle based conjugated two-dimensional mesoporous polymers and covalent organic frameworks: From synthesis to material applications. <i>Coordination Chemistry Reviews</i> , 2019, 378, 188-206. | 9.5  | 106       |
| 360 | Metallosalen-based crystalline porous materials: Synthesis and property. <i>Coordination Chemistry Reviews</i> , 2019, 378, 483-499.   | 9.5  | 82        |
| 361 | A heteropore covalent organic framework for adsorptive removal of Cd(II) from aqueous solutions with high efficiency. <i>Chinese Chemical Letters</i> , 2020, 31, 386-390.   | 4.8  | 53        |
| 362 | Covalent Organic Frameworks: Chemical Approaches to Designer Structures and Built-in Functions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5050-5091.  | 7.2  | 394       |



| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 363 | Kovalente organische Gerüstverbindungen: chemische Ansätze für Designerstrukturen und integrierte Funktionen. <i>Angewandte Chemie</i> , 2020, 132, 5086-5129.  | 1.6  | 54        |
| 364 | Water-selective hybrid membranes with improved interfacial compatibility from mussel-inspired dopamine-modified alginate and covalent organic frameworks. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 90-97. | 1.7  | 10        |
| 365 | Recent development of covalent organic frameworks (COFs): synthesis and catalytic (organic-electro-photo) applications. <i>Materials Horizons</i> , 2020, 7, 411-454.   | 6.4  | 291       |
| 366 | Covalent Organic Framework (COF) under High Pressure. <i>Angewandte Chemie</i> , 2020, 132, 1103-1108.  | 1.6  | 3         |
| 367 | A redox-active covalent organic framework for the efficient detection and removal of hydrazine. <i>Journal of Hazardous Materials</i> , 2020, 381, 120983.  | 6.5  | 50        |
| 368 | Polymernetzwerke: Von Kunststoffen und Gelen zu porösen Gerüsten. <i>Angewandte Chemie</i> , 2020, 132, 5054-5085.  | 1.6  | 16        |
| 369 | Polymer Networks: From Plastics and Gels to Porous Frameworks. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5022-5049.  | 7.2  | 194       |
| 370 | Two-dimensional conjugated polymers synthesized via on-surface chemistry. <i>Science China Materials</i> , 2020, 63, 172-176.   | 3.5  | 9         |
| 371 | Supramolecular Surface Charge Regulation in Ionic Covalent Organic Nanosheets: Reversible Exfoliation and Controlled Bacterial Growth. <i>Angewandte Chemie</i> , 2020, 132, 8791-8797.                                     | 1.6  | 40        |
| 372 | Supramolecular Surface Charge Regulation in Ionic Covalent Organic Nanosheets: Reversible Exfoliation and Controlled Bacterial Growth. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8713-8719.              | 7.2  | 59        |
| 373 | Highly efficient charge transfer in CdS-covalent organic framework nanocomposites for stable photocatalytic hydrogen evolution under visible light. <i>Science Bulletin</i> , 2020, 65, 113-122.                            | 4.3  | 115       |
| 374 | Covalent organic framework-inspired chromogenic system for visual colorimetric detection of carcinogenic 3, 3'-diaminobenzidine. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127372.                              | 4.0  | 36        |
| 375 | Covalent Organic Framework for Improving Near-Infrared Light Induced Fluorescence Imaging through Two-Photon Induction. <i>Angewandte Chemie</i> , 2020, 132, 10173-10180.  | 1.6  | 16        |
| 376 | Covalent Organic Framework for Improving Near-Infrared Light Induced Fluorescence Imaging through Two-Photon Induction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10087-10094.                           | 7.2  | 84        |
| 377 | New Anthraquinone-Based Conjugated Microporous Polymer Cathode with Ultrahigh Specific Surface Area for High-Performance Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1908074.                   | 7.8  | 91        |
| 378 | Supramolecular-Macrocyclic-Based Crystalline Organic Materials. <i>Advanced Materials</i> , 2020, 32, e1904824.   | 11.1 | 110       |
| 379 | Covalent Organic Framework (COF) under High Pressure. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1087-1092.   | 7.2  | 34        |
| 380 | Covalent Organic Frameworks: A Sustainable Photocatalyst toward Visible-Light-Accelerated C <sub>3</sub> Arylation and Alkylation of Quinoxaline(1,2,3-c)ones. <i>Chemistry - A European Journal</i> , 2020, 26, 369-373.   | 1.7  | 82        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 381 | A Corrole-Based Covalent Organic Framework Featuring Desymmetrized Topology. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4354-4359.  | 7.2 | 84        |
| 382 | Assembly of Molecular Building Blocks into Integrated Complex Functional Molecular Systems: Structuring Matter Made to Order. <i>Advanced Functional Materials</i> , 2020, 30, 1907625.                                 | 7.8 | 34        |
| 383 | Nitrogen-rich covalent organic frameworks with multiple carbonyls for high-performance sodium batteries. <i>Nature Communications</i> , 2020, 11, 178.  | 5.8 | 279       |
| 384 | Designing Covalent Organic Frameworks with a Tailored Ionic Interface for Ion Transport across One-Dimensional Channels. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4557-4563.                        | 7.2 | 83        |
| 385 | Construction of extensible and flexible supercapacitors from covalent organic framework composite membrane electrode. <i>Chemical Engineering Journal</i> , 2020, 387, 124071.  | 6.6 | 42        |
| 386 | Humidity Sensing through Reversible Isomerization of a Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 783-791.  | 6.6 | 190       |
| 387 | Aqueous stable Pd nanoparticles/covalent organic framework nanocomposite: an efficient nanoenzyme for colorimetric detection and multicolor imaging of cancer cells. <i>Nanoscale</i> , 2020, 12, 825-831.              | 2.8 | 37        |
| 388 | A self-assembled liquid crystal honeycomb of highly stretched (3-1-1)-hexagons. <i>Chemical Communications</i> , 2020, 56, 62-65.   | 2.2 | 7         |
| 389 | <i>In vivo</i> therapeutic response monitoring by a self-reporting upconverting covalent organic framework nanoplatfrom. <i>Chemical Science</i> , 2020, 11, 1299-1306.   | 3.7 | 83        |
| 390 | Covalent organic framework-based ultrathin crystalline porous film: manipulating uniformity of fluoride distribution for stabilizing lithium metal anode. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3459-3467. | 5.2 | 75        |
| 391 | Facile preparation of COF composite membranes for nanofiltration by stoichiometric spraying layer-by-layer self-assembly. <i>Chemical Communications</i> , 2020, 56, 419-422.   | 2.2 | 47        |
| 392 | Band-gap engineering of layered covalent organic frameworks via controllable exfoliation for enhanced visible-light-driven hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 2689-2698.   | 3.8 | 32        |
| 393 | Nucleation-Elongation Dynamics of Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 1367-1374.  | 6.6 | 58        |
| 394 | Covalent Organic Frameworks (COFs) for Cancer Therapeutics. <i>Chemistry - A European Journal</i> , 2020, 26, 5583-5591.  | 1.7 | 137       |
| 395 | Covalent organic frameworks hybrid membrane with optimized mass transport nanochannel for aromatic/aliphatic mixture pervaporation. <i>Journal of Membrane Science</i> , 2020, 598, 117652.                             | 4.1 | 33        |
| 396 | Emerging Functional Porous Polymeric and Carbonaceous Materials for Environmental Treatment and Energy Storage. <i>Advanced Functional Materials</i> , 2020, 30, 1907006.   | 7.8 | 176       |
| 397 | Porous organic polymers: a promising platform for efficient photocatalysis. <i>Materials Chemistry Frontiers</i> , 2020, 4, 332-353.  | 3.2 | 256       |
| 398 | Electronic Spectroscopy of 2-Phenyl-1,3,2-benzodioxaborole and Its Derivatives: Important Building Blocks of Covalent Organic Frameworks. <i>Journal of Physical Chemistry A</i> , 2020, 124, 529-537.                  | 1.1 | 1         |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 399 | Cobalt-containing covalent organic frameworks for visible light-driven hydrogen evolution. <i>Science China Chemistry</i> , 2020, 63, 192-197.   | 4.2  | 45        |
| 400 | In Situ Imine-Based Linker Formation for the Synthesis of Zirconium MOFs: A Route to CO <sub>2</sub> Capture Materials and Ethylene Oligomerization Catalysts. <i>Inorganic Chemistry</i> , 2020, 59, 350-359.   | 1.9  | 18        |
| 401 | Phenazine-Based Covalent Organic Framework Cathode Materials with High Energy and Power Densities. <i>Journal of the American Chemical Society</i> , 2020, 142, 16-20.   | 6.6  | 256       |
| 402 | Fabricating Organic Nanotubes through Selective Disassembly of Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 70-74.                                  | 6.6  | 81        |
| 403 | Recent Advances in Covalent Organic Frameworks for Catalysis. <i>Chemistry - an Asian Journal</i> , 2020, 15, 338-351.   | 1.7  | 103       |
| 404 | A stable covalent organic framework for photocatalytic carbon dioxide reduction. <i>Chemical Science</i> , 2020, 11, 543-550.  | 3.7  | 265       |
| 405 | Hydrophilic microporous membranes for selective ion separation and flow-battery energy storage. <i>Nature Materials</i> , 2020, 19, 195-202.   | 13.3 | 237       |
| 406 | Rapid Synthesis of High Surface Area Imine-Linked 2D Covalent Organic Frameworks by Avoiding Pore Collapse During Isolation. <i>Advanced Materials</i> , 2020, 32, e1905776.                                     | 11.1 | 125       |
| 407 | 2D and 3D Porphyrinic Covalent Organic Frameworks: The Influence of Dimensionality on Functionality. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3624-3629.                                     | 7.2  | 227       |
| 408 | Band structure tunable synthesis of photocatalytic porous aromatic frameworks via Scholl reaction. <i>Materials and Design</i> , 2020, 186, 108371.  | 3.3  | 12        |
| 409 | 2D and 3D Porphyrinic Covalent Organic Frameworks: The Influence of Dimensionality on Functionality. <i>Angewandte Chemie</i> , 2020, 132, 3653-3658.  | 1.6  | 45        |
| 410 | One-Pot Fabrication of Pd Nanoparticles@Covalent Organic Framework-Derived Hollow Polyamine Spheres as a Synergistic Catalyst for Tandem Catalysis. <i>Chemistry - A European Journal</i> , 2020, 26, 1864-1870. | 1.7  | 18        |
| 411 | Nanoporous materials for chiral resolution. <i>Coordination Chemistry Reviews</i> , 2020, 425, 213481.   | 9.5  | 38        |
| 412 | Self-standing and flexible covalent organic framework (COF) membranes for molecular separation. <i>Science Advances</i> , 2020, 6, .   | 4.7  | 168       |
| 413 | In-situ layer-by-layer synthesized TpPa-1 COF solid-phase microextraction fiber for detecting sex hormones in serum. <i>Analytica Chimica Acta</i> , 2020, 1137, 28-36.  | 2.6  | 31        |
| 414 | Recent Advancements and Future Prospects in Ultrathin 2D Semiconductor-Based Photocatalysts for Water Splitting. <i>Catalysts</i> , 2020, 10, 1111.  | 1.6  | 35        |
| 415 | Covalent Organic Frameworks: An Amazing Chemistry Platform for Designing Polymers. <i>CheM</i> , 2020, 6, 2461-2483.   | 5.8  | 98        |
| 416 | The opportunity of metal organic frameworks and covalent organic frameworks in lithium (ion) batteries and fuel cells. <i>Energy Storage Materials</i> , 2020, 33, 360-381.                                      | 9.5  | 47        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 417 | A chiral covalent organic framework (COF) nanozyme with ultrahigh enzymatic activity. <i>Materials Horizons</i> , 2020, 7, 3291-3297.  | 6.4  | 60        |
| 418 | Synthesis of Imine-Based Covalent Organic Frameworks Catalyzed by Metal Halides and <i>in Situ</i> Growth of Perovskite@COF Composites. , 2020, 2, 1561-1566.  |      | 43        |
| 419 | Photosensitive Hyper-Cross-Linked Polymers Derived from Three-Dimensional Ringlike Arenes: Promising Catalysts for Singlet-Oxygen Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16320-16326. | 3.2  | 9         |
| 420 | Anchoring Pd(OAc) <sub>2</sub> on amide-bonded covalent organic frameworks: An efficient heterogeneous Pd@OC-MA catalyst for Suzuki-Miyaura coupling reactions in water. <i>Tetrahedron</i> , 2020, 76, 131664.        | 1.0  | 6         |
| 421 | Integrated nano-architected photocatalysts for photochemical CO <sub>2</sub> reduction. <i>Nanoscale</i> , 2020, 12, 23301-23332.  | 2.8  | 59        |
| 422 | Electronic Devices Using Open Framework Materials. <i>Chemical Reviews</i> , 2020, 120, 8581-8640.   | 23.0 | 185       |
| 423 | Recent Advances in Covalent Organic Framework-Based Nanosystems for Bioimaging and Therapeutic Applications. , 2020, 2, 1074-1092.   |      | 89        |
| 424 | Nanoscale covalent organic frameworks as theranostic platforms for oncotherapy: synthesis, functionalization, and applications. <i>Nanoscale Advances</i> , 2020, 2, 3656-3733.  | 2.2  | 100       |
| 425 | Sulfonated Triazine-Based Porous Organic Polymers for Excellent Proton Conductivity. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3267-3273.  | 2.0  | 13        |
| 426 | Organic solid-state lasers: a materials view and future development. <i>Chemical Society Reviews</i> , 2020, 49, 5885-5944.  | 18.7 | 250       |
| 427 | Crystalline and Stable Benzofuran-Linked Covalent Organic Frameworks from Irreversible Cascade Reactions. <i>Journal of the American Chemical Society</i> , 2020, 142, 13316-13321.                                    | 6.6  | 85        |
| 428 | Liquid Organic Frameworks: The Single-Network "Plumber's Nightmare" Bicontinuous Cubic Liquid Crystal. <i>Journal of the American Chemical Society</i> , 2020, 142, 3296-3300.   | 6.6  | 31        |
| 429 | Proton-Triggered Fluorescence Switching in Self-Exfoliated Ionic Covalent Organic Nanosheets for Applications in Selective Detection of Anions. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 13248-13255. | 4.0  | 69        |
| 430 | Electrochemical Sensors Based on Covalent Organic Frameworks: A Critical Review. <i>Frontiers in Chemistry</i> , 2020, 8, 601044.  | 1.8  | 38        |
| 431 | Template-Free Preparation of Hierarchical Porous Carbon Nanosheets for Lithium-Sulfur Battery. <i>Langmuir</i> , 2020, 36, 14507-14513.  | 1.6  | 22        |
| 432 | Diverse crystal size effects in covalent organic frameworks. <i>Nature Communications</i> , 2020, 11, 6128.  | 5.8  | 55        |
| 433 | Covalent Organic Polymer as a Carborane Carrier for Imaging-Facilitated Boron Neutron Capture Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 55564-55573.  | 4.0  | 38        |
| 434 | Electronic and Optical Properties of Protonated Triazine Derivatives. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27801-27810.   | 1.5  | 5         |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 435 | Two-Dimensional COFâ€“Three-Dimensional MOF Dual-Layer Membranes with Unprecedentedly High H <sub>2</sub> /CO <sub>2</sub> Selectivity and Ultrahigh Gas Permeabilities. ACS Applied Materials & Interfaces, 2020, 12, 52899-52907. | 4.0  | 59        |
| 436 | Synthesis of Chiral Porous Organic Polymers Through Nucleophilic Substitution for Chiral Separation. ACS Applied Polymer Materials, 2020, 2, 5414-5422.   | 2.0  | 12        |
| 437 | Weakly Humidityâ€“Dependent Protonâ€“Conducting COF Membranes. Advanced Materials, 2020, 32, e2005565.  | 11.1 | 201       |
| 438 | The Immobilization of Pd(II) on Porous Organic Polymers for Semihydrogenation of Terminal Alkynes. ACS Applied Materials & Interfaces, 2020, 12, 51428-51436.   | 4.0  | 12        |
| 439 | Sulfurâ€“and Nitrogenâ€“Rich Porous Î€â€“Conjugated COFs as Stable Electrode Materials for Electroâ€“Ionic Soft Actuators. Advanced Functional Materials, 2020, 30, 2003863.  | 7.8  | 30        |
| 440 | Two-dimensional semiconducting covalent organic frameworks for photocatalytic solar fuel production. Materials Today, 2020, 40, 160-172.  | 8.3  | 56        |
| 441 | Covalent Organic Frameworks: Pore Design and Interface Engineering. Accounts of Chemical Research, 2020, 53, 1672-1685.   | 7.6  | 153       |
| 442 | Covalent Organic Frameworks for Nextâ€“Generation Batteries. ChemElectroChem, 2020, 7, 3905-3926.   | 1.7  | 41        |
| 443 | Multiscale Hierarchically Engineered Carbon Nanosheets Derived from Covalent Organic Framework for Potassiumâ€“Ion Batteries. Small Methods, 2020, 4, 2000159.  | 4.6  | 36        |
| 444 | Covalent Organic Framework Decorated TiO <sub>2</sub> Nanotube Arrays for Photoelectrochemical Cathodic Protection of Steel. Corrosion Science, 2020, 176, 108920.  | 3.0  | 58        |
| 445 | Versatile Platform of Ion Conducting 2D Anionic Germanate Covalent Organic Frameworks with Potential for Capturing Toxic Acidic Gases. ACS Applied Materials & Interfaces, 2020, 12, 40372-40380.                                   | 4.0  | 22        |
| 446 | Recent advances in CO <sub>2</sub> capture and simultaneous conversion into cyclic carbonates over porous organic polymers having accessible metal sites. Journal of Materials Chemistry A, 2020, 8, 18408-18424.                   | 5.2  | 91        |
| 447 | A Truxenoneâ€“Based Covalent Organic Framework as an Allâ€“Solidâ€“State Lithiumâ€“Ion Battery Cathode with High Capacity. Angewandte Chemie, 2020, 132, 20565-20569.   | 1.6  | 5         |
| 448 | Noncovalent Î€-stacked robust topological organic framework. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20397-20403.   | 3.3  | 28        |
| 449 | A simple and cost-effective synthesis of ionic porous organic polymers with excellent porosity for high iodine capture. Polymer, 2020, 204, 122796.   | 1.8  | 27        |
| 450 | Porous organic polymer material supported palladium nanoparticles. Journal of Materials Chemistry A, 2020, 8, 17360-17391.  | 5.2  | 93        |
| 451 | A Truxenoneâ€“Based Covalent Organic Framework as an Allâ€“Solidâ€“State Lithiumâ€“Ion Battery Cathode with High Capacity. Angewandte Chemie - International Edition, 2020, 59, 20385-20389.  | 7.2  | 110       |
| 452 | Chiral covalent organic frameworks: design, synthesis and property. Chemical Society Reviews, 2020, 49, 6248-6272.  | 18.7 | 211       |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 453 | Accelerating Crystallization of Open Organic Materials by Poly(ionic liquid)s. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22109-22116.   | 7.2  | 37        |
| 454 | Metalloporphyrin-based covalent organic frameworks composed of the electron donor-acceptor dyads for visible-light-driven selective CO <sub>2</sub> reduction. <i>Science China Chemistry</i> , 2020, 63, 1289-1294. | 4.2  | 73        |
| 455 | De Novo Design of Covalent Organic Framework Membranes toward Ultrafast Anion Transport. <i>Advanced Materials</i> , 2020, 32, e2001284.   | 11.1 | 130       |
| 456 | Synthetic Protocol for Assembling Giant Heterometallic Hydroxide Clusters from Building Blocks: Rational Design and Efficient Synthesis. <i>Matter</i> , 2020, 3, 1334-1349.   | 5.0  | 26        |
| 457 | Ultrathin porphyrin and tetra-indole covalent organic frameworks for organic electronics applications. <i>Journal of Chemical Physics</i> , 2020, 153, 044702.   | 1.2  | 21        |
| 458 | Accelerating Crystallization of Open Organic Materials by Poly(ionic liquid)s. <i>Angewandte Chemie</i> , 2020, 132, 22293-22300.  | 1.6  | 9         |
| 459 | Surface Coordination Chemistry of Atomically Dispersed Metal Catalysts. <i>Chemical Reviews</i> , 2020, 120, 11810-11899.  | 23.0 | 325       |
| 460 | Covalent organic frameworks: Polymer chemistry and functional design. <i>Progress in Polymer Science</i> , 2020, 108, 101288.  | 11.8 | 78        |
| 461 | Semiconductive Covalent Organic Frameworks: Structural Design, Synthesis, and Application. <i>Small Structures</i> , 2020, 1, 2000021.   | 6.9  | 43        |
| 462 | Shaping of porous polymers. <i>Polymer</i> , 2020, 207, 122928.  | 1.8  | 7         |
| 463 | Partitioning the interlayer space of covalent organic frameworks by embedding pseudorotaxanes in their backbones. <i>Nature Chemistry</i> , 2020, 12, 1115-1122.   | 6.6  | 88        |
| 464 | A hydrazone-based covalent organic framework/iridium (III) complex for photochemical CO <sub>2</sub> reduction with enhanced efficiency and durability. <i>Journal of Catalysis</i> , 2020, 392, 49-55.              | 3.1  | 20        |
| 465 | Luminescent sensing of nitroaromatics by crystalline porous materials. <i>CrystEngComm</i> , 2020, 22, 7736-7781.  | 1.3  | 97        |
| 466 | Highly conducting Wurster-type twisted covalent organic frameworks. <i>Chemical Science</i> , 2020, 11, 12843-12853.   | 3.7  | 48        |
| 467 | Direct $\epsilon$ Space Structure Determination of Covalent Organic Frameworks from 3D Electron Diffraction Data. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22638-22644.                          | 7.2  | 23        |
| 468 | Boronate Covalent and Hybrid Organic Frameworks Featuring P III and P=O Lewis Base Sites. <i>Chemistry - A European Journal</i> , 2020, 26, 12688-12688.   | 1.7  | 4         |
| 469 | Structural features of proton-conducting metal organic and covalent organic frameworks. <i>CrystEngComm</i> , 2020, 22, 6425-6443.   | 1.3  | 23        |
| 470 | Advances and challenges for experiment and theory for multi-electron multi-proton transfer at electrified solid-liquid interfaces. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19401-19442.               | 1.3  | 38        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 471 | Isolated flat bands and physics of mixed dimensions in a 2D covalent organic framework. <i>Nanoscale</i> , 2020, 12, 20279-20286.  | 2.8  | 7         |
| 472 | Ultralight covalent organic framework/graphene aerogels with hierarchical porosity. <i>Nature Communications</i> , 2020, 11, 4712.   | 5.8  | 183       |
| 473 | Pd Nanoparticles Loaded on Two-Dimensional Covalent Organic Frameworks with Enhanced Catalytic Performance for Phenol Hydrogenation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 18489-18499.     | 1.8  | 26        |
| 474 | Ultrathin heterostructured covalent organic framework membranes with interfacial molecular sieving capacity for fast water-selective permeation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19328-19336.         | 5.2  | 43        |
| 475 | Structural Approaches to Control Interlayer Interactions in 2D Covalent Organic Frameworks. <i>Advanced Materials</i> , 2020, 32, e2002366.  | 11.1 | 60        |
| 476 | Amorphous covalent inorganic-organic hybrid frameworks (CIOFs) with an aggregation induced selective response to UV-Visible light and their DFT studies. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13612-13620. | 2.7  | 8         |
| 477 | Direct-Space Structure Determination of Covalent Organic Frameworks from 3D Electron Diffraction Data. <i>Angewandte Chemie</i> , 2020, 132, 22827-22833.  | 1.6  | 2         |
| 478 | Three-Dimensional Covalent Organic Frameworks: From Topology Design to Applications. <i>Accounts of Chemical Research</i> , 2020, 53, 2225-2234.   | 7.6  | 149       |
| 479 | Homogeneous Polymerization of Self-standing Covalent Organic Framework Films with High Performance in Molecular Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 41942-41949.                       | 4.0  | 33        |
| 480 | Near-infrared fluorescent organic porous crystal that responds to solvent vapors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12437-12444.  | 2.7  | 15        |
| 481 | Supercapacitors based on three-dimensional porous carbon/covalent-organic framework/polyaniline array composites. <i>Journal of Energy Storage</i> , 2020, 32, 101786.   | 3.9  | 9         |
| 482 | Resistive Switching Memory Performance of Two-Dimensional Polyimide Covalent Organic Framework Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 51837-51845.   | 4.0  | 57        |
| 483 | Heteroporous bifluorenylidene-based covalent organic frameworks displaying exceptional dye adsorption behavior and high energy storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25148-25155.                  | 5.2  | 66        |
| 484 | Chemically Robust Covalent Organic Frameworks: Progress and Perspective. <i>Matter</i> , 2020, 3, 1507-1540.   | 5.0  | 94        |
| 485 | Ultrathin Aramid/COF Heterolayered Membrane for Solid-State Li-Metal Batteries. <i>Nano Letters</i> , 2020, 20, 8120-8126.   | 4.5  | 63        |
| 486 | Divergent Chemistry Paths for 3D and 1D Metallo-Covalent Organic Frameworks (COFs). <i>Angewandte Chemie</i> , 2020, 132, 11624-11629.   | 1.6  | 10        |
| 487 | Chip-Level Integration of Covalent Organic Frameworks for Trace Benzene Sensing. <i>ACS Sensors</i> , 2020, 5, 1474-1481.  | 4.0  | 56        |
| 488 | Bulk COFs and COF nanosheets for electrochemical energy storage and conversion. <i>Chemical Society Reviews</i> , 2020, 49, 3565-3604.   | 18.7 | 617       |



| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 489 | Recent Progress in Metal-Free Covalent Organic Frameworks as Heterogeneous Catalysts. <i>Small</i> , 2020, 16, e2001070.  | 5.2  | 229       |
| 490 | Metal-Free Magnetism in Chemically Doped Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 11013-11021.   | 6.6  | 28        |
| 491 | Two-dimensional covalent organic frameworks with hierarchical porosity. <i>Chemical Society Reviews</i> , 2020, 49, 3920-3951.  | 18.7 | 302       |
| 492 | A Stable and Conductive Metallophthalocyanine Framework for Electrocatalytic Carbon Dioxide Reduction in Water. <i>Angewandte Chemie</i> , 2020, 132, 16730-16736.                        | 1.6  | 59        |
| 493 | A Stable and Conductive Metallophthalocyanine Framework for Electrocatalytic Carbon Dioxide Reduction in Water. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16587-16593. | 7.2  | 214       |
| 494 | Triphenylphosphine-Based Covalent Organic Frameworks and Heterogeneous Rhodium-COFs Catalysts. <i>Chemistry - A European Journal</i> , 2020, 26, 12134-12139.                             | 1.7  | 37        |
| 495 | Function-oriented synthesis of two-dimensional (2D) covalent organic frameworks "from 3D solids to 2D sheets. <i>Chemical Society Reviews</i> , 2020, 49, 4835-4866.                      | 18.7 | 129       |
| 496 | Porous triazine polymer: A novel catalyst for the three-component reaction. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5677.  | 1.7  | 16        |
| 497 | A covalent organic framework exhibiting amphiphilic selective adsorption toward ionic organic dyes tuned by pH value. <i>European Polymer Journal</i> , 2020, 133, 109764.                | 2.6  | 38        |
| 498 | Synthesis of Stable Thiazole-Linked Covalent Organic Frameworks via a Multicomponent Reaction. <i>Journal of the American Chemical Society</i> , 2020, 142, 11131-11138.                  | 6.6  | 158       |
| 499 | Surface controlled pseudo-capacitive reactions enabling ultra-fast charging and long-life organic lithium ion batteries. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4179-4185.        | 2.5  | 30        |
| 500 | Boronate Covalent and Hybrid Organic Frameworks Featuring P <sup>III</sup> and P=O Lewis Base Sites. <i>Chemistry - A European Journal</i> , 2020, 26, 12758-12768.                       | 1.7  | 10        |
| 501 | Covalent organic frameworks for photocatalytic applications. <i>Applied Catalysis B: Environmental</i> , 2020, 276, 119174.   | 10.8 | 277       |
| 502 | Semiconductive Porphyrin-Based Covalent Organic Frameworks for Sensitive Near-Infrared Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 37427-37434.                  | 4.0  | 67        |
| 503 | Covalent organic frameworks functionalized carbon fiber paper for the capture and detection of hydroxyl radical in the atmosphere. <i>Chinese Chemical Letters</i> , 2020, 31, 2495-2498. | 4.8  | 23        |
| 504 | Enhancement of crystallinity of imine-linked covalent organic frameworks <i>via</i> aldehyde modulators. <i>Polymer Chemistry</i> , 2020, 11, 4464-4468.                                  | 1.9  | 33        |
| 505 | Protein-assisted synthesis of nanoscale covalent organic frameworks for phototherapy of cancer. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2346-2356.                                | 3.2  | 34        |
| 506 | Microporous Frameworks as Promising Platforms for Antibacterial Strategies Against Oral Diseases. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 628.                    | 2.0  | 18        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 507 | Irreversible Amide-Linked Covalent Organic Framework for Selective and Ultrafast Gold Recovery. <i>Angewandte Chemie</i> , 2020, 132, 17760-17766.  | 1.6 | 18        |
| 508 | Irreversible Amide-Linked Covalent Organic Framework for Selective and Ultrafast Gold Recovery. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17607-17613.   | 7.2 | 174       |
| 509 | Molecularly Imprinted Porous Aromatic Frameworks for Molecular Recognition. <i>ACS Central Science</i> , 2020, 6, 1082-1094.  | 5.3 | 46        |
| 510 | Porous Organic Polymers as Promising Electrode Materials for Energy Storage Devices. <i>Advanced Materials Technologies</i> , 2020, 5, .  | 3.0 | 72        |
| 511 | Recent applications of covalent organic frameworks and their multifunctional composites for food contaminant analysis. <i>Food Chemistry</i> , 2020, 330, 127255.   | 4.2 | 58        |
| 512 | Nodal Flexible-surface Semimetals: Case of Carbon Nanotube Networks. <i>Nano Letters</i> , 2020, 20, 5400-5407.   | 4.5 | 36        |
| 513 | Microporous Hydrogen-Bonded Organic Framework for Highly Efficient Turn-Up Fluorescent Sensing of Aniline. <i>Journal of the American Chemical Society</i> , 2020, 142, 12478-12485.  | 6.6 | 201       |
| 514 | TCNQ Confined in Porous Organic Structure as Cathode for Aqueous Zinc Battery. <i>Journal of the Electrochemical Society</i> , 2020, 167, 100552.   | 1.3 | 26        |
| 515 | Ni/Fe Clusters and Nanoparticles Confined by Covalent Organic Framework Derived Carbon as Highly Active Catalysts toward Oxygen Reduction Reaction and Oxygen Evolution Reaction. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000115. | 2.7 | 34        |
| 516 | Organic-Inorganic Hybrid Nanomaterials for Electrocatalytic CO <sub>2</sub> Reduction. <i>Small</i> , 2020, 16, e2001847.   | 5.2 | 79        |
| 517 | Phenanthroline Covalent Organic Framework Electrodes for High-Performance Zinc-Ion Supercapattery. <i>ACS Energy Letters</i> , 2020, 5, 2256-2264.  | 8.8 | 175       |
| 518 | Pd Nanoclusters Supported by Amine-Functionalized Covalent Organic Frameworks for Benzyl Alcohol Oxidation. <i>ACS Applied Nano Materials</i> , 2020, 3, 6416-6422.   | 2.4 | 32        |
| 519 | Integrating single Ni sites into biomimetic networks of covalent organic frameworks for selective photoreduction of CO <sub>2</sub> . <i>Chemical Science</i> , 2020, 11, 6915-6922.  | 3.7 | 78        |
| 520 | Two-dimensional conjugated polymer films <i>via</i> liquid-interface-assisted synthesis toward organic electronic devices. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10696-10718.  | 2.7 | 32        |
| 521 | Phenanthroline-functionalized porous aromatic framework: An efficient heterogeneous catalyst for the tandem reaction of 2-iodoanilines and isothiocyanates in water. <i>Microporous and Mesoporous Materials</i> , 2020, 305, 110313.     | 2.2 | 11        |
| 522 | Single crystal of a one-dimensional metallo-covalent organic framework. <i>Nature Communications</i> , 2020, 11, 1434.  | 5.8 | 77        |
| 523 | Emerging applications of porous organic polymers in visible-light photocatalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7003-7034.   | 5.2 | 215       |
| 524 | Construction of Covalent Organic Frameworks via Three-Component One-Pot Strecker and Povarov Reactions. <i>Journal of the American Chemical Society</i> , 2020, 142, 6521-6526.   | 6.6 | 146       |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 525 | A Nickel-Doped Dehydrobenzoannulene-Based Two-Dimensional Covalent Organic Framework for the Reductive Cleavage of Inert Aryl C–S Bonds. <i>Journal of the American Chemical Society</i> , 2020, 142, 5521-5525.        | 6.6  | 45        |
| 526 | A facile solution-phase synthetic approach for constructing phenol-based porous organic cages and covalent organic frameworks. <i>Green Chemistry</i> , 2020, 22, 2498-2504.  | 4.6  | 32        |
| 527 | Carboxyl-functionalized magnetic porous organic polymers as efficient adsorbent for wastewater remediation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 109, 97-102.                           | 2.7  | 17        |
| 528 | Photocatalytic proton reduction by a computationally identified, molecular hydrogen-bonded framework. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7158-7170.   | 5.2  | 45        |
| 529 | Topological two-dimensional polymers. <i>Chemical Society Reviews</i> , 2020, 49, 2007-2019.  | 18.7 | 76        |
| 530 | Transformation Strategy for Highly Crystalline Covalent Triazine Frameworks: From Staggered AB to Eclipsed AA Stacking. <i>Journal of the American Chemical Society</i> , 2020, 142, 6856-6860.                         | 6.6  | 136       |
| 531 | High-Flux Vertically Aligned 2D Covalent Organic Framework Membrane with Enhanced Hydrogen Separation. <i>Journal of the American Chemical Society</i> , 2020, 142, 6872-6877.  | 6.6  | 217       |
| 532 | Advanced functional polymer materials. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1803-1915.   | 3.2  | 117       |
| 533 | Divergent Chemistry Paths for 3D and 1D Metallo-Covalent Organic Frameworks (COFs). <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11527-11532.   | 7.2  | 35        |
| 534 | Chemical Synthesis of Single Atomic Site Catalysts. <i>Chemical Reviews</i> , 2020, 120, 11900-11955.   | 23.0 | 806       |
| 535 | Scalable preparation of individual, uniform hyper-crosslinked polyimide hollow spheres through solid-state powder foaming: The power of network manipulation. <i>Materials Today Communications</i> , 2020, 24, 101030. | 0.9  | 5         |
| 536 | Lithium-conducting covalent-organic-frameworks as artificial solid-electrolyte-interphase on silicon anode for high performance lithium ion batteries. <i>Nano Energy</i> , 2020, 72, 104657.                           | 8.2  | 93        |
| 537 | Hydrogen bonding induces dual porous types with microporous and mesoporous covalent organic frameworks based on bicarbazole units. <i>Microporous and Mesoporous Materials</i> , 2020, 300, 110151.                     | 2.2  | 35        |
| 538 | Ultramicroporous organic materials for selective separation of xenon from krypton. <i>Microporous and Mesoporous Materials</i> , 2020, 305, 110390.   | 2.2  | 6         |
| 539 | Thiophene-embedded conjugated microporous polymers for photocatalysis. <i>Catalysis Science and Technology</i> , 2020, 10, 5171-5180.   | 2.1  | 37        |
| 540 | Applications of Dynamic Covalent Chemistry Concept toward Tailored Covalent Organic Framework Nanomaterials: A Review. <i>ACS Applied Nano Materials</i> , 2020, 3, 6239-6269.  | 2.4  | 96        |
| 541 | Electroactive Covalent Organic Frameworks: Design, Synthesis, and Applications. <i>Advanced Materials</i> , 2020, 32, e2002038.   | 11.1 | 148       |
| 542 | Expeditious synthesis of covalent organic frameworks: a review. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16045-16060.   | 5.2  | 97        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 543 | Multibranching Octupolar Module Embedded Covalent Organic Frameworks Enable Efficient Two-Photon Fluorescence. <i>Advanced Functional Materials</i> , 2020, 30, 2000516.   | 7.8  | 56        |
| 544 | Intramolecular Hydrogen Bonding-Based Topology Regulation of Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 13162-13169.  | 6.6  | 85        |
| 545 | Templated synthesis of cobalt subnanoclusters dispersed N/C nanocages from COFs for highly-efficient oxygen reduction reaction. <i>Chemical Engineering Journal</i> , 2020, 401, 126149.                                       | 6.6  | 40        |
| 546 | Interlayer Shifting in Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 12995-13002.  | 6.6  | 99        |
| 547 | Schiff base type conjugated organic framework nanofibers: Solvothermal synthesis and electrochromic properties. <i>Solar Energy Materials and Solar Cells</i> , 2020, 209, 110438.   | 3.0  | 45        |
| 548 | Supramolecular Alternating Donor-Acceptor Assembly toward Intercalated Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 3712-3717.  | 6.6  | 38        |
| 549 | Sequence-selective dynamic covalent assembly of information-bearing oligomers. <i>Nature Communications</i> , 2020, 11, 784.   | 5.8  | 27        |
| 550 | Flexible and robust bimetallic covalent organic frameworks for the reversible switching of electrocatalytic oxygen evolution activity. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5907-5912.                           | 5.2  | 50        |
| 551 | Porous Aromatic Frameworks (PAFs). <i>Chemical Reviews</i> , 2020, 120, 8934-8986.   | 23.0 | 389       |
| 552 | Metal-free photocatalysts for hydrogen evolution. <i>Chemical Society Reviews</i> , 2020, 49, 1887-1931.   | 18.7 | 374       |
| 553 | Design and applications of three dimensional covalent organic frameworks. <i>Chemical Society Reviews</i> , 2020, 49, 1357-1384.   | 18.7 | 509       |
| 554 | Bromine-Functionalized Covalent Organic Frameworks for Efficient Triboelectric Nanogenerator. <i>Chemistry - A European Journal</i> , 2020, 26, 5784-5788.   | 1.7  | 40        |
| 555 | Crystalline, porous, covalent polyoxometalate-organic frameworks for lithium-ion batteries. <i>Microporous and Mesoporous Materials</i> , 2020, 299, 110105.   | 2.2  | 28        |
| 556 | Integrating Suitable Linkage of Covalent Organic Frameworks into Covalently Bridged Inorganic/Organic Hybrids toward Efficient Photocatalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 4862-4871.         | 6.6  | 304       |
| 557 | Thiol-functionalized magnetic covalent organic frameworks by a cutting strategy for efficient removal of Hg <sup>2+</sup> from water. <i>Journal of Hazardous Materials</i> , 2020, 392, 122320.                               | 6.5  | 83        |
| 558 | Rapid, Scalable Construction of Highly Crystalline Acylhydrazone Two-Dimensional Covalent Organic Frameworks via Dipole-Induced Antiparallel Stacking. <i>Journal of the American Chemical Society</i> , 2020, 142, 4932-4943. | 6.6  | 99        |
| 559 | Hybrid Catalysts for Artificial Photosynthesis: Merging Approaches from Molecular, Materials, and Biological Catalysis. <i>Accounts of Chemical Research</i> , 2020, 53, 575-587.  | 7.6  | 93        |
| 560 | Densely colonized isolated Cu-N single sites for efficient bifunctional electrocatalysts and rechargeable advanced Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118746.                            | 10.8 | 110       |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 561 | Toward Stable Lithium Plating/Stripping by Successive Desolvation and Exclusive Transport of Li Ions. ACS Applied Materials & Interfaces, 2020, 12, 10461-10470.  | 4.0  | 50        |
| 562 | Beyond the Mahan's Softest thermoelectric strategy: high thermoelectric performance from directional $\pi$ -conjugation in two-dimensional poly(tetrathienoanthracene). Journal of Materials Chemistry A, 2020, 8, 4257-4262. | 5.2  | 13        |
| 563 | Exfoliated Mesoporous 2D Covalent Organic Frameworks for High-Rate Electrochemical Double-Layer Capacitors. Advanced Materials, 2020, 32, e1907289.   | 11.1 | 136       |
| 564 | Covalent Organic Frameworks: Design, Synthesis, and Functions. Chemical Reviews, 2020, 120, 8814-8933.  | 23.0 | 1,968     |
| 565 | Highly Crystalline and Semiconducting Imine-Based Two-Dimensional Polymers Enabled by Interfacial Synthesis. Angewandte Chemie, 2020, 132, 6084-6092.   | 1.6  | 18        |
| 566 | Semiconductor/Covalent Organic Framework Z-Scheme Heterojunctions for Artificial Photosynthesis. Angewandte Chemie, 2020, 132, 6562-6568.   | 1.6  | 44        |
| 567 | Semiconductor/Covalent Organic Framework Z-Scheme Heterojunctions for Artificial Photosynthesis. Angewandte Chemie - International Edition, 2020, 59, 6500-6506.  | 7.2  | 328       |
| 568 | Designing Covalent Organic Frameworks with a Tailored Ionic Interface for Ion Transport across One-Dimensional Channels. Angewandte Chemie, 2020, 132, 4587-4593.   | 1.6  | 10        |
| 569 | A Corrole-Based Covalent Organic Framework Featuring Desymmetrized Topology. Angewandte Chemie, 2020, 132, 4384-4389.   | 1.6  | 6         |
| 570 | Biomimetic Synthesis of Sub-20 nm Covalent Organic Frameworks in Water. Journal of the American Chemical Society, 2020, 142, 3540-3547.   | 6.6  | 68        |
| 571 | Emerging covalent organic frameworks tailored materials for electrocatalysis. Nano Energy, 2020, 70, 104525.  | 8.2  | 143       |
| 572 | Advances in Conjugated Microporous Polymers. Chemical Reviews, 2020, 120, 2171-2214.  | 23.0 | 810       |
| 573 | Processing supramolecular framework for free interconvertible liquid separation. Nature Communications, 2020, 11, 425.  | 5.8  | 53        |
| 574 | Covalent organic frameworks for separation applications. Chemical Society Reviews, 2020, 49, 708-735.   | 18.7 | 804       |
| 575 | A pre-synthetic strategy to construct single ion conductive covalent organic frameworks. Chemical Communications, 2020, 56, 2747-2750.  | 2.2  | 29        |
| 576 | Laminated self-standing covalent organic framework membrane with uniformly distributed subnanopores for ionic and molecular sieving. Nature Communications, 2020, 11, 599.  | 5.8  | 205       |
| 577 | Preparing two-dimensional crystalline conjugated polymer films by synergetic polymerization and self-assembly at air/water interface. Polymer Chemistry, 2020, 11, 1572-1579.   | 1.9  | 9         |
| 578 | Highly Crystalline and Semiconducting Imine-Based Two-Dimensional Polymers Enabled by Interfacial Synthesis. Angewandte Chemie - International Edition, 2020, 59, 6028-6036.  | 7.2  | 98        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 579 | Photocatalytic Reduction of CO <sub>2</sub> by Metal-Free Based Materials: Recent Advances and Future Perspective. Solar Rrl, 2020, 4, 1900546.  | 3.1 | 177       |
| 580 | Two-Dimensional Membranes: New Paradigms for High-Performance Separation Membranes. Chemistry - an Asian Journal, 2020, 15, 2241-2270.   | 1.7 | 36        |
| 581 | 2D Covalent Organic Frameworks for Biomedical Applications. Advanced Functional Materials, 2020, 30, 2002046.  | 7.8 | 172       |
| 582 | Polyphenylene networks containing triptycene units: Promising porous materials for CO <sub>2</sub> , CH <sub>4</sub> , and H <sub>2</sub> adsorption. Microporous and Mesoporous Materials, 2020, 303, 110256. | 2.2 | 13        |
| 583 | Enhanced Proton Conductivity of Imidazole-Doped Thiophene-Based Covalent Organic Frameworks via Subtle Hydrogen Bonding Modulation. ACS Applied Materials & Interfaces, 2020, 12, 22910-22916.                 | 4.0 | 62        |
| 584 | Identification of Prime Factors to Maximize the Photocatalytic Hydrogen Evolution of Covalent Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 9752-9762.                              | 6.6 | 94        |
| 585 | Pore engineering of ultrathin covalent organic framework membranes for organic solvent nanofiltration and molecular sieving. Chemical Science, 2020, 11, 5434-5440.  | 3.7 | 78        |
| 586 | Unravelling Crystal Structures of Covalent Organic Frameworks by Electron Diffraction Tomography. Chinese Journal of Chemistry, 2020, 38, 1153-1166.   | 2.6 | 31        |
| 587 | Electron Beam Irradiation as a General Approach for the Rapid Synthesis of Covalent Organic Frameworks under Ambient Conditions. Journal of the American Chemical Society, 2020, 142, 9169-9174.               | 6.6 | 90        |
| 588 | Synthesis and characterization of a novel fluorene-based covalent triazine framework as a chemical adsorbent for highly efficient dye removal. Polymer, 2020, 195, 122430.                                     | 1.8 | 53        |
| 589 | Structural Engineering of Two-Dimensional Covalent Organic Frameworks for Visible-Light-Driven Organic Transformations. ACS Applied Materials & Interfaces, 2020, 12, 20354-20365.                             | 4.0 | 80        |
| 590 | Oriented Zeolitic Imidazolate Framework (ZIF) Nanocrystal Films for Molecular Separation Membranes. ACS Applied Nano Materials, 2020, 3, 3839-3846.  | 2.4 | 20        |
| 591 | Screening metal-free photocatalysts from isomorphous covalent organic frameworks for the C-3 functionalization of indoles. Journal of Materials Chemistry A, 2020, 8, 8706-8715.                               | 5.2 | 66        |
| 592 | Topology-Templated Synthesis of Crystalline Porous Covalent Organic Frameworks. Angewandte Chemie - International Edition, 2020, 59, 12162-12169.  | 7.2 | 66        |
| 593 | Confining H <sub>3</sub> PO <sub>4</sub> network in covalent organic frameworks enables proton super flow. Nature Communications, 2020, 11, 1981.  | 5.8 | 114       |
| 594 | 2D Porous Polymers with sp <sup>2</sup> -Carbon Connections and Sole sp <sup>2</sup> -Carbon Skeletons. Advanced Functional Materials, 2020, 30, 2000857.  | 7.8 | 42        |
| 595 | Topology-Templated Synthesis of Crystalline Porous Covalent Organic Frameworks. Angewandte Chemie, 2020, 132, 12260-12267.   | 1.6 | 20        |
| 596 | Research Progress in Covalent Organic Frameworks for Photoluminescent Materials. Chemistry - A European Journal, 2020, 26, 16568-16581.  | 1.7 | 31        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 597 | Determination of bisphenol A and bisphenol S by a covalent organic framework electrochemical sensor. <i>Environmental Pollution</i> , 2020, 263, 114616.   | 3.7  | 79        |
| 598 | Crystal Engineering of Hybrid Coordination Networks: From Form to Function. <i>Trends in Chemistry</i> , 2020, 2, 506-518.   | 4.4  | 55        |
| 599 | New Opportunities for Functional Materials from Metal Phosphonates. , 2020, 2, 582-594.  |      | 33        |
| 600 | Covalent Organic Frameworks in Separation. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2020, 11, 131-153.  | 3.3  | 50        |
| 601 | Effects of connecting sequences of building blocks on reticular synthesis of covalent organic frameworks. <i>Nano Research</i> , 2021, 14, 381-386.  | 5.8  | 16        |
| 602 | Diyne-linked and fully $\pi$ -conjugated polymetalloporphyrin nanosheets for outstanding heterogeneous catalysis. <i>Science Bulletin</i> , 2021, 66, 354-361.   | 4.3  | 7         |
| 603 | Polymer photocatalysts for solar-to-chemical energy conversion. <i>Nature Reviews Materials</i> , 2021, 6, 168-190.  | 23.3 | 361       |
| 604 | A solution-processed nanoscale COF-like material towards optoelectronic applications. <i>Science China Chemistry</i> , 2021, 64, 82-91.  | 4.2  | 38        |
| 605 | Functionalization of covalent organic frameworks by metal modification: Construction, properties and applications. <i>Chemical Engineering Journal</i> , 2021, 404, 127136.  | 6.6  | 66        |
| 606 | The search for panchromatic light-harvesting systems: Ternary and binary antennae based on self-organised materials. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 405, 112872.           | 2.0  | 0         |
| 607 | Highly crystalline ionic covalent organic framework membrane for nanofiltration and charge-controlled organic pollutants removal. <i>Separation and Purification Technology</i> , 2021, 256, 117787.               | 3.9  | 38        |
| 608 | A solar light regenerated adsorbent by implanting CdS into an active covalent triazine framework to decontaminate tetracycline. <i>Separation and Purification Technology</i> , 2021, 255, 117696.                 | 3.9  | 3         |
| 609 | En Route Towards the Control of Luminescent, Optically Active 3D Architectures. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 766-773.  | 7.2  | 9         |
| 610 | Enhanced selective adsorption of NSAIDs by covalent organic frameworks via functional group tuning. <i>Chemical Engineering Journal</i> , 2021, 404, 127095.   | 6.6  | 66        |
| 611 | Recent progress and prospects of Li-CO <sub>2</sub> batteries: Mechanisms, catalysts and electrolytes. <i>Energy Storage Materials</i> , 2021, 34, 148-170.  | 9.5  | 88        |
| 612 | Recent Progress in Porous Fused Aromatic Networks and Their Applications. <i>Small Science</i> , 2021, 1, 2000007.   | 5.8  | 14        |
| 613 | Triazine-cored covalent organic framework for ultrasensitive detection of polybrominated diphenyl ethers from real samples: Experimental and DFT study. <i>Journal of Hazardous Materials</i> , 2021, 403, 123917. | 6.5  | 34        |
| 614 | Recent insight into functional crystalline porous frameworks for cancer photodynamic therapy. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 848-879.   | 3.0  | 28        |



| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 615 | Metalloporphyrin-based porous organic polymer as an efficient catalyst for cycloaddition of epoxides and CO <sub>2</sub> . <i>Journal of Solid State Chemistry</i> , 2021, 293, 121770.  | 1.4  | 24        |
| 616 | Covalent organic framework-based materials for energy applications. <i>Energy and Environmental Science</i> , 2021, 14, 688-728.   | 15.6 | 209       |
| 617 | BN-doped Metal-Organic Frameworks: Tailoring 2D and 3D Porous Architectures through Molecular Editing of Borazines. <i>Chemistry - A European Journal</i> , 2021, 27, 4124-4133.   | 1.7  | 8         |
| 618 | Functional covalent organic framework illuminate rapid and efficient capture of Cu (II) and reutilization to reduce fire hazards of epoxy resin. <i>Separation and Purification Technology</i> , 2021, 259, 118119.                                    | 3.9  | 29        |
| 619 | Visible light assisted chemical fixation of atmospheric CO <sub>2</sub> into cyclic Carbonates using covalent organic framework as a potential photocatalyst. <i>Molecular Catalysis</i> , 2021, 499, 111253.  | 1.0  | 34        |
| 620 | Triptycene-based three-dimensional covalent organic frameworks with <i>h</i> topology of honeycomb structure. <i>Materials Chemistry Frontiers</i> , 2021, 5, 944-949.   | 3.2  | 26        |
| 621 | Thiazolo[5,4-d]thiazole-Based Donor-Acceptor Covalent Organic Framework for Sunlight-Driven Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1869-1874.  | 7.2  | 186       |
| 622 | Efficient removal of tetracycline from aqueous solution by covalent organic frameworks derived porous carbon. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104842.  | 3.3  | 25        |
| 623 | Two-dimensional matrices confining metal single atoms with enhanced electrochemical reaction kinetics for energy storage applications. <i>Energy and Environmental Science</i> , 2021, 14, 1794-1834.  | 15.6 | 45        |
| 624 | Recyclability and selective fluorescence/colorimetric sensing properties of fluorescent porous materials synthesized by the copolymerization of 4-vinylpyridine zinc and divinylbenzene. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129102. | 4.0  | 5         |
| 625 | Facile preparation of hydroxyl bearing covalent organic frameworks for analysis of phenoxy carboxylic acid pesticide residue in plant-derived food. <i>Food Chemistry</i> , 2021, 345, 128749.   | 4.2  | 33        |
| 626 | Hin zur Kontrolle lumineszenter, optisch-aktiver 3D-Architekturen. <i>Angewandte Chemie</i> , 2021, 133, 777-785.  | 1.6  | 4         |
| 627 | Thiazolo[5,4-d]thiazole-Based Donor-Acceptor Covalent Organic Framework for Sunlight-Driven Hydrogen Evolution. <i>Angewandte Chemie</i> , 2021, 133, 1897-1902.   | 1.6  | 27        |
| 628 | Rational design of porous organic molecules (POMs) based on B-heterocyclic carbenes. <i>Molecular Systems Design and Engineering</i> , 2021, 6, 132-138.   | 1.7  | 5         |
| 629 | Two-Dimensional Covalent Organic Frameworks for Photocatalysis: The Critical Roles of Building Block and Linkage. <i>Solar Rrl</i> , 2021, 5, 2000458.   | 3.1  | 40        |
| 630 | In situ growth of COF-rLZU1 on the surface of silica sphere as stationary phase for high performance liquid chromatography. <i>Talanta</i> , 2021, 221, 121612.  | 2.9  | 32        |
| 631 | Microwave-Assisted Synthesis of Covalent Organic Frameworks: A Review. <i>ChemSusChem</i> , 2021, 14, 208-233.   | 3.6  | 80        |
| 632 | Reticular materials for electrochemical reduction of CO <sub>2</sub> . <i>Coordination Chemistry Reviews</i> , 2021, 427, 213564.  | 9.5  | 29        |



| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 633 | Harnessing selectivity in chemical sensing <i>via</i> supramolecular interactions: from functionalization of nanomaterials to device applications. <i>Materials Horizons</i> , 2021, 8, 2685-2708.                                 | 6.4  | 18        |
| 634 | Hierarchical porous covalent organic framework/graphene aerogel electrode for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16824-16833.  | 5.2  | 64        |
| 635 | Design strategies for improving the crystallinity of covalent organic frameworks and conjugated polymers: a review. <i>Materials Horizons</i> , 2022, 9, 121-146.  | 6.4  | 51        |
| 636 | Single molecule fluorescence imaging of nanoconfinement in porous materials. <i>Chemical Society Reviews</i> , 2021, 50, 6483-6506.  | 18.7 | 33        |
| 637 | A new hydrazone-linked covalent organic framework for Fe( <i>iii</i> ) detection by fluorescence and QCM technologies. <i>CrystEngComm</i> , 2021, 23, 3594-3601.  | 1.3  | 28        |
| 638 | Tunable construction of biphenyl-based porous polymeric nanostructures and their synergistically enhanced performance in pollutant adsorption and energy storage. <i>Microporous and Mesoporous Materials</i> , 2021, 312, 110800. | 2.2  | 12        |
| 639 | Covalent Organic Frameworks for Energy Conversions: Current Status, Challenges, and Perspectives. <i>CCS Chemistry</i> , 2021, 3, 2003-2024.   | 4.6  | 65        |
| 640 | Thiol-ene click synthesis of chiral covalent organic frameworks for gas chromatography. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21151-21157.  | 5.2  | 35        |
| 641 | Exfoliated covalent organic framework nanosheets. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7336-7365.  | 5.2  | 53        |
| 642 | <i>sp</i> <sup>2</sup> carbon-conjugated covalent organic frameworks: synthesis, properties, and applications. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2931-2949.  | 3.2  | 58        |
| 643 | Metal-Organic Framework-Based Enzyme Biocomposites. <i>Chemical Reviews</i> , 2021, 121, 1077-1129.  | 23.0 | 372       |
| 644 | Metal-organic and Covalent Organic Frameworks Incorporating Ru Species. , 2021, , 389-427.   |      | 1         |
| 645 | Smart covalent organic frameworks: dual channel sensors for acids and bases. <i>Chemical Communications</i> , 2021, 57, 9418-9421.   | 2.2  | 20        |
| 646 | Phosphine based covalent organic framework as an advanced electrode material for electrochemical energy storage. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 1602-1615.                              | 1.1  | 22        |
| 647 | Interactions of aromatic rings in the crystal structures of hybrid polyoxometalates and Ru clusters. <i>CrystEngComm</i> , 2021, 23, 6409-6417.  | 1.3  | 9         |
| 648 | Recent advances in multi-component reactions and their mechanistic insights: a triennium review. <i>Organic Chemistry Frontiers</i> , 2021, 8, 4237-4287.  | 2.3  | 158       |
| 649 | Tailored covalent organic frameworks for simultaneously capturing and converting CO <sub>2</sub> into cyclic carbonates. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20941-20956.   | 5.2  | 73        |
| 650 | Current Research Trends and Perspectives on Solid-State Nanomaterials in Hydrogen Storage. <i>Research</i> , 2021, 2021, 3750689.  | 2.8  | 45        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 651 | Reticular design and crystal structure determination of covalent organic frameworks. <i>Chemical Science</i> , 2021, 12, 8632-8647.   | 3.7  | 41        |
| 652 | Highlights of the characterization techniques on inorganic, organic (COF) and hybrid (MOF) photocatalytic semiconductors. <i>Catalysis Science and Technology</i> , 2021, 11, 392-415.                  | 2.1  | 50        |
| 653 | A Crystalline Three-Dimensional Covalent Organic Framework with Flexible Building Blocks. <i>Journal of the American Chemical Society</i> , 2021, 143, 2123-2129.                                       | 6.6  | 105       |
| 654 | Advances in electrochemical energy storage with covalent organic frameworks. <i>Materials Advances</i> , 0, , .   | 2.6  | 26        |
| 655 | High effective enrichment of U( <sup>VI</sup> ) from aqueous solutions on versatile crystalline carbohydrate polymer-functionalized graphene oxide. <i>Dalton Transactions</i> , 2021, 50, 14009-14017. | 1.6  | 6         |
| 656 | Design and application of covalent organic frameworks for ionic conduction. <i>Polymer Chemistry</i> , 2021, 12, 4874-4894.   | 1.9  | 27        |
| 657 | Covalent organic frameworks: an ideal platform for designing ordered materials and advanced applications. <i>Chemical Society Reviews</i> , 2021, 50, 120-242.  | 18.7 | 472       |
| 658 | Asymmetric Organocatalysis with Chiral Covalent Organic Frameworks. <i>Organic Materials</i> , 2021, 03, 245-253.   | 1.0  | 5         |
| 659 | A review of covalent organic framework electrode materials for rechargeable metal-ion batteries. <i>New Carbon Materials</i> , 2021, 36, 1-18.  | 2.9  | 23        |
| 660 | Ferric acetylacetonate/covalent organic framework composite for high performance photocatalytic oxidation. <i>Green Energy and Environment</i> , 2022, 7, 1281-1288.                                    | 4.7  | 9         |
| 661 | Preparation of MIL-101-NH <sub>2</sub> MOF/triazine based covalent organic framework hybrid and its application in acid blue 9 removals. <i>Polymer</i> , 2021, 215, 123383.                            | 1.8  | 42        |
| 662 | Strong and flaw-insensitive two-dimensional covalent organic frameworks. <i>Matter</i> , 2021, 4, 1017-1028.  | 5.0  | 23        |
| 663 | Fabrication of Advanced Hierarchical Porous Polymer Nanosheets and Their Application in Lithium-Sulfur Batteries. <i>Macromolecules</i> , 2021, 54, 2992-2999.  | 2.2  | 13        |
| 664 | Crystalline Porous Materials for Nonlinear Optics. <i>Small</i> , 2021, 17, e2006416.   | 5.2  | 52        |
| 665 | Recent advances of covalent organic frameworks and their application in sample preparation of biological analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 136, 116182.                    | 5.8  | 47        |
| 667 | Covalent Organic Frameworks for Efficient Energy Electrocatalysis: Rational Design and Progress. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000090.                                 | 2.8  | 29        |
| 668 | Structural Engineering of Covalent Organic Frameworks for Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003054.   | 10.2 | 61        |
| 669 | Covalent organic framework nanofluidic membrane as a platform for highly sensitive bionic thermosensation. <i>Nature Communications</i> , 2021, 12, 1844.   | 5.8  | 71        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 670 | Flexible and Semi-flexible Amide-Hydrazide Decorated Fluorescent Covalent Organic Frameworks as On-Off pH Responsive Proton Scavengers. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 14160-14168.                                 | 4.0  | 31        |
| 671 | Selection of Covalent Organic Framework Pore Functionalities for Differential Adsorption of Microcystin Toxin Analogues. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 15053-15063.  | 4.0  | 22        |
| 672 | Thiazole-Linked Covalent Organic Framework Promoting Fast Two-Electron Transfer for Lithium-Organic Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003735.   | 10.2 | 78        |
| 673 | Pioneering Iodine-125-Labeled Nanoscale Covalent Organic Frameworks for Brachytherapy. <i>Bioconjugate Chemistry</i> , 2021, 32, 755-762.  | 1.8  | 18        |
| 674 | Quantitative Description of the Lateral Growth of Two-Dimensional Covalent Organic Frameworks Reveals Self-Templation Effects. , 2021, 3, 398-405.   |      | 6         |
| 675 | Band Gap Engineering in Solvochromic 2D Covalent Organic Framework Photocatalysts for Visible Light-Driven Enhanced Solar Fuel Production from Carbon Dioxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 14122-14131.          | 4.0  | 66        |
| 676 | Covalent organic framework supported Pd(II)-catalyzed conjugate additions of arylboronic acids to $\alpha,\beta$ -unsaturated carboxylic acids. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6263.                                     | 1.7  | 7         |
| 677 | Ultrafast and Stable Proton Conduction in Polybenzimidazole Covalent Organic Frameworks via Confinement and Activation. <i>Angewandte Chemie</i> , 2021, 133, 13028-13033.   | 1.6  | 8         |
| 678 | Ultrafast and Stable Proton Conduction in Polybenzimidazole Covalent Organic Frameworks via Confinement and Activation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12918-12923.  | 7.2  | 58        |
| 679 | Macroscopic Ultralight Aerogel Monoliths of Imine-based Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13969-13977.   | 7.2  | 73        |
| 680 | Two-Dimensional Metal-Organic Frameworks and Covalent-Organic Frameworks for Electrocatalysis: Distinct Merits by the Reduced Dimension. <i>Advanced Energy Materials</i> , 2022, 12, 2003990.   | 10.2 | 78        |
| 681 | A Visible-Light-Harvesting Covalent Organic Framework Bearing Single Nickel Sites as a Highly Efficient Sulfur-Carbon Cross-Coupling Dual Catalyst. <i>Angewandte Chemie</i> , 2021, 133, 10915-10922.   | 1.6  | 17        |
| 682 | Rapid, Ambient Temperature Synthesis of Imine Covalent Organic Frameworks Catalyzed by Transition-Metal Nitrates. <i>Chemistry of Materials</i> , 2021, 33, 3394-3400.   | 3.2  | 26        |
| 683 | Covalent Organic Frameworks for Sunlight-driven Hydrogen Evolution. <i>Chemistry Letters</i> , 2021, 50, 676-686.  | 0.7  | 15        |
| 684 | Oxidase Mimetic Activity of a Metalloporphyrin-Containing Porous Organic Polymer and Its Applications for Colorimetric Detection of Both Ascorbic Acid and Glutathione. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5412-5421. | 3.2  | 58        |
| 685 | Conductive Metallophthalocyanine Framework Films with High Carrier Mobility as Efficient Chemiresistors. <i>Angewandte Chemie</i> , 2021, 133, 10901-10908.  | 1.6  | 8         |
| 686 | Recent Advances on Nanomaterials for Electrocatalytic CO <sub>2</sub> Conversion. <i>Energy &amp; Fuels</i> , 2021, 35, 7485-7510.   | 2.5  | 24        |
| 687 | Two-dimensional nanomaterials with engineered bandgap: Synthesis, properties, applications. <i>Nano Today</i> , 2021, 37, 101059.  | 6.2  | 82        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 688 | A Visible-Light Harvesting Covalent Organic Framework Bearing Single Nickel Sites as a Highly Efficient Sulfur-Carbon Cross-Coupling Dual Catalyst. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10820-10827. | 7.2  | 90        |
| 689 | Synthesis of Side-Chain-Free Hydrazone-Linked Covalent Organic Frameworks through Supercritical Carbon Dioxide Activation. <i>Organic Materials</i> , 2021, 03, 277-282.  | 1.0  | 5         |
| 690 | Covalent Framework Particles Modified with MnO <sub>2</sub> Nanosheets and Au Nanoparticles as Electrochemical Immunosensors for Human Chorionic Gonadotropin. <i>ACS Applied Nano Materials</i> , 2021, 4, 4593-4601.        | 2.4  | 28        |
| 691 | CO <sub>2</sub> -philic mixed matrix membranes based on low-molecular-weight polyethylene glycol and porous organic polymers. <i>Journal of Membrane Science</i> , 2021, 624, 119081.   | 4.1  | 26        |
| 692 | Covalent Organic Frameworks toward Diverse Photocatalytic Aerobic Oxidations. <i>Chemistry - A European Journal</i> , 2021, 27, 7738-7744.  | 1.7  | 22        |
| 693 | Porous organic frameworks for carbon dioxide capture and storage. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105090.   | 3.3  | 23        |
| 694 | Bifunctional Covalent Organic Framework-Derived Electrocatalysts with Modulated <i>p</i> -Band Centers for Rechargeable Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101727.                           | 7.8  | 76        |
| 695 | Covalent Organic Frameworks: A Molecular Platform for Designer Polymeric Architectures and Functional Materials. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 1215-1231.                                      | 2.0  | 32        |
| 696 | Recent progress in conjugated microporous polymers for clean energy: Synthesis, modification, computer simulations, and applications. <i>Progress in Polymer Science</i> , 2021, 115, 101374.                                 | 11.8 | 117       |
| 697 | Macroscopic Ultralight Aerogel Monoliths of Imine-based Covalent Organic Frameworks. <i>Angewandte Chemie</i> , 2021, 133, 14088-14096.   | 1.6  | 5         |
| 698 | Structural Characteristics and Environmental Applications of Covalent Organic Frameworks. <i>Energies</i> , 2021, 14, 2267.   | 1.6  | 24        |
| 699 | Conductive Metallophthalocyanine Framework Films with High Carrier Mobility as Efficient Chemiresistors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10806-10813.  | 7.2  | 63        |
| 700 | A Tailored Heptazine-Based Porous Polymeric Network as a Versatile Heterogeneous (Photo)catalyst. <i>Chemistry - A European Journal</i> , 2021, 27, 10649-10656.  | 1.7  | 9         |
| 701 | Construction of Interlayer Conjugated Links in 2D Covalent Organic Frameworks via Topological Polymerization. <i>Journal of the American Chemical Society</i> , 2021, 143, 7897-7902.   | 6.6  | 58        |
| 702 | Isorecticular Crystallization of Highly Porous Cubic Covalent Organic Cage Compounds**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17455-17463.   | 7.2  | 34        |
| 703 | Nanostructured covalent organic frameworks with elevated crystallization for (electro)photocatalysis and energy storage devices. <i>Journal of Materials Science</i> , 2021, 56, 13875-13924.                                 | 1.7  | 8         |
| 704 | Isorektikuläre Kristallisation von hochporösen kubischen kovalentorganischen Käfigverbindungen**. <i>Angewandte Chemie</i> , 2021, 133, 17595-17604.  | 1.6  | 7         |
| 706 | Recent Advances in Covalent Organic Frameworks for Heavy Metal Removal Applications. <i>Energies</i> , 2021, 14, 3197.  | 1.6  | 17        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 707 | Progress in neutron techniques: towards improved polymer electrolyte membranes for energy devices. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 264005.  | 0.7  | 3         |
| 708 | 2D Covalent Organic Framework Electrodes for Supercapacitors and Rechargeable Metal-Ion Batteries. <i>Advanced Energy Materials</i> , 2022, 12, 2100177.   | 10.2 | 87        |
| 709 | All sp <sup>2</sup> carbon covalent organic frameworks. <i>Trends in Chemistry</i> , 2021, 3, 431-444.   | 4.4  | 71        |
| 710 | Recent progress in covalent organic frameworks as light-emitting materials. <i>Materials Today Energy</i> , 2021, 20, 100635.  | 2.5  | 77        |
| 711 | Recent advances in porous nanostructures for cancer theranostics. <i>Nano Today</i> , 2021, 38, 101146.  | 6.2  | 24        |
| 712 | Mechanically Constrained Catalytic Mn(CO) <sub>3</sub> Br Single Sites in a Two-Dimensional Covalent Organic Framework for CO <sub>2</sub> Electroreduction in H <sub>2</sub> O. <i>ACS Catalysis</i> , 2021, 11, 7210-7222. | 5.5  | 43        |
| 713 | Palladium Nanoparticles on Covalent Organic Framework Supports as Catalysts for Suzuki-Miyaura Cross-Coupling Reactions. <i>ACS Applied Nano Materials</i> , 2021, 4, 6239-6249.   | 2.4  | 29        |
| 714 | Porous Covalent Organic Polymers for Efficient Fluorocarbon-Based Adsorption Cooling. <i>Angewandte Chemie</i> , 2021, 133, 18185-18191.   | 1.6  | 0         |
| 715 | Impact of Structural Defects on the Elastic Properties of Two-Dimensional Covalent Organic Frameworks (2D COFs) under Tensile Stress. <i>Chemistry of Materials</i> , 2021, 33, 4529-4540.                                   | 3.2  | 30        |
| 716 | A Dual-Function Highly Crystalline Covalent Organic Framework for HCl Sensing and Visible-Light Heterogeneous Photocatalysis. <i>Macromolecules</i> , 2021, 54, 6595-6604.   | 2.2  | 34        |
| 717 | Prevailing conjugated porous polymers for electrochemical energy storage and conversion: Lithium-ion batteries, supercapacitors and water-splitting. <i>Coordination Chemistry Reviews</i> , 2021, 436, 213782.              | 9.5  | 52        |
| 718 | An In Situ Film-to-Film Transformation Approach toward Highly Crystalline Covalent Organic Framework Films. <i>CCS Chemistry</i> , 2022, 4, 1519-1525.   | 4.6  | 25        |
| 719 | Large inorganic monolithic nanomaterials with a significant rigid hierarchical pore structure. <i>Microporous and Mesoporous Materials</i> , 2021, 320, 111099.  | 2.2  | 1         |
| 720 | Hierarchical Assembly of Two-Dimensional Polymers into Colloidosomes and Microcapsules. <i>ACS Macro Letters</i> , 2021, 10, 933-939.  | 2.3  | 9         |
| 721 | Covalent organic frameworks: Design principles, synthetic strategies, and diverse applications. <i>Giant</i> , 2021, 6, 100054.  | 2.5  | 142       |
| 722 | Porous Covalent Organic Polymers for Efficient Fluorocarbon-Based Adsorption Cooling. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18037-18043.  | 7.2  | 16        |
| 723 | Strategies for Improving the Catalytic Performance of 2D Covalent Organic Frameworks for Hydrogen Evolution and Oxygen Evolution Reactions. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1851-1863.                       | 1.7  | 12        |
| 724 | Have Covalent Organic Framework Films Revealed Their Full Potential?. <i>Crystals</i> , 2021, 11, 762.   | 1.0  | 2         |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 725 | Porphyrin-based covalent organic framework as bioplatform for detection of vascular endothelial growth factor 165 through fluorescence resonance energy transfer. <i>Talanta</i> , 2021, 228, 122060.  | 2.9  | 30        |
| 726 | Advanced Applications and Challenges of Electropolymerized Conjugated Microporous Polymer Films. <i>Advanced Functional Materials</i> , 2021, 31, 2101861.   | 7.8  | 41        |
| 727 | Manifestation of an Enhanced Photoreduction of CO <sub>2</sub> to CO over the <i>In Situ</i> Synthesized rGO-Covalent Organic Framework under Visible Light Irradiation. <i>ACS Applied Energy Materials</i> , 2021, 4, 6005-6014.                       | 2.5  | 30        |
| 728 | Designing Intrinsic Topological Insulators in Two-Dimensional Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6934-6940.  | 2.1  | 6         |
| 729 | Engineering Covalent Organic Framework Membranes. <i>Accounts of Materials Research</i> , 2021, 2, 630-643.  | 5.9  | 64        |
| 730 | Selective membranes in water and wastewater treatment: Role of advanced materials. <i>Materials Today</i> , 2021, 50, 516-532.   | 8.3  | 106       |
| 731 | A 3D Anionic Metal Covalent Organic Framework with soc Topology Built from an Octahedral Ti IV Complex for Photocatalytic Reactions. <i>Angewandte Chemie</i> , 2021, 133, 18025-18030.  | 1.6  | 8         |
| 732 | Covalent organic frameworks: From materials design to electrochemical energy storage applications. <i>Nano Select</i> , 2022, 3, 320-347.  | 1.9  | 21        |
| 733 | Metal Oxide Catalysts for the Synthesis of Covalent Organic Frameworks and One-Step Preparation of Covalent Organic Framework-Based Composites. <i>Chemistry of Materials</i> , 2021, 33, 6158-6165.   | 3.2  | 25        |
| 734 | Fabrication of Two-Dimensional Functional Covalent Organic Frameworks <i>via</i> the Thiol-Ene <i>Click</i> -Reaction as Lubricant Additives for Antiwear and Friction Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 36213-36220. | 4.0  | 39        |
| 735 | Ketoenamine Covalent Organic Framework Coating for Efficient Solid-Phase Microextraction of Trace Organochlorine Pesticides. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 8008-8016.  | 2.4  | 36        |
| 736 | Editing Light Emission with Stable Crystalline Covalent Organic Frameworks via Wall Surface Perturbation. <i>Angewandte Chemie</i> , 2021, 133, 19568-19576.   | 1.6  | 0         |
| 737 | Covalent organic framework stabilized CdS nanoparticles as efficient visible-light-driven photocatalysts for selective oxidation of aromatic alcohols. <i>Chinese Chemical Letters</i> , 2021, 32, 2207-2211.  | 4.8  | 39        |
| 738 | Imparting multi-functionality to covalent organic framework nanoparticles by the dual-ligand assistant encapsulation strategy. <i>Nature Communications</i> , 2021, 12, 4556.  | 5.8  | 62        |
| 739 | Editing Light Emission with Stable Crystalline Covalent Organic Frameworks via Wall Surface Perturbation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19419-19427.  | 7.2  | 60        |
| 740 | A 3D Anionic Metal Covalent Organic Framework with soc Topology Built from an Octahedral Ti <sup>IV</sup> Complex for Photocatalytic Reactions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17881-17886.                                | 7.2  | 61        |
| 741 | Rational Design and Application of Covalent Organic Frameworks for Solar Fuel Production. <i>Molecules</i> , 2021, 26, 4181.   | 1.7  | 8         |
| 742 | Hydrophilicity gradient in covalent organic frameworks for membrane distillation. <i>Nature Materials</i> , 2021, 20, 1551-1558.   | 13.3 | 195       |



| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 743 | Ethylene/ethane separation in a stable hydrogen-bonded organic framework through a gating mechanism. <i>Nature Chemistry</i> , 2021, 13, 933-939.  | 6.6  | 235       |
| 744 | <sc>Imine-based</sc> covalent organic framework as photocatalyst for <sc>visible-light-induced</sc> atom transfer radical polymerization. <i>Journal of Polymer Science</i> , 2021, 59, 2036-2044.                           | 2.0  | 6         |
| 745 | Porphyrin- and phthalocyanine-based porous organic polymers: From synthesis to application. <i>Coordination Chemistry Reviews</i> , 2021, 439, 213875.   | 9.5  | 147       |
| 746 | Controllable Synthesis and Performance Modulation of 2D Covalent Organic Frameworks. <i>Small</i> , 2021, 17, e2100918.  | 5.2  | 27        |
| 747 | Filling COFs with bimetallic nanoclusters for CO <sub>2</sub> -to-alcohols conversion with H <sub>2</sub> O oxidation. <i>Applied Catalysis B: Environmental</i> , 2021, 288, 120001.  | 10.8 | 56        |
| 748 | Chiral covalent organic framework-monolith as stationary phase for high-performance liquid chromatographic enantioseparation of selected amino acids. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 5255-5262.  | 1.9  | 12        |
| 749 | Rational Design of Single-Atom Site Electrocatalysts: From Theoretical Understandings to Practical Applications. <i>Advanced Materials</i> , 2021, 33, e2008151.   | 11.1 | 175       |
| 750 | Effective Photocatalytic Hydrogen Evolution Using Covalent Triazine Framework-Derived Carbon Nitride Nanofiber Containing Carbon Vacancies for Visible-Light-Driven. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7222. | 1.3  | 2         |
| 751 | Heating-driven assembly of covalent organic framework nanosheets for gas separation. <i>Journal of Membrane Science</i> , 2021, 632, 119326.   | 4.1  | 30        |
| 752 | Progress and Perspectives on Covalent Organic Frameworks (COFs) and Composites for Various Energy Applications. <i>Chemistry - A European Journal</i> , 2021, 27, 13669-13698.   | 1.7  | 16        |
| 753 | Removal of heavy metals by covalent organic frameworks (COFs): A review on its mechanism and adsorption properties. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105687.                                  | 3.3  | 114       |
| 754 | Synthesis of Boroxine and Dioxaborole Covalent Organic Frameworks via Transesterification and Metathesis of Pinacol Boronates. <i>Journal of the American Chemical Society</i> , 2021, 143, 13274-13280.                     | 6.6  | 17        |
| 755 | Covalent Organic Framework Membranes for Efficient Chemicals Separation. <i>Small Structures</i> , 2021, 2, 2100061.   | 6.9  | 48        |
| 756 | Chiral covalent organic framework core-shell composite CTpBD@SiO <sub>2</sub> used as stationary phase for HPLC enantioseparation. <i>Mikrochimica Acta</i> , 2021, 188, 292.  | 2.5  | 27        |
| 757 | Hotpots and trends of covalent organic frameworks (COFs) in the environmental and energy field: Bibliometric analysis. <i>Science of the Total Environment</i> , 2021, 783, 146838.  | 3.9  | 42        |
| 758 | Development of Functional Materials via Polymer Encapsulation into Metal Organic Frameworks. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 2139-2148.   | 2.0  | 26        |
| 759 | Covalent organic framework-based materials: Synthesis, modification, and application in environmental remediation. <i>Coordination Chemistry Reviews</i> , 2021, 441, 213989.  | 9.5  | 91        |
| 760 | Grotthuss Proton-Conductive Covalent Organic Frameworks for Efficient Proton Pseudocapacitors. <i>Angewandte Chemie</i> , 2021, 133, 22009-22016.  | 1.6  | 20        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 761 | Synergistic Catalysis of Ionic Liquid-Decorated Covalent Organic Frameworks with Polyoxometalates for CO <sub>2</sub> Cycloaddition Reaction under Mild Conditions. <i>Langmuir</i> , 2021, 37, 10330-10339.                    | 1.6  | 31        |
| 762 | Metalloporphyrin and Ionic Liquid-Functionalized Covalent Organic Frameworks for Catalytic CO <sub>2</sub> Cycloaddition via Visible-Light-Induced Photothermal Conversion. <i>Inorganic Chemistry</i> , 2021, 60, 12591-12601. | 1.9  | 43        |
| 763 | Photocatalytic CO <sub>2</sub> conversion over single-atom MoN <sub>2</sub> sites of covalent organic framework. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120146.   | 10.8 | 130       |
| 764 | Metal cyamelurates: structural diversity caused by kinetic and thermodynamic controls. <i>Structural Chemistry</i> , 2021, 32, 1745-1754.   | 1.0  | 4         |
| 765 | Grotthuss Proton-Conductive Covalent Organic Frameworks for Efficient Proton Pseudocapacitors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21838-21845.  | 7.2  | 100       |
| 766 | Membrane Materials for Selective Ion Separations at the Water-Energy Nexus. <i>Advanced Materials</i> , 2021, 33, e2101312.   | 11.1 | 100       |
| 767 | An Aqueous Mg <sup>2+</sup> -Based Dual-Ion Battery with High Power Density. <i>Advanced Functional Materials</i> , 2021, 31, 2107523.  | 7.8  | 30        |
| 768 | A Highly Conductive All-Carbon Linked 3D Covalent Organic Framework Film. <i>Small</i> , 2021, 17, e2103152.  | 5.2  | 23        |
| 769 | Emerging porous framework material-based nanofluidic membranes toward ultimate ion separation. <i>Matter</i> , 2021, 4, 2810-2830.  | 5.0  | 27        |
| 770 | A Novel Salen-based Porous Framework Polymer as Durable Anode for Lithium-Ion Storage. <i>ChemSusChem</i> , 2021, 14, 4601-4608.  | 3.6  | 4         |
| 771 | Covalent organic frameworks: Advances in synthesis and applications. <i>Materials Today Communications</i> , 2021, 28, 102612.  | 0.9  | 18        |
| 772 | Covalent Organic Frameworks (COFs) as Proton Conductors. <i>Advanced Energy Materials</i> , 2021, 11, 2102300.  | 10.2 | 106       |
| 773 | Palladium Nanoparticles Anchored on COFs Prepared by Simple Calcination for Phenol Hydrogenation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 13523-13533.   | 1.8  | 11        |
| 774 | De Novo Fabrication of Large-Area and Self-Standing Covalent Organic Framework Films for Efficient Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 44806-44813.   | 4.0  | 20        |
| 775 | The tripartite role of 2D covalent organic frameworks in graphene-based organic solvent nanofiltration membranes. <i>Matter</i> , 2021, 4, 2953-2969.   | 5.0  | 24        |
| 776 | Decoration of Active Sites in Covalent Organic Framework: An Effective Strategy of Building Efficient Photocatalysis for CO <sub>2</sub> Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13376-13384.    | 3.2  | 34        |
| 777 | Flexible, Mechanically Stable, Porous Self-Standing Microfiber Network Membranes of Covalent Organic Frameworks: Preparation Method and Characterization. <i>Advanced Functional Materials</i> , 2021, 31, 2106507.             | 7.8  | 34        |
| 778 | Covalent Organic Frameworks for Simultaneous CO <sub>2</sub> Capture and Selective Catalytic Transformation. <i>Catalysts</i> , 2021, 11, 1133.   | 1.6  | 16        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 779 | Adsorption of light gases in covalent organic frameworks: comparison of classical density functional theory and grand canonical Monte Carlo simulations. <i>Microporous and Mesoporous Materials</i> , 2021, 324, 111263.                 | 2.2  | 13        |
| 780 | Enhancement of Electrocatalytic CO <sub>2</sub> Reduction to Methane by CoTMPyP when Hosted in a 3D Covalent Graphene Framework. <i>ACS Applied Energy Materials</i> , 2021, 4, 10033-10041.  | 2.5  | 9         |
| 781 | Ultrathin Covalent Organic Framework Membranes via a Multi-Interfacial Engineering Strategy for Gas Separation. <i>Advanced Materials</i> , 2022, 34, e2104946.   | 11.1 | 82        |
| 782 | Mixed matrix anion exchange membrane containing covalent organic frameworks: Ultra-low IEC but medium conductivity. <i>Applied Surface Science</i> , 2021, 560, 149909.   | 3.1  | 14        |
| 783 | Ligand Functionalized Iron-Based Metal-Organic Frameworks for Efficient Electrocatalytic Oxygen Evolution. <i>ChemCatChem</i> , 2021, 13, 4976-4984.  | 1.8  | 10        |
| 784 | Atomic-level engineering of anisotropically nanoporous graphyne membranes for efficient water desalination. <i>Applied Surface Science</i> , 2021, 559, 149977.   | 3.1  | 8         |
| 785 | Covalent Organic Frameworks: New Materials Platform for Photocatalytic Degradation of Aqueous Pollutants. <i>Materials</i> , 2021, 14, 5600.  | 1.3  | 23        |
| 786 | Recent progress and strategies for precise framework structure-enabled drug delivery systems. <i>Materials Today Sustainability</i> , 2021, 13, 100065.   | 1.9  | 5         |
| 787 | ZnIn <sub>2</sub> S <sub>4</sub> -Based Photocatalysts for Energy and Environmental Applications. <i>Small Methods</i> , 2021, 5, e2100887.   | 4.6  | 153       |
| 788 | Conjugation-regulating synthesis of high photosensitizing activity porphyrin-based covalent organic frameworks for photodynamic inactivation of bacteria. <i>Talanta</i> , 2021, 233, 122536.   | 2.9  | 14        |
| 789 | Dynamic nanoassemblies of nanomaterials for cancer photomedicine. <i>Advanced Drug Delivery Reviews</i> , 2021, 177, 113954.  | 6.6  | 35        |
| 790 | Ordered lithium ion channels of covalent organic frameworks with lithiophilic groups enable uniform and efficient Li plating/stripping. <i>Journal of Energy Chemistry</i> , 2021, 61, 135-140.   | 7.1  | 13        |
| 791 | Designs and applications of multi-functional covalent organic frameworks in rechargeable batteries. <i>Energy Storage Materials</i> , 2021, 41, 354-379.  | 9.5  | 52        |
| 792 | Covalent organic frameworks: Design, synthesis, and performance for photocatalytic applications. <i>Nano Today</i> , 2021, 40, 101247.  | 6.2  | 57        |
| 793 | The selective sieving role of nanosheets in the development of advanced membranes for water treatment: Comparison and performance enhancement of different nanosheets. <i>Separation and Purification Technology</i> , 2021, 273, 118996. | 3.9  | 12        |
| 794 | Insight into the syntheses, performances and mechanisms of organically modified adsorbents for mercury ion sensing and removal. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105833.                                   | 3.3  | 6         |
| 795 | Recent trends in transition metal diselenides (XSe <sub>2</sub> : X= Ni, Mn, Co) and their composites for high energy faradic supercapacitors. <i>Journal of Energy Storage</i> , 2021, 43, 103176.                                       | 3.9  | 57        |
| 796 | Fabricating compact covalent organic framework membranes with superior performance in dye separation. <i>Journal of Membrane Science</i> , 2021, 637, 119667.   | 4.1  | 26        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 797 | In-situ fabrication of a chlorine-functionalized covalent organic framework coating for solid-phase microextraction of polychlorinated biphenyls in surface water. <i>Analytica Chimica Acta</i> , 2021, 1186, 339120.                                | 2.6  | 21        |
| 798 | Hybridization of Schiff base network and amino functionalized Cu based MOF to enhance photocatalytic performance. <i>Journal of Solid State Chemistry</i> , 2021, 303, 122549.  | 1.4  | 14        |
| 799 | High crystalline magnetic covalent organic framework with three-dimensional grapevine structure for ultrasensitive extraction of nitro-polycyclic aromatic hydrocarbons in food and environmental samples. <i>Food Chemistry</i> , 2021, 361, 130018. | 4.2  | 19        |
| 800 | Effect of linkages on photocatalytic H <sub>2</sub> evolution over covalent organic frameworks. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 421, 113546.   | 2.0  | 20        |
| 801 | Efficient and robust dual modes of fluorescence sensing and smartphone readout for the detection of pyrethroids using artificial receptors bound inside a covalent organic framework. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113582.       | 5.3  | 24        |
| 802 | Covalent organic frameworks-based smart materials for mitigation of pharmaceutical pollutants from aqueous solution. <i>Chemosphere</i> , 2022, 286, 131710.  | 4.2  | 40        |
| 803 | Covalent organic framework DQTP modified pencil graphite electrode for simultaneous determination of bisphenol A and bisphenol S. <i>Talanta</i> , 2022, 236, 122859.   | 2.9  | 41        |
| 804 | Peroxydisulfate bridged photocatalysis of covalent triazine framework for carbamazepine degradation. <i>Chemical Engineering Journal</i> , 2022, 427, 131613.   | 6.6  | 18        |
| 805 | Nanometer scale porous structures. , 2021, , 53-76.   |      | 0         |
| 806 | Covalent organic frameworks for optical applications. <i>Aggregate</i> , 2021, 2, e24.  | 5.2  | 41        |
| 807 | Fused Aromatic Network with Exceptionally High Carrier Mobility. <i>Advanced Materials</i> , 2021, 33, e2004707.  | 11.1 | 16        |
| 808 | Fabrication of 2D/2D COF/SnNb <sub>2</sub> O <sub>6</sub> nanosheets and their enhanced solar hydrogen production. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1686-1694.   | 3.0  | 8         |
| 809 | COF-confined catalysts: from nanoparticles and nanoclusters to single atoms. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24148-24174.  | 5.2  | 37        |
| 810 | Presenting porous "organic" polymers as next-generation invigorating materials for nanoreactors. <i>Chemical Communications</i> , 2021, 57, 8550-8567.  | 2.2  | 37        |
| 811 | Rational design of bifunctional conjugated microporous polymers. <i>Nanoscale Advances</i> , 2021, 3, 4891-4906.  | 2.2  | 23        |
| 812 | Recent progress in emerging metal and covalent organic frameworks for electrochemical and functional capacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8832-8869.  | 5.2  | 37        |
| 813 | MOF-in-COF molecular sieving membrane for selective hydrogen separation. <i>Nature Communications</i> , 2021, 12, 38.   | 5.8  | 212       |
| 814 | Adsorption Properties of Hydrated Cr <sup>3+</sup> Ions on Schiff-base Covalent Organic Frameworks: A DFT Study. <i>Chemistry - an Asian Journal</i> , 2020, 15, 1140-1146.   | 1.7  | 20        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 815 | Covalent Organic Frameworks for Catalysis. EnergyChem, 2020, 2, 100035.   | 10.1 | 129       |
| 816 | Metal-free electrocatalysts for nitrogen reduction reaction. EnergyChem, 2020, 2, 100040.   | 10.1 | 34        |
| 817 | Novel One-Dimensional Covalent Organic Framework as a H <sup>+</sup> Fluorescent Sensor in Acidic Aqueous Solution. ACS Applied Materials & Interfaces, 2021, 13, 1145-1151.  | 4.0  | 58        |
| 818 | Single Metal Site and Versatile Transfer Channel Merged into Covalent Organic Frameworks Facilitate High-Performance Li-CO <sub>2</sub> Batteries. ACS Central Science, 2021, 7, 175-182.   | 5.3  | 69        |
| 819 | 2D covalent organic framework thin films via interfacial self-polycondensation of an A <sub>2</sub> B <sub>2</sub> type monomer. Chemical Communications, 2020, 56, 3253-3256.  | 2.2  | 43        |
| 820 | Synergetic effect of H <sup>+</sup> adsorption and ethylene functional groups of covalent organic frameworks on the CO <sub>2</sub> photoreduction in aqueous solution. Chemical Communications, 2020, 56, 7261-7264.   | 2.2  | 19        |
| 821 | Screen printing directed synthesis of covalent organic framework membranes with water sieving property. Chemical Communications, 2020, 56, 6519-6522.   | 2.2  | 23        |
| 822 | Progress in Synthesis of Covalent Organic Frameworks and Its Application. Advances in Material Chemistry, 2019, 07, 44-52.  | 0.0  | 1         |
| 823 | A Study on Constitutional Isomerism in Covalent Organic Frameworks: Controllable Synthesis, Transformation, and Distinct Difference in Properties. CCS Chemistry, 2020, 2, 139-145.   | 4.6  | 59        |
| 824 | Application of the Humic Substances and Ammonia in Order to Minimize Losses on Nitrogen Fertilization. Agricultural Sciences, 2020, 11, 211-222.  | 0.2  | 1         |
| 825 | A porous carbon layer wrapped Co <sub>3</sub> Fe <sub>7</sub> alloy derived from a bimetallic conjugated microporous polymer as a trifunctional electrocatalyst for rechargeable Zn-air batteries and self-powered overall water splitting. Sustainable Energy and Fuels, 2021, 5, 6085-6096. | 2.5  | 4         |
| 826 | Ultrafine platinum nanoparticles confined in a covalent organic framework for enhanced enzyme-mimetic and electrocatalytic performances. Nanoscale, 2021, 13, 18665-18676.  | 2.8  | 13        |
| 827 | A metal-free covalent organic framework as a photocatalyst for CO <sub>2</sub> reduction at low CO <sub>2</sub> concentration in a gas–solid system. Journal of Materials Chemistry A, 2021, 9, 24895-24902.  | 5.2  | 33        |
| 828 | Wide Voltage Aqueous Asymmetric Supercapacitors: Advances, Strategies, and Challenges. Advanced Functional Materials, 2022, 32, 2108107.  | 7.8  | 90        |
| 829 | Stacked Reticular Frame Boosted Circularly Polarized Luminescence of Chiral Covalent Organic Frameworks. Angewandte Chemie - International Edition, 2022, 61, .   | 7.2  | 32        |
| 830 | Stacked Reticular Frame Boosted Circularly Polarized Luminescence of Chiral Covalent Organic Frameworks. Angewandte Chemie, 0, , .  | 1.6  | 10        |
| 831 | Charge Storage Mechanism of an Anthraquinone-Derived Porous Covalent Organic Framework with Multiredox Sites as Anode Material for Lithium-Ion Battery. ACS Applied Energy Materials, 2021, 4, 11377-11385.   | 2.5  | 31        |
| 832 | Recent advances and perspectives of metal/covalent-organic frameworks in metal-air batteries. Journal of Energy Chemistry, 2021, 63, 113-129.   | 7.1  | 25        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 833 | Design and synthesis of noble metal-based electrocatalysts using metal-organic frameworks and derivatives. <i>Materials Today Nano</i> , 2022, 17, 100144.   | 2.3 | 17        |
| 834 | Electronically Conjugated Multifunctional Covalent Triazine Framework for Unprecedented CO <sub>2</sub> Selectivity and High Power Flexible Supercapacitor. <i>Advanced Functional Materials</i> , 2022, 32, 2107442.  | 7.8 | 24        |
| 835 | Functional Hybrid Micro/Nanoentities Promote Agro-Food Safety Inspection. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 12402-12417.   | 2.4 | 18        |
| 836 | Stable Bimetallic Polyphthalocyanine Covalent Organic Frameworks as Superior Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2021, 143, 18052-18060.   | 6.6 | 127       |
| 837 | An overview on covalent organic frameworks: synthetic reactions and miscellaneous applications. <i>Materials Today Chemistry</i> , 2021, 22, 100573.   | 1.7 | 10        |
| 838 | Covalent Organic Framework (COF)-Based Hybrids for Electrocatalysis: Recent Advances and Perspectives. <i>Small Methods</i> , 2021, 5, e2100945.   | 4.6 | 36        |
| 839 | Facile fabrication of melamine sponge@covalent organic framework composite for enhanced degradation of tetracycline under visible light. <i>Chemical Engineering Journal</i> , 2022, 430, 132817.  | 6.6 | 46        |
| 840 | Light-emitting materials generated at the liquid-liquid interface. , 2020, , 131-159.  |     | 0         |
| 841 | Nanoscale covalent organic frameworks: from controlled synthesis to cancer therapy. <i>Chemical Communications</i> , 2021, 57, 12417-12435.  | 2.2 | 18        |
| 842 | Computational Design and Templated Synthesis of Porous Polyether Frameworks with N and O Adsorption Sites for Efficiently Chelating Heavy Metal Ions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 16267-16277.                                | 1.8 | 6         |
| 843 | Covalent-Organic Framework Composites: A Review Report on Synthesis Methods. <i>ChemistrySelect</i> , 2021, 6, 11201-11223.  | 0.7 | 13        |
| 844 | Direct and indirect excitons in two-dimensional covalent organic frameworks. <i>Chinese Journal of Chemical Physics</i> , 2020, 33, 569-577.   | 0.6 | 2         |
| 845 | A review on 2D porous organic polymers for membrane-based separations: Processing and engineering of transport channels. , 2021, 1, 100014.  |     | 19        |
| 846 | Chelating Materials for the Removal of Heavy Metals from Water. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , 379-417.  | 0.3 | 0         |
| 847 | Solvothermal synthesis and enhanced electrochromic properties of covalent organic framework/functionalized carbon nanotubes composites electrochromic materials with anthraquinonoid active unit. <i>Solar Energy Materials and Solar Cells</i> , 2022, 235, 111489. | 3.0 | 10        |
| 848 | Applications of covalent organic framework-based nanomaterials as superior adsorbents in wastewater treatment. , 2022, , 127-159.  |     | 0         |
| 849 | Effective separation of Î±-asarone and Î²-asarone in TCM by covalent organic framework modified magnetic solid phase extraction. <i>Microchemical Journal</i> , 2022, 175, 107015.   | 2.3 | 4         |
| 850 | Advanced Ordered Nanoporous Materials. <i>Engineering Materials</i> , 2022, , 259-317.   | 0.3 | 2         |



| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 851 | One-dimensional covalent organic frameworkâ€”Carbon nanotube heterostructures for efficient capacitive energy storage. <i>Applied Physics Letters</i> , 2021, 119, .  | 1.5  | 9         |
| 852 | Synthesis of Mesoporous Materials. <i>Engineering Materials</i> , 2022, , 113-173.  | 0.3  | 0         |
| 853 | Novel solidâ€”phase microextraction fiber coatings: A review. <i>Journal of Separation Science</i> , 2022, 45, 282-304.   | 1.3  | 40        |
| 854 | Two-Dimensional Polymers and Polymerizations. <i>Chemical Reviews</i> , 2022, 122, 442-564.   | 23.0 | 128       |
| 855 | Synthesizing Highly Crystalline Self-Standing Covalent Organic Framework Films through a Homogeneousâ€”Floatingâ€”Concentrating Strategy for Molecular Separation. <i>Chemistry of Materials</i> , 2021, 33, 9413-9424. | 3.2  | 19        |
| 856 | Hydrazone connected stable luminescent covalentâ€”organic polymer for ultrafast detection of nitro-explosives. <i>RSC Advances</i> , 2021, 11, 39270-39277.   | 1.7  | 9         |
| 857 | Synthesis methods of microporous organic polymeric adsorbents: a review. <i>Polymer Chemistry</i> , 2021, 12, 6962-6997.  | 1.9  | 11        |
| 858 | Emerging Covalent Organic Framework and Linear Polymer (COFâ€”LP) Composites: Synthetic Approaches and Applications. <i>RSC Smart Materials</i> , 2021, , 344-374.  | 0.1  | 1         |
| 859 | Covalent organic frameworks as multifunctional materials for chemical detection. <i>Chemical Society Reviews</i> , 2021, 50, 13498-13558.   | 18.7 | 114       |
| 860 | Design of solvatomorphic structures based on a polyboronated tetraphenyladamantane molecular tecton. <i>CrystEngComm</i> , 2021, 23, 8169-8182.   | 1.3  | 2         |
| 861 | Solvothermal depolymerization and recrystallization of imine-linked two-dimensional covalent organic frameworks. <i>Chemical Science</i> , 2021, 12, 16014-16022.   | 3.7  | 14        |
| 862 | Covalent Organic Frameworks. <i>RSC Smart Materials</i> , 2021, , 226-343.  | 0.1  | 0         |
| 864 | Covalent organic frameworks: Design and applications in electrochemical energy storage devices. <i>Informaâ””MateriÃ¡ly</i> , 2022, 4, .  | 8.5  | 31        |
| 865 | Chemistry of magnetic covalent organic frameworks (MagCOFs): from synthesis to separation applications. <i>Materials Advances</i> , 2022, 3, 1432-1458.   | 2.6  | 9         |
| 866 | Covalent organic frameworks for environmental analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 147, 116516.   | 5.8  | 45        |
| 867 | Charged nanochannels endow COF membrane with weakly concentration-dependent methanol permeability. <i>Journal of Membrane Science</i> , 2022, 645, 120186.  | 4.1  | 10        |
| 868 | First-principles calculations of molecular adsorption on the surface of two-dimensional BCOH. <i>Chemical Physics</i> , 2022, 555, 111442.  | 0.9  | 1         |
| 869 | Adsorptive removal of organic dyes via porous materials for wastewater treatment in recent decades: A review on species, mechanisms and perspectives. <i>Chemosphere</i> , 2022, 293, 133464.                           | 4.2  | 146       |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 870 | Rational design and preparation of covalent organic frameworks and their functional mechanism analysis for lithium-ion and lithium sulfur/selenium cells. <i>Energy Storage Materials</i> , 2022, 46, 29-67.   | 9.5  | 12        |
| 871 | Engineering linkage as functional moiety into irreversible thiourea-linked covalent organic framework for ultrafast adsorption of Hg(II). <i>Journal of Hazardous Materials</i> , 2022, 427, 128156.   | 6.5  | 26        |
| 872 | Emerging new-generation covalent organic frameworks composites as green catalysts: design, synthesis and solar to fuel production. <i>Chemical Engineering Journal</i> , 2022, 433, 134594.  | 6.6  | 16        |
| 873 | 2D Conjugated Covalent Organic Frameworks: Defined Synthesis and Tailor-Made Functions. <i>Accounts of Chemical Research</i> , 2022, 55, 795-808.  | 7.6  | 91        |
| 874 | Porous Assembly of $\langle \text{Metallo} \rangle \langle \text{Supramolecule} \rangle$ and Polyoxometalate via Ionic Complexation with Vapor Sorption Properties. <i>Chinese Journal of Chemistry</i> , 2022, 40, 813-818.   | 2.6  | 10        |
| 875 | Stable Thiophene-sulfur Covalent Organic Frameworks for Oxygen Reduction Reaction (ORR). <i>Chemical Research in Chinese Universities</i> , 2022, 38, 396-401.   | 1.3  | 14        |
| 876 | 2D Covalent Organic Frameworks: From Synthetic Strategies to Advanced Optical $\langle \text{Electrical} \rangle \langle \text{Magnetic} \rangle$ Functionalities. <i>Advanced Materials</i> , 2022, 34, e2102290.   | 11.1 | 96        |
| 877 | A Zn $\langle \text{ii} \rangle \langle \text{sc} \rangle$ -functionalized COF as a recyclable catalyst for the sustainable synthesis of cyclic carbonates and cyclic carbamates from atmospheric CO <sub>2</sub> . <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 1707-1722. | 1.5  | 18        |
| 878 | Advanced organic molecular sieve membranes for carbon capture: Current status, challenges and prospects. , 2022, 2, 100028.  |      | 8         |
| 879 | Highly conjugated three-dimensional covalent organic frameworks with enhanced Li-ion conductivity as solid-state electrolytes for high-performance lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8761-8771.   | 5.2  | 33        |
| 880 | There is still plenty of room for layer-by-layer assembly for constructing nanoarchitectonics-based materials and devices. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 4097-4115.   | 1.3  | 75        |
| 881 | Emerging nanomaterial incorporated membranes for gas separation and pervaporation towards energetic-efficient applications. , 2022, 2, 100015.   |      | 32        |
| 882 | Facile construction of fully sp <sup>2</sup> -carbon conjugated two-dimensional covalent organic frameworks containing benzobisthiazole units. <i>Nature Communications</i> , 2022, 13, 100.   | 5.8  | 107       |
| 883 | Supramolecular Reinforcement of a Large-Pore 2D Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2022, 144, 2468-2473.  | 6.6  | 24        |
| 884 | Divergent Properties in Structural Isomers of Triphenylamine-Based Covalent Organic Frameworks. <i>Chemistry of Materials</i> , 2022, 34, 529-536.   | 3.2  | 28        |
| 885 | Chiral derivatives of covalent organic framework TpBD (NH <sub>2</sub> ) <sub>2</sub> used as stationary phases in gas chromatography. <i>Chirality</i> , 2022, 34, 462-472.   | 1.3  | 7         |
| 886 | Ion-Selective Covalent Organic Framework Membranes as a Catalytic Polysulfide Trap to Arrest the Redox Shuttle Effect in Lithium $\langle \text{Sulfur} \rangle$ Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 4079-4090.                                     | 4.0  | 32        |
| 887 | Emerging porous organic polymers for biomedical applications. <i>Chemical Society Reviews</i> , 2022, 51, 1377-1414.   | 18.7 | 103       |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 888 | Tuning Photoexcited Charge Transfer in Imine-Linked Two-Dimensional Covalent Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1398-1405.   | 2.1  | 16        |
| 889 | A Self-Supporting Covalent Organic Framework Separator with Desolvation Effect for High Energy Density Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2022, 7, 885-896.  | 8.8  | 76        |
| 890 | Electrically conductive 2D covalent organic frameworks. <i>Trends in Chemistry</i> , 2022, 4, 128-141.   | 4.4  | 25        |
| 891 | Piperazine-Linked Covalent Organic Frameworks with High Electrical Conductivity. <i>Journal of the American Chemical Society</i> , 2022, 144, 2873-2878.   | 6.6  | 106       |
| 892 | Fine-tuned mesoporous covalent organic frameworks for highly efficient low molecular-weight proteins separation. <i>Nano Research</i> , 2022, 15, 4569-4574.   | 5.8  | 12        |
| 893 | Grafting Hollow Covalent Organic Framework Nanoparticles with Thermal-Responsive Polymers for the Controlled Release of Preservatives. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 22982-22988.                                | 4.0  | 9         |
| 894 | Stepwise Fabrication of Proton-conducting Covalent Organic Frameworks for Hydrogen Fuel Cell Applications. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 461-467.   | 1.3  | 2         |
| 895 | Constructing Stable Chromenoquinoline-Based Covalent Organic Frameworks via Intramolecular Povarov Reaction. <i>Journal of the American Chemical Society</i> , 2022, 144, 2488-2494.   | 6.6  | 57        |
| 896 | Ultrafast charge transfer dynamics in 2D covalent organic frameworks/Re-complex hybrid photocatalyst. <i>Nature Communications</i> , 2022, 13, 845.  | 5.8  | 46        |
| 897 | Multifunctional covalent organic frameworks for photocatalytic oxidative hydroxylation of arylboronic acids and fluorescence sensing for Cu <sup>2+</sup> . <i>Microporous and Mesoporous Materials</i> , 2022, 333, 111737.                 | 2.2  | 18        |
| 898 | Œ-Conjugated redox-active two-dimensional polymers as organic cathode materials. <i>Chemical Science</i> , 2022, 13, 3533-3538.  | 3.7  | 9         |
| 899 | Preparation of magnetic covalent triazine frameworks by ball milling for efficient removal of PFOS and PFOA substitutes from water. <i>Environmental Science: Nano</i> , 2022, 9, 1466-1475.   | 2.2  | 12        |
| 900 | Porous organic polymers for high-performance supercapacitors. <i>Chemical Society Reviews</i> , 2022, 51, 3181-3225.   | 18.7 | 114       |
| 902 | Direct nitrogen interception from chitin/chitosan for imidazo[1,5- <i>c</i> ]pyridines. <i>Chemical Communications</i> , 2022, 58, 6068-6071.  | 2.2  | 8         |
| 903 | Crosslinked Poly (Isatin Biphenyl Spirofluorene) Membranes for Proton Conduction Over a Wide Temperature Range from -40 to 160°C. <i>SSRN Electronic Journal</i> , 0, , .  | 0.4  | 0         |
| 905 | Ultrastable Porous Covalent Organic Framework Assembled Carbon Nanotube as a Novel Nanocontainer for Anti-Corrosion Coatings: Experimental and Computational Studies. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 19958-19974. | 4.0  | 32        |
| 906 | Metal-Organic Frameworks (MOFs)-Based Mixed Matrix Membranes (MMMs) for Gas Separation: A Review on Advanced Materials in Harsh Environmental Applications. <i>Small</i> , 2022, 18, e2107536.   | 5.2  | 64        |
| 907 | Assembling covalent organic framework membranes with superior ion exchange capacity. <i>Nature Communications</i> , 2022, 13, 1020.  | 5.8  | 79        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 908 | Molecularly Engineered Covalent Organic Frameworks for Hydrogen Peroxide Photosynthesis. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .   | 7.2  | 225       |
| 909 | Molecularly Engineered Covalent Organic Frameworks for Hydrogen Peroxide Photosynthesis. <i>Angewandte Chemie</i> , 2022, 134, .  | 1.6  | 15        |
| 910 | In situ photodeposition of platinum clusters on a covalent organic framework for photocatalytic hydrogen production. <i>Nature Communications</i> , 2022, 13, 1355.   | 5.8  | 140       |
| 911 | Configurational Selectivity Study of Two-dimensional Covalent Organic Frameworks Isomers Containing D <sub>2h</sub> and C <sub>2</sub> Building Blocks. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 639-642.                 | 1.3  | 3         |
| 912 | Acrylonitrile-Linked Covalent Organic Frameworks Enable Fast Stimulus-Responsive Fluorescence with High Quantum Yield via Fluorine Chemistry. <i>Advanced Photonics Research</i> , 0, , 2200008.  | 1.7  | 2         |
| 913 | Combination of Knoevenagel Polycondensation and Water-Assisted Dynamic Michael-Addition-Elimination for the Synthesis of Vinylene-Linked 2D Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .       | 7.2  | 23        |
| 914 | Covalent Organic Frameworks with Record Pore Apertures. <i>Journal of the American Chemical Society</i> , 2022, 144, 5145-5154.   | 6.6  | 85        |
| 915 | Growing single crystals of two-dimensional covalent organic frameworks enabled by intermediate tracing study. <i>Nature Communications</i> , 2022, 13, 1370.  | 5.8  | 60        |
| 916 | One-Dimensional Helical Aggregates Organized from Achiral Imine-Based Polymers. , 2022, 4, 715-723.   |      | 6         |
| 917 | Rational design of imine-linked three-dimensional mesoporous covalent organic frameworks with bor topology. <i>SusMat</i> , 2022, 2, 197-205.   | 7.8  | 12        |
| 918 | A Semiconducting Two-Dimensional Polymer as an Organic Electrochemical Transistor Active Layer. <i>Advanced Materials</i> , 2022, 34, e2110703.   | 11.1 | 19        |
| 919 | Acridine-Functionalized Covalent Organic Frameworks (COFs) as Photocatalysts for Metallaphotocatalytic C-N Cross-Coupling. <i>Angewandte Chemie</i> , 2022, 134, .  | 1.6  | 6         |
| 920 | Combination of Knoevenagel Polycondensation and Water-Assisted Dynamic Michael-Addition-Elimination for the Synthesis of Vinylene-Linked 2D Covalent Organic Frameworks. <i>Angewandte Chemie</i> , 2022, 134, .                              | 1.6  | 4         |
| 921 | Acridine-Functionalized Covalent Organic Frameworks (COFs) as Photocatalysts for Metallaphotocatalytic C-N Cross-Coupling. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .   | 7.2  | 77        |
| 923 | Recent advances on the nanoporous catalysts for the generation of renewable fuels. <i>Journal of Materials Research and Technology</i> , 2022, 17, 3277-3336.   | 2.6  | 16        |
| 924 | Isorecticular Series of Two-Dimensional Covalent Organic Frameworks with the kgd Topology and Controllable Micropores. <i>Journal of the American Chemical Society</i> , 2022, 144, 6475-6482.  | 6.6  | 41        |
| 925 | Syntheses of Covalent Organic Frameworks via a One-Pot Suzuki Coupling and Schiff's Base Reaction for C <sub>2</sub> H <sub>4</sub> /C <sub>3</sub> H <sub>6</sub> Separation. <i>Angewandte Chemie</i> , 2022, 134, .                        | 1.6  | 2         |
| 926 | Syntheses of Covalent Organic Frameworks via a One-Pot Suzuki Coupling and Schiff's Base Reaction for C <sub>2</sub> H <sub>4</sub> /C <sub>3</sub> H <sub>6</sub> Separation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 7.2  | 24        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 927 | Ultra-Fast Synthesis of Single-Crystalline Three-Dimensional Covalent Organic Frameworks and Their Applications in Polarized Optics. <i>Chemistry of Materials</i> , 2022, 34, 2886-2895.                               | 3.2 | 12        |
| 928 | Self-exfoliated covalent organic framework nano-mesh enabled regular charge distribution for highly stable lithium metal battery. <i>Energy Storage Materials</i> , 2022, 47, 376-385.                                  | 9.5 | 32        |
| 929 | Influence of layer slipping on adsorption of light gases in covalent organic frameworks: A combined experimental and computational study. <i>Microporous and Mesoporous Materials</i> , 2022, 336, 111796.              | 2.2 | 6         |
| 930 | Covalent organic framework with Cu-containing compounds for enhancing flame retardancy and smoke suppression effects on epoxy resin. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 156, 106900.   | 3.8 | 8         |
| 931 | Confined facilitated transport within covalent organic frameworks for propylene/propane membrane separation. <i>Chemical Engineering Journal</i> , 2022, 439, 135657.   | 6.6 | 20        |
| 932 | AIE based luminescent porous materials as cutting-edge tool for environmental monitoring: State of the art advances and perspectives. <i>Coordination Chemistry Reviews</i> , 2022, 463, 214539.                        | 9.5 | 40        |
| 933 | Controllable anisotropic thermoelectric properties in 2D covalent organic radical frameworks. <i>Applied Physics Letters</i> , 2021, 119, .   | 1.5 | 16        |
| 934 | A Nitrogen, Sulfur co-Doped Porphyrin-based Covalent Organic Framework as an Efficient Catalyst for Oxygen Reduction. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 167-172.                             | 1.3 | 11        |
| 935 | Design of porous organic polymer catalysts for transformation of carbon dioxide. <i>Green Chemical Engineering</i> , 2022, 3, 96-110.   | 3.3 | 29        |
| 936 | Recent Applications of Molecular Structures at Silicon Anode Interfaces. <i>Electrochem</i> , 2021, 2, 664-676.   | 1.7 | 0         |
| 938 | Achieving a stable COF with the combination of "flat" and "twist" large-size rigid synthons for selective gas adsorption and separation. <i>Chinese Chemical Letters</i> , 2022, 33, 3017-3020.                         | 4.8 | 9         |
| 939 | Optical absorptions of benzotrithiophene-based covalent organic frameworks evolving with amine-building blocks. , 2021, , .   |     | 0         |
| 940 | Manipulating Pore Topology and Functionality to Promote Fluorocarbon-Based Adsorption Cooling. <i>Accounts of Chemical Research</i> , 2022, 55, 649-659.  | 7.6 | 9         |
| 941 | Well-Designed Spherical Covalent Organic Frameworks with an Electron-Deficient and Conjugate System for Efficient Photocatalytic Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2021, 4, 14111-14120.        | 2.5 | 7         |
| 942 | An investigation on PANI/NENP-1 composite as a novel photocatalyst for photocatalytic dye wastewater degradation and photocatalytic hydrogen evolution. <i>Reaction Chemistry and Engineering</i> , 2022, 7, 1626-1639. | 1.9 | 8         |
| 943 | Dipole-dipole interactions of sulfone groups as a tool for self-assembly of a 2D Covalent Organic Framework derived from a non-linear diboronic acid. <i>Microporous and Mesoporous Materials</i> , 2022, 337, 111914.  | 2.2 | 2         |
| 944 | A review on the adsorption mechanism of different organic contaminants by covalent organic framework (COF) from the aquatic environment. <i>Environmental Science and Pollution Research</i> , 2022, 29, 32566-32593.   | 2.7 | 36        |
| 946 | Electrostatic attraction induces cationic covalent-organic framework to pack inorganic acid ions for promoting proton conduction. <i>Chemical Communications</i> , 2022, 58, 6084-6087.                                 | 2.2 | 5         |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 947 | Bipolar semiconductor in two-dimensional covalent organic frameworks. <i>Physical Review B</i> , 2022, 105, .  | 1.1  | 5         |
| 948 | Molecular Design of Two-Dimensional Covalent Heptazine Frameworks for Photocatalytic Overall Water Splitting under Visible Light. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3949-3956.  | 2.1  | 17        |
| 949 | Nanopores of a Covalent Organic Framework: A Customizable Vessel for Organocatalysis. <i>ACS Omega</i> , 2022, 7, 15275-15295.   | 1.6  | 14        |
| 950 | Interfacial engineering of carbon-based materials for efficient electrocatalysis: Recent advances and future. <i>EnergyChem</i> , 2022, 4, 100074.   | 10.1 | 20        |
| 951 | 2D Covalent Organic Frameworks as Photocatalysts for Solar Energy Utilization. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200108.  | 2.0  | 17        |
| 952 | Porous Dithiine-Linked Covalent Organic Framework as a Dynamic Platform for Covalent Polysulfide Anchoring in Lithium-Sulfur Battery Cathodes. <i>Journal of the American Chemical Society</i> , 2022, 144, 9101-9112.                       | 6.6  | 71        |
| 953 | A photochromic NDI-based framework for the facile hydrazine sensor. <i>Inorganic Chemistry Communication</i> , 2022, 141, 109497.  | 1.8  | 3         |
| 954 | Improved and stable triazine-based covalent organic framework for lithium storage. <i>Applied Surface Science</i> , 2022, 594, 153481.   | 3.1  | 12        |
| 955 | Palladium nanocrystals-embedded covalent organic framework as an efficient catalyst for Heck cross-coupling reaction. <i>Microporous and Mesoporous Materials</i> , 2022, 339, 111961.   | 2.2  | 10        |
| 956 | Synthesis strategies of covalent organic frameworks: An overview from nonconventional heating methods and reaction media. <i>Green Energy and Environment</i> , 2023, 8, 1596-1618.  | 4.7  | 22        |
| 957 | Effective Photocatalytic Initiation of Reactive Oxygen Species by a Photoactive Covalent Organic Framework for Oxidation Reactions. , 2022, 4, 1160-1167.  |      | 38        |
| 958 | Atomically dispersed metal catalysts confined by covalent organic frameworks and their derivatives for electrochemical energy conversion and storage. <i>Coordination Chemistry Reviews</i> , 2022, 466, 214592.                             | 9.5  | 16        |
| 959 | Structural and Electronic Modulations of Imidazolium Covalent Organic Framework-Derived Electrocatalysts for Oxygen Redox Reactions in Rechargeable Zn-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 24404-24414. | 4.0  | 12        |
| 960 | Porous organic polymers in solar cells. <i>Chemical Society Reviews</i> , 2022, 51, 4465-4483.   | 18.7 | 21        |
| 961 | Functionalized COFs with Quaternary Phosphonium Salt for Versatilely Catalyzing Chemical Transformations of CO <sub>2</sub> . <i>Chemical Research in Chinese Universities</i> , 2022, 38, 446-455.  | 1.3  | 5         |
| 962 | Structure of Two Acetylene Derivatives of Salicylic Acid. <i>Crystallography Reports</i> , 2022, 67, 364-370.  | 0.1  | 1         |
| 963 | Covalent organic frameworks for applications in lithium batteries. <i>Journal of Polymer Science</i> , 2022, 60, 2225-2238.  | 2.0  | 13        |
| 964 | Cobalt(III) corrole-tethered semiconducting graphdiyne film for efficient electrocatalysis of oxygen reduction reaction. <i>Materials Today Chemistry</i> , 2022, 25, 100932.  | 1.7  | 2         |



| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 965 | Porphyrin-based framework materials for energy conversion. , 2022, 1, e9120009.  |     | 174       |
| 966 | Boosting exciton dissociation by regulating dielectric constant in covalent organic framework for photocatalysis. Chem Catalysis, 2022, 2, 1734-1747.  | 2.9 | 33        |
| 967 | Recent Progress in the Development of MOF-Based Photocatalysts for the Photoreduction of Cr <sup>(VI)</sup> . ACS Applied Materials & Interfaces, 2022, 14, 24993-25024.                     | 4.0 | 59        |
| 968 | Ultrathin Covalent Organic Framework Anchored on Graphene For Enhanced Organic Pollutant Removal. Angewandte Chemie, 0, , .  | 1.6 | 2         |
| 969 | Ultrathin Covalent Organic Framework Anchored on Graphene for Enhanced Organic Pollutant Removal. Angewandte Chemie - International Edition, 2022, 61, .                                     | 7.2 | 25        |
| 970 | Tailoring the interaction of covalent organic framework with the polyether matrix toward high-performance solid-state lithium metal batteries. , 2022, 4, 506-516.                           |     | 25        |
| 971 | Amine-functionalized porous organic polymers for carbon dioxide capture. Materials Advances, 2022, 3, 6668-6686.   | 2.6 | 17        |
| 972 | A study of contemporary progress relating to CO <sub>2</sub> capture and fixation reactions. Materials Advances, 2022, 3, 5575-5597.   | 2.6 | 18        |
| 973 | Triphenylamine-containing imine-linked porous organic network for luminescent detection and adsorption of Cr(VI) in water. Dalton Transactions, 2022, 51, 10351-10356.                       | 1.6 | 3         |
| 974 | Band gap opening from displacive instabilities in layered covalent-organic frameworks. Journal of Materials Chemistry A, 2022, 10, 13500-13507.  | 5.2 | 7         |
| 975 | Efficacious and sustained release of an anticancer drug mitoxantrone from new covalent organic frameworks using protein corona. Chemical Science, 2022, 13, 7920-7932.                       | 3.7 | 15        |
| 976 | Building-block exchange synthesis of amino-based three-dimensional covalent organic frameworks for gas chromatographic separation of isomers. Chemical Communications, 2022, 58, 8133-8136.  | 2.2 | 12        |
| 977 | Removable urea solves the COF dilemma. Science China Chemistry, 0, , .   | 4.2 | 0         |
| 978 | Key progresses of MOE key laboratory of macromolecular synthesis and functionalization in 2021. Chinese Chemical Letters, 2023, 34, 107592.  | 4.8 | 35        |
| 979 | Suppressing the Excitonic Effect in Covalent Organic Frameworks for Metal-Free Hydrogen Generation. JACS Au, 2022, 2, 1848-1856.   | 3.6 | 9         |
| 980 | Highly crystalline vinylene-linked covalent organic frameworks enhanced solid polycarbonate electrolyte for dendrite-free solid lithium metal batteries. Nano Research, 2022, 15, 8083-8090. | 5.8 | 11        |
| 981 | Investigation of the Synthesis of Zeolitic Vanadotungstate and its Use in the Separation of Propylene/Propane at High Temperature and Humidity. Inorganic Chemistry, 0, , .                  | 1.9 | 3         |
| 983 | Charged Nanochannels in Covalent Organic Framework Membranes Enabling Efficient Ion Exclusion. ACS Nano, 2022, 16, 11781-11791.  | 7.3 | 32        |

| #    | ARTICLE  | IF   | CITATIONS |
|------|--|------|-----------|
| 984  | STRUCTURAL FEATURES OF HYDROGEN- BONDED ORGANIC FRAMEWORKS BASED ON NICKEL(II) 5,10,15,20-TETRAKIS(4- PHOSPHONATOPHENYL)PORPHYRINATE. Journal of Structural Chemistry, 2022, 63, 874-884.                    | 0.3  | 1         |
| 985  | Application of MOFs and COFs for photocatalysis in CO2 reduction, H2 generation, and environmental treatment. EnergyChem, 2022, 4, 100078.   | 10.1 | 232       |
| 986  | Giant Osmotic Energy Conversion through Vertical-Aligned Ion-Permselective Nanochannels in Covalent Organic Framework Membranes. Journal of the American Chemical Society, 2022, 144, 12400-12409.           | 6.6  | 62        |
| 987  | Ultrathin Self-Standing Covalent Organic Frameworks toward Highly Efficient Nanofluidic Osmotic Energy Generator. Advanced Functional Materials, 2022, 32, .   | 7.8  | 25        |
| 988  | Advances in the Synthesis and Bio-Applications of Pyrazine Derivatives: A Review. Polycyclic Aromatic Compounds, 2023, 43, 4512-4578.  | 1.4  | 5         |
| 989  | Fluorescence turn on amine detection in a cationic covalent organic framework. Nature Communications, 2022, 13, .  | 5.8  | 50        |
| 990  | Polydimethylsiloxane based membranes for biofuels pervaporation. Separation and Purification Technology, 2022, 298, 121612.  | 3.9  | 20        |
| 991  | Large freestanding 2D covalent organic framework nanofilms exhibiting high strength and stiffness. Materials Today Chemistry, 2022, 26, 101007.  | 1.7  | 7         |
| 992  | Dynamic covalent chemistry concept toward preparing crystalline covalent organic frameworks for dual-mode acidochromic responses. Materials Today Chemistry, 2022, 26, 101027.                               | 1.7  | 1         |
| 993  | Incorporating Conducting Polypyrrole into a Polyimide COF for Carbon-Free Ultra-High Energy Supercapacitor. Advanced Energy Materials, 2022, 12, .   | 10.2 | 54        |
| 994  | Recent progress on covalent organic framework materials as CO2 reduction electrocatalysts. Frontiers in Chemistry, 0, 10, .  | 1.8  | 6         |
| 995  | Recent advancements of photo- and electro-active hydrogen-bonded organic frameworks. Science China Chemistry, 2022, 65, 2077-2095.   | 4.2  | 33        |
| 996  | Cu-Based Organic-Inorganic Composite Materials for Electrochemical CO <sub>2</sub> Reduction. Chemistry - an Asian Journal, 2022, 17, .  | 1.7  | 12        |
| 997  | Synthesis of bimetallic covalent organic framework nanocomposite for enhanced electrochemical detection of gallic acid. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 651, 129748. | 2.3  | 12        |
| 998  | Adsorptive Removal of Naproxen from Water Using Polyhedral Oligomeric Silesquioxane (POSS) Covalent Organic Frameworks (COFs). Nanomaterials, 2022, 12, 2491.  | 1.9  | 8         |
| 999  | Imide-Based Covalent Organic Frameworks/Carbon Nanotube Composites as Anode Materials for Potassium Storage. ChemistrySelect, 2022, 7, .   | 0.7  | 5         |
| 1000 | Designing energetic covalent organic frameworks for stabilizing high-energy compounds. Nano Research, 2023, 16, 1507-1512.   | 5.8  | 7         |
| 1001 | On-Surface Synthesis toward Two-Dimensional Polymers. Journal of Physical Chemistry Letters, 2022, 13, 8062-8077.  | 2.1  | 9         |

