

Chun-Ting He

List of Publications by Year in descending order

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112
papers

12,496
citations

34016

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115
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115
docs citations

115
times ranked

12177
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrathin metal-organic framework nanosheets for electrocatalytic oxygen evolution. <i>Nature Energy</i> , 2016, 1, .	19.8	1,979
2	Structural transformation of highly active metal-organic framework electrocatalysts during the oxygen evolution reaction. <i>Nature Energy</i> , 2020, 5, 881-890.	19.8	647
3	An Alkaline-Stable, Metal Hydroxide Mimicking Metal-Organic Framework for Efficient Electrocatalytic Oxygen Evolution. <i>Journal of the American Chemical Society</i> , 2016, 138, 8336-8339.	6.6	453
4	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general host-guest strategy. <i>Nature Chemistry</i> , 2020, 12, 764-772.	6.6	452
5	Rational Design of Single Molybdenum Atoms Anchored on N-Doped Carbon for Effective Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16086-16090.	7.2	431
6	Single Tungsten Atoms Supported on MOF-Derived N-Doped Carbon for Robust Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018, 30, e1800396.	11.1	427
7	A general approach to cobalt-based homobimetallic phosphide ultrathin nanosheets for highly efficient oxygen evolution in alkaline media. <i>Energy and Environmental Science</i> , 2017, 10, 893-899.	15.6	412
8	Photoinduction of Cu Single Atoms Decorated on UiO-66-NH ₂ for Enhanced Photocatalytic Reduction of CO ₂ to Liquid Fuels. <i>Journal of the American Chemical Society</i> , 2020, 142, 19339-19345.	6.6	373
9	Oriented electron transmission in polyoxometalate-metalloporphyrin organic framework for highly selective electroreduction of CO ₂ . <i>Nature Communications</i> , 2018, 9, 4466.	5.8	342
10	Modular and Stepwise Synthesis of a Hybrid Metal-Organic Framework for Efficient Electrocatalytic Oxygen Evolution. <i>Journal of the American Chemical Society</i> , 2017, 139, 1778-1781.	6.6	341
11	Cage-Confinement Pyrolysis Route to Ultrasmall Tungsten Carbide Nanoparticles for Efficient Electrocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2017, 139, 5285-5288.	6.6	336
12	Electrochemical Exfoliation of Pillared-Layer Metal-Organic Framework to Boost the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4632-4636.	7.2	275
13	Exceptional Hydrophobicity of a Large-Pore Metal-Organic Zeolite. <i>Journal of the American Chemical Society</i> , 2015, 137, 7217-7223.	6.6	270
14	Accelerating water dissociation kinetics by isolating cobalt atoms into ruthenium lattice. <i>Nature Communications</i> , 2018, 9, 4958.	5.8	264
15	Extraction of nickel from NiFe-LDH into Ni ₂ P@NiFe hydroxide as a bifunctional electrocatalyst for efficient overall water splitting. <i>Chemical Science</i> , 2018, 9, 1375-1384.	3.7	257
16	Monodentate hydroxide as a super strong yet reversible active site for CO ₂ capture from high-humidity flue gas. <i>Energy and Environmental Science</i> , 2015, 8, 1011-1016.	15.6	233
17	Approaching the activity limit of CoSe ₂ for oxygen evolution via Fe doping and Co vacancy. <i>Nature Communications</i> , 2020, 11, 1664.	5.8	191
18	Switchable Guest Molecular Dynamics in a Perovskite-Like Coordination Polymer toward Sensitive Thermoresponsive Dielectric Materials. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 914-918.	7.2	186