| #    | ARTICLE   | IF   | CITATIONS |
|------|---|------|-----------|
| 1002 | Metal composites based on pyrimidine-functionalized covalent organic frameworks and their catalytic performances. <i>Materials Letters</i> , 2022, 327, 133065.   | 1.3  | 0         |
| 1003 | Sol-gel processing of a covalent organic framework for the generation of hierarchically porous monolithic adsorbents. <i>CheM</i> , 2022, 8, 2961-2977.   | 5.8  | 18        |
| 1004 | A critical review of covalent organic frameworks-based sorbents in extraction methods. <i>Analytica Chimica Acta</i> , 2022, 1224, 340207.  | 2.6  | 50        |
| 1005 | Metal-free catalysis of the reductive amination of aldehydes using a phosphonium-doped porous aromatic framework. <i>Molecular Catalysis</i> , 2022, 530, 112600.   | 1.0  | 3         |
| 1006 | An AI-Egen-based hydrazone-linked covalent organic polymer for solid-state fluorescent materials. <i>Dyes and Pigments</i> , 2022, 206, 110636.   | 2.0  | 3         |
| 1007 | Covalent organic frameworks (COFs)-derived nitrogen-doped carbon/reduced graphene oxide nanocomposite as electrodes materials for supercapacitors. <i>Journal of Energy Storage</i> , 2022, 55, 105375.   | 3.9  | 35        |
| 1008 | Pyrazine and crown ethers: functional covalent organic polymers for (solar-assisted) high capacity and rate performance lithium-organic battery. <i>Materials Today Chemistry</i> , 2022, 26, 101082.   | 1.7  | 3         |
| 1009 | Supramolecular Engineering of Amorphous Porous Polymers for Rapid Adsorption of Micropollutants and Solar-Powered Volatile Organic Compounds Management. <i>Advanced Materials</i> , 2022, 34, .  | 11.1 | 14        |
| 1010 | Direct Z-scheme covalent triazine-based framework/Bi <sub>2</sub> WO <sub>6</sub> heterostructure for efficient photocatalytic degradation of tetracycline: Kinetics, mechanism and toxicity. <i>Journal of Water Process Engineering</i> , 2022, 49, 103021. | 2.6  | 18        |
| 1011 | Recent advances in developing mixed matrix membranes based on covalent organic frameworks. <i>Separation and Purification Technology</i> , 2022, 301, 122004.   | 3.9  | 13        |
| 1012 | Developing practical solid-state rechargeable Li-ion batteries: Concepts, challenges, and improvement strategies. <i>Journal of Energy Storage</i> , 2022, 55, 105688.  | 3.9  | 11        |
| 1013 | Covalent organic framework-based catalysts for efficient CO <sub>2</sub> utilization reactions. <i>Coordination Chemistry Reviews</i> , 2022, 473, 214835.  | 9.5  | 25        |
| 1014 | Covalent organic frameworks (COFs)-based biosensors for the assay of disease biomarkers with clinical applications. <i>Biosensors and Bioelectronics</i> , 2022, 217, 114668.   | 5.3  | 41        |
| 1015 | Confining enzymes in porous organic frameworks: from synthetic strategy and characterization to healthcare applications. <i>Chemical Society Reviews</i> , 2022, 51, 6824-6863.   | 18.7 | 108       |
| 1016 | Novel quadrilateral-pore 2D-COFs as visible-light driven catalysts evaluated by the descriptor of integrated p-orbital population. <i>Nanoscale</i> , 2022, 14, 15713-15723.  | 2.8  | 5         |
| 1017 | Synthesis of stack plate covalent organic framework nanotubes using a self-assembled acid as a soft template. <i>Chemical Communications</i> , 2022, 58, 9148-9151.   | 2.2  | 7         |
| 1018 | Photoelectrochemical water splitting with a triazine based covalent organic framework. <i>Sustainable Energy and Fuels</i> , 2022, 6, 4248-4255.  | 2.5  | 6         |
| 1019 | Recent trends in covalent organic frameworks (COFs) for carbon dioxide reduction. <i>Materials Advances</i> , 2022, 3, 8063-8080.   | 2.6  | 12        |

| #    | ARTICLE   | IF   | CITATIONS |
|------|---|------|-----------|
| 1020 | Impact of Pore Flexibility in Imine-Linked Covalent Organic Frameworks on Benzene and Cyclohexane Adsorption. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 40890-40901.  | 4.0  | 11        |
| 1021 | A covalent organic framework onion structure. <i>Materials Today</i> , 2022, 60, 98-105.  | 8.3  | 11        |
| 1022 | Recent Advances and Reliable Assessment of Solid-State Materials for Hydrogen Storage: A Step Forward toward a Sustainable H <sub>2</sub> Economy. <i>Advanced Sustainable Systems</i> , 2022, 6, .   | 2.7  | 21        |
| 1023 | Bimetal Covalent Organic Frameworks/Carbon Nanotube-Derived Iron, Cobalt and Nitrogen-Codoped Catalysts for Efficient Oxygen Electrocatalysis and Zinc-Air Batteries. <i>ChemNanoMat</i> , 0, , .   | 1.5  | 3         |
| 1024 | Advanced Strategies for Stabilizing Single-Atom Catalysts for Energy Storage and Conversion. <i>Electrochemical Energy Reviews</i> , 2022, 5, .   | 13.1 | 43        |
| 1025 | Engineering Covalent Organic Frameworks as Heterogeneous Photocatalysts for Organic Transformations. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .   | 7.2  | 55        |
| 1026 | Engineering Covalent Organic Frameworks as Heterogeneous Photocatalysts for Organic Transformations. <i>Angewandte Chemie</i> , 2022, 134, .  | 1.6  | 2         |
| 1027 | Recent advances in covalent organic framework (COF) nanotextures with band engineering for stimulating solar hydrogen production: A comprehensive review. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 34323-34375.                    | 3.8  | 13        |
| 1028 | Supercapacitors of Nanocrystalline Covalent Organic Frameworks—A Review. <i>Crystals</i> , 2022, 12, 1350.  | 1.0  | 5         |
| 1029 | Photocatalytic Water Splitting Promoted by 2D and 3D Porphyrin Covalent Organic Polymers Synthesized by Suzuki-Miyaura Carbon-Carbon Coupling. <i>Nanomaterials</i> , 2022, 12, 3197.   | 1.9  | 3         |
| 1030 | Interfacial Polymerization of Self-Standing Covalent Organic Framework Membranes at Alkane/Ionic Liquid Interfaces for Dye Separation. <i>ACS Applied Polymer Materials</i> , 2022, 4, 7528-7536.   | 2.0  | 9         |
| 1031 | Photoredox Catalysis by Covalent Organic Frameworks. , 0, , .   |      | 1         |
| 1032 | Three-Dimensional Covalent Organic Frameworks with <i>she</i> Topology. <i>Journal of the American Chemical Society</i> , 2022, 144, 18511-18517.   | 6.6  | 55        |
| 1033 | Vertical Growth of 2D Covalent Organic Framework Nanoplatelets on a Macroporous Scaffold for High-Performance Electrodes. <i>Advanced Materials</i> , 2022, 34, .   | 11.1 | 15        |
| 1034 | Site-selective synthesis of an amine-functionalized Î <sup>2</sup> -ketoenamine-linked covalent organic framework for improved detection and removal of Cu <sup>2+</sup> ion from water. <i>Journal of Solid State Chemistry</i> , 2022, 316, 123644. | 1.4  | 15        |
| 1035 | Coupling of nanocrystal hexagonal array and two-dimensional metastable substrate boosts H <sub>2</sub> -production. <i>Nature Communications</i> , 2022, 13, .  | 5.8  | 22        |
| 1036 | Ultrathin Cage-Based Covalent Organic Framework Nanosheets as Precursor for Pyrolysis-Free Oxygen Evolution Reaction Electrocatalyst. <i>ChemNanoMat</i> , 2022, 8, .   | 1.5  | 4         |
| 1037 | Covalent organic framework membranes prepared via mixed linker modulated assembly for hydrogen peroxide enrichment. <i>Journal of Membrane Science</i> , 2022, 663, 121043.   | 4.1  | 1         |

| #    | ARTICLE  | IF  | CITATIONS |
|------|--|-----|-----------|
| 1038 | A covalent organic framework/graphene aerogel electrocatalyst for enhanced overall water splitting. <i>Nanoscale</i> , 2022, 14, 16944-16951.  | 2.8 | 12        |
| 1039 | Photosynthesis of hydrogen peroxide in water: a promising on-site strategy for water remediation. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 2819-2842.  | 1.2 | 2         |
| 1040 | Bandgap engineering of covalent organic frameworks for boosting photocatalytic hydrogen evolution from water. <i>Journal of Materials Chemistry A</i> , 2022, 10, 24620-24627.   | 5.2 | 14        |
| 1041 | Tuning the lattice parameters and porosity of 2D imine covalent organic frameworks by chemically integrating 4-aminobenzaldehyde as a bifunctional linker. <i>Chemical Communications</i> , 0, .   | 2.2 | 1         |
| 1042 | Constructing a metal-free 2D covalent organic framework for visible-light-driven photocatalytic reduction of CO <sub>2</sub> : a sustainable strategy for atmospheric CO <sub>2</sub> utilization. <i>Reaction Chemistry and Engineering</i> , 2023, 8, 365-376. | 1.9 | 4         |
| 1043 | Ion-π Conjugation: A Promising Concept for Multifunctional Organic Semiconductors. <i>Small</i> , 2022, 18, .  | 5.2 | 9         |
| 1044 | Single-Crystalline Imine-Linked Two-Dimensional Covalent Organic Frameworks Separate Benzene and Cyclohexane Efficiently. <i>Journal of the American Chemical Society</i> , 2022, 144, 19813-19824.  | 6.6 | 54        |
| 1045 | Constitutional isomerism of the linkages in donor-acceptor covalent organic frameworks and its impact on photocatalysis. <i>Nature Communications</i> , 2022, 13, .  | 5.8 | 63        |
| 1046 | Thermally Conductive Self-Healing Nanoporous Materials Based on Hydrogen-Bonded Organic Frameworks. <i>Nano Letters</i> , 2022, 22, 8534-8540.   | 4.5 | 8         |
| 1047 | Conductive Covalent Organic Frameworks Meet Micro-Electrical Energy Storage: Mechanism, Synthesis and Applications—A Review. <i>Crystals</i> , 2022, 12, 1405.   | 1.0 | 4         |
| 1048 | Catalytically Active Advanced Two-Dimensional Ultrathin Nanomaterials for Sustainable Energy. <i>Catalysts</i> , 2022, 12, 1167.   | 1.6 | 0         |
| 1049 | A Photoresponsive Battery Based on a Redox-Coupled Covalent Organic Framework Hybrid Photoelectrochemical Cathode. <i>Angewandte Chemie</i> , 2022, 134, .   | 1.6 | 0         |
| 1050 | A Photoresponsive Battery Based on a Redox-Coupled Covalent Organic Framework Hybrid Photoelectrochemical Cathode. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .  | 7.2 | 15        |
| 1051 | Natural Sunlight Photocatalytic Synthesis of Benzoxazole-Bridged Covalent Organic Framework for Photocatalysis. <i>Journal of the American Chemical Society</i> , 2022, 144, 18750-18755.  | 6.6 | 63        |
| 1052 | π-Electron-Extended Porphyrin-Linked Covalent Organic Framework for a Q-Switched All-Solid-State Laser. <i>Advanced Photonics Research</i> , 2023, 4, .  | 1.7 | 2         |
| 1053 | De novo design of transmembrane nanopores. <i>Science China Chemistry</i> , 2022, 65, 2122-2143.   | 4.2 | 5         |
| 1054 | Efficient room-temperature phosphorescence of covalent organic frameworks through covalent halogen doping. <i>Nature Chemistry</i> , 2023, 15, 83-90.  | 6.6 | 52        |
| 1055 | Engineering Polymeric Nanofluidic Membranes for Efficient Ionic Transport: Biomimetic Design, Material Construction, and Advanced Functionalities. <i>ACS Nano</i> , 2022, 16, 17613-17640.  | 7.3 | 15        |

| #    | ARTICLE  | IF   | CITATIONS |
|------|--|------|-----------|
| 1056 | Covalent organic frameworks towards photocatalytic applications: Design principles, achievements, and opportunities. <i>Coordination Chemistry Reviews</i> , 2023, 475, 214882.  | 9.5  | 71        |
| 1057 | Mixed matrix membranes for H <sub>2</sub> /CO <sub>2</sub> gas separation- a critical review. <i>Fuel</i> , 2023, 333, 126285.   | 3.4  | 27        |
| 1058 | Arylation of indole at C2 catalyzed by palygorskite grafted covalent organic frameworks supported palladium catalyst. <i>Applied Clay Science</i> , 2023, 231, 106754.   | 2.6  | 4         |
| 1059 | Core-shell magnetic CFO@COF composites toward peroxydisulfate activation for degradation of sulfamethoxazole from aqueous solution: A comparative study and mechanistic consideration. <i>Chemosphere</i> , 2023, 311, 137159. | 4.2  | 5         |
| 1060 | Efficient exfoliation of covalent organic frameworks by a facile thiol-ene reaction. <i>Chemical Engineering Journal</i> , 2023, 454, 140283.  | 6.6  | 6         |
| 1061 | Rational Construction of Electrically Conductive Covalent Organic Frameworks through Encapsulating Fullerene via Donor–Acceptor Interaction. <i>Macromolecular Rapid Communications</i> , 2023, 44, .                          | 2.0  | 2         |
| 1062 | Electron donor–acceptor (D-A) tuning to achieve soluble covalent organic polymers for optoelectronic devices. <i>EScience</i> , 2023, 3, 100084.   | 25.0 | 9         |
| 1063 | Advances of Carbon Materials for Dual-Carbon Lithium-Ion Capacitors: A Review. <i>Nanomaterials</i> , 2022, 12, 3954.  | 1.9  | 3         |
| 1064 | Preparation and photocatalytic property of exfoliated poly(phenylenethiazolo[5,4- <i>cd</i> ]thiazole) copolymers. <i>Journal of Materials Science</i> , 0, , .  | 1.7  | 0         |
| 1065 | Mechanochemistry-guided reticular assembly for stabilizing enzymes with covalent organic frameworks. <i>Cell Reports Physical Science</i> , 2022, 3, 101153.   | 2.8  | 14        |
| 1066 | Heterogenization of Salen Metal Molecular Catalysts in Covalent Organic Frameworks for Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .                                       | 7.2  | 23        |
| 1067 | Editorial: Materials for electroanalysis and electrocatalysis based on advanced frameworks. <i>Frontiers in Chemistry</i> , 0, 10, .   | 1.8  | 0         |
| 1068 | Intrinsic Second-Order Topological Insulator in Two-Dimensional Covalent Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 10905-10911.   | 2.1  | 5         |
| 1069 | Heterogenization of Salen Metal Molecular Catalysts in Covalent Organic Frameworks for Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie</i> , 0, , .  | 1.6  | 0         |
| 1070 | Advances in organic microporous membranes for CO <sub>2</sub> separation. <i>Energy and Environmental Science</i> , 2023, 16, 53-75.   | 15.6 | 24        |
| 1071 | Ion-selective covalent organic frameworks boosting electrochemical energy storage and conversion: A review. <i>Energy Storage Materials</i> , 2023, 55, 498-516.   | 9.5  | 19        |
| 1072 | Probing dynamic covalent chemistry in a 2D boroxine framework by <i>in situ</i> near-ambient pressure X-ray photoelectron spectroscopy. <i>Nanoscale</i> , 0, , .  | 2.8  | 4         |
| 1073 | ROS-scavenging biomaterials for periodontitis. <i>Journal of Materials Chemistry B</i> , 2023, 11, 482-499.  | 2.9  | 16        |



| #    | ARTICLE   | IF  | CITATIONS |
|------|---|-----|-----------|
| 1074 | Exploration of metal organic frameworks and covalent organic frameworks for energy-related applications. <i>Coordination Chemistry Reviews</i> , 2023, 477, 214968.   | 9.5 | 77        |
| 1075 | Connecting the dots for fundamental understanding of structure–photophysics–property relationships of COFs, MOFs, and perovskites using a Multiparticle Holstein Formalism. <i>Chemical Science</i> , 2023, 14, 1040-1064.              | 3.7 | 2         |
| 1076 | Novel magnetic covalent organic framework for the selective and effective removal of hazardous metal Pb(II) from solution: Synthesis and adsorption characteristics. <i>Separation and Purification Technology</i> , 2023, 307, 122783. | 3.9 | 25        |
| 1077 | Flexible three-dimensional covalent organic frameworks for ultra-fast and selective extraction of uranium via hydrophilic engineering. <i>Journal of Hazardous Materials</i> , 2023, 445, 130442.                                       | 6.5 | 12        |
| 1078 | Tetraphenylethylene and porphyrin-based covalent organic framework with square lattice for effective photocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2023, 613, 155966.   | 3.1 | 8         |
| 1079 | Controllable Synthesis and Photocatalytic Applications of Two-dimensional Covalent Organic Frameworks. <i>Acta Chimica Sinica</i> , 2022, 80, 1494.   | 0.5 | 5         |
| 1080 | Understanding solar fuel photocatalysis using covalent organic frameworks. <i>Photochemistry</i> , 2022, , 403-427.   | 0.2 | 0         |
| 1081 | Enabling Solution Processable COFs through Suppression of Precipitation during Solvothermal Synthesis. <i>ACS Nano</i> , 2022, 16, 20964-20974.   | 7.3 | 20        |
| 1082 | A donor-acceptor covalent organic framework as the promising construct for photothermal therapy. <i>Science China Materials</i> , 2023, 66, 1227-1236.  | 3.5 | 14        |
| 1083 | Surface Curvature Dominated Guest-Induced Nonequilibrium Deformations of Single Covalent Organic Framework-300 Particles. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .  | 7.2 | 2         |
| 1084 | Effect of solvent and acid on the morphology of the $\beta^2$ -ketoenamine-linked covalent organic frameworks (COFs). <i>Materials Today: Proceedings</i> , 2023, 78, 885-890.  | 0.9 | 2         |
| 1085 | Advanced Nanostructured Materials for Electrocatalysis in Lithium–Sulfur Batteries. <i>Nanomaterials</i> , 2022, 12, 4341.  | 1.9 | 12        |
| 1086 | Covalent organic frameworks: Recent advances in synthesis, characterization and their application in the environmental and agricultural sectors. <i>Results in Chemistry</i> , 2022, , 100719.  | 0.9 | 0         |
| 1087 | New carbazole-based conjugated frameworks for carbon dioxide capture and water purification: Insights on the adsorptive sites' chemistry. <i>Microporous and Mesoporous Materials</i> , 2023, 349, 112427.                              | 2.2 | 1         |
| 1088 | Benzotrithiophene-based Covalent Organic Framework Photocatalysts with Controlled Conjugation of Building Blocks for Charge Stabilization. <i>Angewandte Chemie</i> , 2023, 135, .  | 1.6 | 1         |
| 1089 | Benzotrithiophene-based Covalent Organic Framework Photocatalysts with Controlled Conjugation of Building Blocks for Charge Stabilization. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .                               | 7.2 | 28        |
| 1090 | Functional Covalent Organic Framework Films Based on Surface and Interfacial Chemistry for Molecular Separations. <i>Langmuir</i> , 2023, 39, 20-27.  | 1.6 | 8         |
| 1091 | Surface Curvature Dominated Guest-Induced Nonequilibrium Deformations of Single Covalent Organic Framework-300 Particles. <i>Angewandte Chemie</i> , 0, , .   | 1.6 | 0         |

| #    | ARTICLE  | IF   | CITATIONS |
|------|--|------|-----------|
| 1092 | Porous Materials for Water Purification. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .  | 7.2  | 38        |
| 1093 | Hydrogen Bond Networks Stabilized High-Capacity Organic Cathode for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2023, 135, .   | 1.6  | 4         |
| 1094 | Porous Materials for Water Purification. <i>Angewandte Chemie</i> , 2023, 135, .   | 1.6  | 0         |
| 1095 | Photocatalysis of Covalent Organic Frameworks. , 0, , .  |      | 1         |
| 1096 | Organic Anode Materials for Lithium-Ion Batteries: Recent Progress and Challenges. <i>Materials</i> , 2023, 16, 177.   | 1.3  | 11        |
| 1097 | Hydrogen Bond Networks Stabilized High-Capacity Organic Cathode for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .  | 7.2  | 17        |
| 1098 | Covalent organic frameworks. <i>Nature Reviews Methods Primers</i> , 2023, 3, .  | 11.8 | 99        |
| 1099 | A review of the synthesis, properties, and applications of 2D transition metal dichalcogenides and their heterostructures. <i>Materials Chemistry and Physics</i> , 2023, 297, 127332.                                       | 2.0  | 29        |
| 1100 | Cobalt-Doped MoS <sub>2</sub> -Integrated Hollow Structured Covalent Organic Framework Nanospheres for the Effective Photoreduction of CO <sub>2</sub> under Visible Light. <i>Energy &amp; Fuels</i> , 2023, 37, 2329-2339. | 2.5  | 6         |
| 1101 | COF-based artificial probiotic for modulation of gut microbiota and immune microenvironment in inflammatory bowel disease. <i>Chemical Science</i> , 2023, 14, 1598-1605.  | 3.7  | 3         |
| 1102 | Two-Dimensional Benzobisthiazole-Vinylene-Linked Covalent Organic Frameworks Outperform One-Dimensional Counterparts in Photocatalysis. <i>ACS Catalysis</i> , 2023, 13, 1089-1096.  | 5.5  | 26        |
| 1103 | A self-standing three-dimensional covalent organic framework film. <i>Nature Communications</i> , 2023, 14, .  | 5.8  | 19        |
| 1104 | Multiple Impact-Resistant 2D Covalent Organic Framework. <i>Nano Letters</i> , 2023, 23, 1416-1423.  | 4.5  | 7         |
| 1105 | Fluorinated Covalent Organic Framework as a Positive Triboelectric Material for High-Performance Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2023, 33, .  | 7.8  | 15        |
| 1106 | Covalent Organic Frameworks (COFs) as Multi-Target Multifunctional Frameworks. <i>Polymers</i> , 2023, 15, 267.  | 2.0  | 14        |
| 1107 | Macrocyclic-Based Covalent Organic Frameworks. <i>Advanced Materials</i> , 2023, 35, .   | 11.1 | 22        |
| 1108 | Recent advances in membrane-based materials for desalination and gas separation. <i>Journal of Cleaner Production</i> , 2023, 387, 135845.   | 4.6  | 19        |
| 1109 | A comprehensive review of hybrid supercapacitor from transition metal and industrial crop based activated carbon for energy storage applications. <i>Materials Today Communications</i> , 2023, 34, 105207.                  | 0.9  | 9         |

| #    | ARTICLE   | IF   | CITATIONS |
|------|---|------|-----------|
| 1110 | 2D/3D covalent organic frameworks based on cobalt corroles for CO binding. <i>Materials Today Chemistry</i> , 2023, 28, 101357.   | 1.7  | 3         |
| 1111 | Theoretical Study on Electroreduction of CO <sub>2</sub> to C <sub>3+</sub> Catalyzed by Polymetallic Phthalocyanine Covalent Organic Frameworks (COFs) in Tandem. <i>Catalysis Letters</i> , 2023, 153, 3270-3283.                                       | 1.4  | 3         |
| 1112 | Customizable 2D Covalent Organic Frameworks for Optoelectronic Applications. <i>Chinese Journal of Chemistry</i> , 2023, 41, 1260-1285.   | 2.6  | 4         |
| 1113 | Janus Dione-Based Conjugated Covalent Organic Frameworks with High Conductivity as Superior Cathode Materials. <i>Journal of the American Chemical Society</i> , 2023, 145, 1022-1030.  | 6.6  | 42        |
| 1114 | Recent Trends in the Design, Synthesis and Biomedical Applications of Covalent Organic Frameworks. <i>Polymers</i> , 2023, 15, 139.   | 2.0  | 6         |
| 1115 | Covalent organic frameworks as advanced materials in the application of chemical detection. <i>Journal of Polymer Science</i> , 0, , .  | 2.0  | 2         |
| 1116 | Covalent organic frameworks editing for efficient metallaphotoredox catalytic carbon-oxygen cross coupling of aryl halides with alcohols. <i>Catalysis Science and Technology</i> , 2023, 13, 1518-1526.  | 2.1  | 4         |
| 1117 | Integrating Bifunctionality and Chemical Stability in Covalent Organic Frameworks via One-Pot Multicomponent Reactions for Solar-Driven H <sub>2</sub> O <sub>2</sub> Production. <i>Journal of the American Chemical Society</i> , 2023, 145, 2975-2984. | 6.6  | 71        |
| 1118 | Antiaromatic Covalent Organic Frameworks Based on Dibenzopentalenes. <i>Journal of the American Chemical Society</i> , 2023, 145, 2840-2851.  | 6.6  | 17        |
| 1119 | Covalent organic framework-functionalized Au and Ag nanoparticles: Synthesis and applications. , 2023, , 355-378.   |      | 1         |
| 1120 | Charge and mass transport mechanisms in two-dimensional covalent organic frameworks (2D COFs) for electrochemical energy storage devices. <i>Energy and Environmental Science</i> , 2023, 16, 889-951.  | 15.6 | 29        |
| 1121 | Construction of 2D covalent organic framework and graphene oxide hybrids as high-performance capacitive materials. <i>Polymer Chemistry</i> , 2023, 14, 803-810.  | 1.9  | 5         |
| 1122 | 2D Covalent Organic Frameworks Based on Heteroacene Units. <i>Small</i> , 2023, 19, .   | 5.2  | 11        |
| 1123 | Chiral covalent triazine framework CC-DMP CCTF@SiO <sub>2</sub> core-shell microspheres used for HPLC enantioseparation. <i>New Journal of Chemistry</i> , 2023, 47, 5413-5419.   | 1.4  | 3         |
| 1124 | A COF-coated ordered porous framework as multifunctional polysulfide barrier towards high-performance lithium-sulfur batteries. <i>Journal of Colloid and Interface Science</i> , 2023, 638, 542-551.   | 5.0  | 2         |
| 1125 | Enhancement of Visible-Light-Driven Hydrogen Evolution Activity of 2D Conjugated Bipyridine-Based Covalent Organic Frameworks via Post-Protonation. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .  | 7.2  | 32        |
| 1126 | Crystallinity Regulation and Defects Passivation for Efficient and Stable Perovskite Solar Cells Using Fully Conjugated Porous Aromatic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .  | 7.2  | 6         |
| 1127 | Functional nanomaterials for selective uranium recovery from seawater: Material design, extraction properties and mechanisms. <i>Coordination Chemistry Reviews</i> , 2023, 483, 215097.  | 9.5  | 61        |

| #    | ARTICLE  | IF   | CITATIONS |
|------|--|------|-----------|
| 1128 | Recent advance and applications of covalent organic frameworks based on magnetic solid-phase extraction technology for food safety analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2023, 162, 117054.   | 5.8  | 13        |
| 1129 | A novel clover-like COFs membrane fabricated via one-step interfacial polymerization for dye/salt separation. <i>Journal of Membrane Science</i> , 2023, 673, 121470.  | 4.1  | 20        |
| 1130 | A robust sp <sup>2</sup> carbon-conjugated COF for efficient iodine uptake. <i>Separation and Purification Technology</i> , 2023, 312, 123401.   | 3.9  | 14        |
| 1131 | Latest advances in layered covalent organic frameworks for water and wastewater treatment. <i>Chemosphere</i> , 2023, 329, 138580.   | 4.2  | 25        |
| 1132 | Ultrafine Cu nanoclusters confined within covalent organic frameworks for efficient electroreduction of CO <sub>2</sub> to CH <sub>4</sub> by synergistic strategy. <i>EScience</i> , 2023, 3, 100116.   | 25.0 | 8         |
| 1133 | Highly efficient iodine capture by hydrophobic bismuth-based chrysotile membrane from humid gas streams. <i>Separation and Purification Technology</i> , 2023, 312, 123374.  | 3.9  | 11        |
| 1134 | Covalent Organic Frameworks: The Rising Star Platforms for the Design of CO <sub>2</sub> Separation Membranes. <i>Small</i> , 2023, 19, .  | 5.2  | 21        |
| 1135 | Covalent Organic Frameworks for Capacitive Energy Storage: Recent Progress and Technological Challenges. <i>Advanced Materials Technologies</i> , 2023, 8, .   | 3.0  | 7         |
| 1136 | Engineering $\beta$ -ketoamine covalent organic frameworks for photocatalytic overall water splitting. <i>Nature Communications</i> , 2023, 14, .  | 5.8  | 54        |
| 1137 | [2,1,3]-Benzothiadiazole-Spaced Co-Porphyrin-Based Covalent Organic Frameworks for O <sub>2</sub> Reduction. <i>ACS Nano</i> , 2023, 17, 3492-3505.  | 7.3  | 13        |
| 1138 | State and future implementation perspectives of porous carbon-based hybridized matrices for lithium sulfur battery. <i>Coordination Chemistry Reviews</i> , 2023, 481, 215055.   | 9.5  | 9         |
| 1139 | Enhancement of Visible-Light-Driven Hydrogen Evolution Activity of 2D $\pi$ -Conjugated Bipyridine-Based Covalent Organic Frameworks via Post-Protonation. <i>Angewandte Chemie</i> , 2023, 135, .   | 1.6  | 7         |
| 1140 | Monolayer-Assisted Surface-Initiated Schiff-Base-Mediated Aldol Polycondensation for the Synthesis of Crystalline sp <sup>2</sup> Carbon-Conjugated Covalent Organic Framework Thin Films. <i>Journal of the American Chemical Society</i> , 2023, 145, 5203-5210. | 6.6  | 22        |
| 1141 | Advanced porous adsorbents for radionuclides elimination. <i>EnergyChem</i> , 2023, 5, 100101.   | 10.1 | 84        |
| 1142 | Suppressing Nonradiative Recombination by Electron-Donating Substituents in 2D Conjugated Triphenylamine Polymers toward Efficient Perovskite Optoelectronics. <i>Nano Letters</i> , 2023, 23, 1954-1960.  | 4.5  | 7         |
| 1143 | Inverse Gas Chromatography Demonstrates the Crystallinity-Dependent Physicochemical Properties of Two-Dimensional Covalent Organic Framework Stationary Phases. <i>Chemistry of Materials</i> , 2023, 35, 1691-1701.   | 3.2  | 13        |
| 1144 | Metal ion-catalyzed interfacial polymerization of functionalized covalent organic framework films for efficient separation. <i>European Polymer Journal</i> , 2023, 188, 111939.   | 2.6  | 2         |
| 1145 | Supramolecular framework membrane for precise sieving of small molecules, nanoparticles and proteins. <i>Nature Communications</i> , 2023, 14, .   | 5.8  | 17        |

| #    | ARTICLE   | IF  | CITATIONS |
|------|---|-----|-----------|
| 1146 | Insertion of CO <sub>2</sub> in metal ion-doped two-dimensional covalent organic frameworks. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .                  | 3.3 | 5         |
| 1147 | Recent progress in COF-based electrode materials for rechargeable metal-ion batteries. Nano Research, 2023, 16, 6753-6770.  | 5.8 | 18        |
| 1148 | Near-Infrared Light Driven ZnIn <sub>2</sub> S <sub>4</sub> -Based Photocatalysts for Environmental and Energy Applications: Progress and Perspectives. Molecules, 2023, 28, 2142.                          | 1.7 | 6         |
| 1149 | Covalent Organic Frameworks: From Structures to Applications. Polymers, 2023, 15, 1279.   | 2.0 | 16        |
| 1150 | Metal-organic and covalent-organic frameworks for CO <sub>2</sub> capture. , 2023, , 101-134.   |     | 0         |
| 1151 | Designed sulfonate-based covalent organic frameworks with dual functions of recognition and encapsulation. Journal of Materials Chemistry A, 2023, 11, 7539-7544.   | 5.2 | 5         |
| 1152 | Construction of Multiform Hollow-Structured Covalent Organic Frameworks via a Facile and Universal Strategy for Enhanced Sonodynamic Cancer Therapy. Angewandte Chemie, 2023, 135, .                        | 1.6 | 2         |
| 1153 | A hydrazone-linked covalent organic framework with abundant N and O atoms for detecting heavy metal ions. Journal of Electroanalytical Chemistry, 2023, 934, 117307.  | 1.9 | 6         |
| 1154 | Construction of Multiform Hollow-Structured Covalent Organic Frameworks via a Facile and Universal Strategy for Enhanced Sonodynamic Cancer Therapy. Angewandte Chemie - International Edition, 2023, 62, . | 7.2 | 13        |
| 1155 | Post-cyclization of a bisimine-linked covalent organic framework to enhance the performance of visible-light photocatalytic hydrogen evolution. Polymer Chemistry, 2023, 14, 1323-1329.                     | 1.9 | 1         |
| 1156 | General Strategy for Incorporation of Functional Group Handles into Covalent Organic Frameworks via the Ugi Reaction. Journal of the American Chemical Society, 2023, 145, 6230-6239.                       | 6.6 | 18        |
| 1158 | Covalent organic frameworks (COFs): a promising CO <sub>2</sub> capture candidate material. Polymer Chemistry, 2023, 14, 1293-1317.   | 1.9 | 6         |
| 1159 | A step-growth strategy to grow vertical porous aromatic framework nanosheets on graphene oxide: Hybrid material-confined Co for ammonia borane methanolysis. , 2023, 5, .                                   |     | 5         |
| 1160 | Electrochemical and Optical Sensors for the Detection of Chemical Carcinogens Causing Leukemia. Sensors, 2023, 23, 3369.  | 2.1 | 1         |
| 1161 | Monolithic Covalent Organic Frameworks with Hierarchical Architecture: Attractive Platform for Contaminant Remediation. Chemistry of Materials, 2023, 35, 2661-2682.  | 3.2 | 52        |
| 1162 | Development of Solid-phase Microextraction Fiber Coatings. , 2023, , 135-174.   |     | 0         |
| 1163 | Dual-Response Photofunctional Covalent Organic Framework for Acid Detection in Various Solutions. Chemosensors, 2023, 11, 214.  | 1.8 | 0         |
| 1164 | A sulfonate-functionalized covalent organic framework for record-high adsorption and effective separation of organic dyes. Chemical Engineering Journal, 2023, 464, 142706.                                 | 6.6 | 30        |

| #    | ARTICLE  | IF   | CITATIONS |
|------|--|------|-----------|
| 1165 | Novel Microwave-Assisted Synthesis of COFs: 2020–2022. <i>Molecules</i> , 2023, 28, 3112.  | 1.7  | 6         |
| 1166 | Covalent Organic Frameworks (COFs)/MXenes Heterostructures for Electrochemical Energy Storage. <i>Crystal Growth and Design</i> , 2023, 23, 3057-3078.   | 1.4  | 9         |
| 1167 | Oriented Covalent Organic Framework Film Synthesis from Azomethine Compounds. <i>Advanced Materials Interfaces</i> , 2023, 10, .   | 1.9  | 1         |
| 1168 | Superior mechanical properties of multilayer covalent-organic frameworks enabled by rationally tuning molecular interlayer interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, . | 3.3  | 7         |
| 1169 | Crystallinity Regulation and Defects Passivation for Efficient and Stable Perovskite Solar Cells Using Fully Conjugated Porous Aromatic Frameworks. <i>Angewandte Chemie</i> , 0, , .  | 1.6  | 0         |
| 1170 | An Imine-Based Porous 3D Covalent Organic Polymer as a New Sorbent for the Solid-Phase Extraction of Amphenicols from Water Sample. <i>Molecules</i> , 2023, 28, 3301.   | 1.7  | 1         |
| 1171 | On-Surface Synthesis and Applications of 2D Covalent Organic Framework Nanosheets. <i>Electronic Materials</i> , 2023, 4, 49-61.   | 0.9  | 1         |
| 1172 | Efficient proton conduction in porous and crystalline covalent-organic frameworks (COFs). <i>Journal of Energy Chemistry</i> , 2023, 82, 198-218.  | 7.1  | 13        |
| 1173 | Preserving Macroporosity in Type III Porous Liquids. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .  | 7.2  | 8         |
| 1174 | An Ion-Channel-Restructured Zwitterionic Covalent Organic Framework Solid Electrolyte for All-Solid-State Lithium-Metal Batteries. <i>Advanced Materials</i> , 2023, 35, .   | 11.1 | 17        |
| 1175 | Preserving Macroporosity in Type III Porous Liquids. <i>Angewandte Chemie</i> , 0, , .   | 1.6  | 1         |
| 1176 | Covalent organic frameworks in heterogeneous catalysis: recent advances and future perspective. <i>Materials Chemistry Frontiers</i> , 2023, 7, 3298-3331.   | 3.2  | 16        |
| 1177 | Crosslinked poly (isatin biphenyl spirofluorene) membranes for proton conduction over a wide temperature range from 40 to 160 °C. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 28150-28162.                                     | 3.8  | 3         |
| 1205 | A critical review on emerging photoactive porous materials for sulfide oxidation and sulfur mustard decontamination. <i>Green Chemistry</i> , 2023, 25, 5789-5812.   | 4.6  | 5         |
| 1232 | Covalent Organic Framework Featuring High Iodine Uptake for Li-Ion Battery: Unlocking the Potential of Hazardous Waste. , 0, , 2422-2430.  |      | 0         |
| 1236 | Prediction of CF <sub>4</sub> /N <sub>2</sub> adsorption and separation performance in organic frameworks based on machine learning algorithms. , 2023, , .  |      | 1         |
| 1239 | Hydrogen storage technology. , 2024, , 165-184.  |      | 0         |
| 1241 | Two-step fabrication of COF membranes for efficient carbon capture. <i>Materials Horizons</i> , 2023, 10, 5016-5021.   | 6.4  | 6         |



| #    | ARTICLE  | IF   | CITATIONS |
|------|--|------|-----------|
| 1244 | Porous crystalline materials for memories and neuromorphic computing systems. <i>Chemical Society Reviews</i> , 2023, 52, 7071-7136.   | 18.7 | 14        |
| 1246 | Covalent organic frameworks: linkage types, synthetic methods and bio-related applications. <i>Biomaterials Science</i> , 2023, 11, 6942-6976.   | 2.6  | 2         |
| 1247 | Potential of nonporous adaptive crystals for hydrocarbon separation. <i>Chemical Society Reviews</i> , 2023, 52, 6075-6119.  | 18.7 | 13        |
| 1258 | Computational Insights of Dimensional Organic Materials. , 2023, , 382-473.  |      | 2         |
| 1264 | Covalent Organic Framework with Polarization Dependence for Ultrafast Pulse Generation. , 2023, , .  |      | 0         |
| 1277 | Substituted benzophenone imines for COF synthesis <i>via</i> formal transimination. <i>Chemical Communications</i> , 2023, 59, 13639-13642.  | 2.2  | 1         |
| 1284 | Single-crystal polymers (SCPs): from 1D to 3D architectures. <i>Chemical Society Reviews</i> , 2023, 52, 8165-8193.  | 18.7 | 2         |
| 1290 | Recent advances in the utilization of covalent organic frameworks (COFs) as electrode materials for supercapacitors. <i>Chemical Science</i> , 2023, 14, 13601-13628.                            | 3.7  | 3         |
| 1292 | Expanding the horizons of covalent organic frameworks: sub-stoichiometric synthesis as an emerging toolkit for functional COFs. <i>Journal of Materials Chemistry A</i> , 2023, 11, 26340-26370. | 5.2  | 0         |
| 1297 | Advances of Electrochemical and Electrochemiluminescent Sensors Based on Covalent Organic Frameworks. <i>Nano-Micro Letters</i> , 2024, 16, .  | 14.4 | 2         |
| 1305 | Amorphous porous organic polymers containing main group elements. <i>Communications Chemistry</i> , 2023, 6, .   | 2.0  | 1         |
| 1306 | Revolutionizing the structural design and determination of covalent organic frameworks: principles, methods, and techniques. <i>Chemical Society Reviews</i> , 0, , .                            | 18.7 | 0         |
| 1308 | MOF (LiO-66-NH <sub>2</sub> )@COF (TFP TABQ) hybrids <i>via</i> on-surface condensation reactions for sustainable energy storage. <i>Chemical Communications</i> , 0, , .                        | 2.2  | 0         |
| 1326 | Non-CO <sub>2</sub> greenhouse gas separation using advanced porous materials. <i>Chemical Society Reviews</i> , 2024, 53, 2056-2098.  | 18.7 | 1         |
| 1349 | Recent progress on covalent organic frameworks for photocatalytic hydrogen generation <i>via</i> water splitting. <i>Materials Chemistry Frontiers</i> , 2024, 8, 1513-1535.                     | 3.2  | 0         |
| 1352 | Porous materials as effective chemiresistive gas sensors. <i>Chemical Society Reviews</i> , 2024, 53, 2530-2577.   | 18.7 | 0         |
| 1368 | Hydrogen-bonded organic frameworks for membrane separation. <i>Chemical Society Reviews</i> , 2024, 53, 2738-2760.   | 18.7 | 1         |