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19	Molecular Dynamics of Flexible Polar Cations in a Variable Confined Space: Toward Exceptional Two-Step Nonlinear Optical Switches. <i>Advanced Materials</i> , 2016, 28, 5886-5890.	11.1	184
20	Single-Atom Co ⁴⁺ Electrocatalyst Enabling Four-Electron Oxygen Reduction with Enhanced Hydrogen Peroxide Tolerance for Selective Sensing. <i>Journal of the American Chemical Society</i> , 2020, 142, 16861-16867.	6.6	184
21	A porous coordination framework for highly sensitive and selective solid-phase microextraction of non-polar volatile organic compounds. <i>Chemical Science</i> , 2013, 4, 351-356.	3.7	183
22	Ultrathin Transition Metal Dichalcogenide/3d Metal Hydroxide Hybridized Nanosheets to Enhance Hydrogen Evolution Activity. <i>Advanced Materials</i> , 2018, 30, e1801171.	11.1	180
23	Isolated Ni Atoms Dispersed on Ru Nanosheets: High-Performance Electrocatalysts toward Hydrogen Oxidation Reaction. <i>Nano Letters</i> , 2020, 20, 3442-3448.	4.5	172
24	Engineering of Pore Geometry for Ultrahigh Capacity Methane Storage in Mesoporous Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 13300-13303.	6.6	140
25	A Metal-Organic Framework with a Pore Size/Shape Suitable for Strong Binding and Close Packing of Methane. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4674-4678.	7.2	137
26	Intermediate-sized molecular sieving of styrene from larger and smaller analogues. <i>Nature Materials</i> , 2019, 18, 994-998.	13.3	133
27	Direct visualization of a guest-triggered crystal deformation based on a flexible ultramicroporous framework. <i>Nature Communications</i> , 2013, 4, 2534.	5.8	120
28	Non-3d Metal Modulation of a Cobalt Imidazolate Framework for Excellent Electrocatalytic Oxygen Evolution in Neutral Media. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 139-143.	7.2	113
29	Molecular perovskite high-energetic materials. <i>Science China Materials</i> , 2018, 61, 1123-1128.	3.5	109
30	Enantioseparation of Au ₂₀ (PP ₃) ₄ Cl ₄ Clusters with Intrinsically Chiral Cores. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9059-9063.	7.2	104
31	Above-room-temperature ferroelastic phase transition in a perovskite-like compound [N(CH ₃) ₄][Cd(N ₃) ₃]. <i>Chemical Communications</i> , 2014, 50, 1989.	2.2	90
32	Electrochemical Exfoliation of Pillared Layer Metal-Organic Framework to Boost the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2018, 130, 4722-4726.	1.6	86
33	Grafting alkylamine in UiO-66 by charge-assisted coordination bonds for carbon dioxide capture from high-humidity flue gas. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21849-21855.	5.2	83
34	Rational Design of Single Molybdenum Atoms Anchored on N-Doped Carbon for Effective Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2017, 129, 16302-16306.	1.6	82
35	New Zn-Aminotriazolate-Dicarboxylate Frameworks: Synthesis, Structures, and Adsorption Properties. <i>Crystal Growth and Design</i> , 2013, 13, 2118-2123.	1.4	76
36	Photoinduced water oxidation by an organic ligand incorporated into the framework of a stable metal-organic framework. <i>Chemical Science</i> , 2016, 7, 1070-1075.	3.7	76

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37	Crystalline Supramolecular Gyroscope with a Water Molecule as an Ultrasmall Polar Rotator Modulated by Charge-Assisted Hydrogen Bonds. <i>Journal of the American Chemical Society</i> , 2017, 139, 8086-8089.	6.6	76
38	Molecular Dynamics, Phase Transition and Frequency-Tuned Dielectric Switch of an Ionic Co-Crystal. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8032-8036.	7.2	71
39	Water-Stable Europium 1,3,6,8-Tetrakis(4-carboxylphenyl)pyrene Framework for Efficient $C_{2H_{2O}}/CO_{2}$ Separation. <i>Inorganic Chemistry</i> , 2019, 58, 5089-5095.	1.9	71
40	Metal-organic frameworks derived transition metal phosphides for electrocatalytic water splitting. <i>Journal of Energy Chemistry</i> , 2022, 68, 494-520.	7.1	70
41	An inorganic-MOF-inorganic approach to ultrathin CuO decorated Cu-C hybrid nanorod arrays for an efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19176-19181.	5.2	65
42	Interweaving isomerism and isomerization of molecular chains. <i>Chemical Communications</i> , 2011, 47, 4156.	2.2	64
43	Drastic Enhancement of Catalytic Activity via Post-oxidation of a Porous Mn^{II} Triazolate Framework. <i>Chemistry - A European Journal</i> , 2014, 20, 11303-11307.	1.7	64
44	Metal-Free Molecular Perovskite High-Energetic Materials. <i>Crystal Growth and Design</i> , 2020, 20, 1891-1897.	1.4	64
45	Mixed-Lanthanide Porous Coordination Polymers Showing Range-Tunable Ratiometric Luminescence for O_{2} Sensing. <i>Inorganic Chemistry</i> , 2017, 56, 4238-4243.	1.9	63
46	A flexible porous Cu(ii) bis-imidazolate framework with ultrahigh concentration of active sites for efficient and recyclable CO ₂ capture. <i>Chemical Communications</i> , 2013, 49, 11728.	2.2	60
47	Flexible, Luminescent Metal-Organic Frameworks Showing Synergistic Solid-Solution Effects on Porosity and Sensitivity. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 16021-16025.	7.2	60
48	Optimizing the oxygen balance by changing the A-site cations in molecular perovskite high-energetic materials. <i>CrystEngComm</i> , 2018, 20, 7458-7463.	1.3	59
49	Tuning fluorocarbon adsorption in new isoreticular porous coordination frameworks for heat transformation applications. <i>Chemical Science</i> , 2015, 6, 2516-2521.	3.7	57
50	Hyperfine adjustment of flexible pore-surface pockets enables smart recognition of gas size and quadrupole moment. <i>Chemical Science</i> , 2017, 8, 7560-7565.	3.7	57
51	Manipulating the Architecture of Atomically Thin Transition Metal (Hydr)oxides for Enhanced Oxygen Evolution Catalysis. <i>ACS Nano</i> , 2018, 12, 1878-1886.	7.3	57
52	Molecule-based nonlinear optical switch with highly tunable on-off temperature using a dual solid solution approach. <i>Nature Communications</i> , 2020, 11, 2752.	5.8	57
53	Visualizing the distinctly different crystal-to-crystal structural dynamism and sorption behavior of interpenetration-direction isomeric coordination networks. <i>Chemical Science</i> , 2014, 5, 4755-4762.	3.7	56
54	A Hydrogen-Bonded yet Hydrophobic Porous Molecular Crystal for Molecular Sieving-Like Separation of Butane and Isobutane. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23322-23328.	7.2	49

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55	Structural Transition in the Perovskite-like Bimetallic Azido Coordination Polymers: (NMe ₄) ₂ [B ²⁺ ·B ³⁺ (N ₃) ₆] (B ²⁺ = Cr ³⁺ , Fe ³⁺ ; B ³⁺ = Na ⁺ , K ⁺). <i>Crystal Growth and Design</i> , 2014, 14, 3903-3909.	1.4	46
56	Interpolation between W Dopant and Co Vacancy in CoOOH for Enhanced Oxygen Evolution Catalysis. <i>Advanced Materials</i> , 2022, 34, e2104667.	11.1	45
57	Tunable cooperativity in a spin-crossover Hoffman-like metal-organic framework material by aromatic guests. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7830-7835.	2.7	44
58	Mesoporous Metal-Organic Frameworks with Exceptionally High Working Capacities for Adsorption Heat Transformation. <i>Advanced Materials</i> , 2018, 30, 1704350.	11.1	43
59	Highly Selective Recognition and Fluorescence Imaging of Adenosine Polyphosphates in Aqueous Solution. <i>Inorganic Chemistry</i> , 2013, 52, 4873-4879.	1.9	41
60	Giant anisotropic thermal expansion actuated by thermodynamically assisted reorientation of imidazoliums in a single crystal. <i>Nature Communications</i> , 2019, 10, 4805.	5.8	39
61	Flexibility of Metal-Organic Framework Tunable by Crystal Size at the Micrometer to Submillimeter Scale for Efficient Xylene Isomer Separation. <i>Research</i> , 2019, 2019, 9463719.	2.8	39
62	Copper(I) and Silver(I) 2-Methylimidazolates: Extended Isomerism, Isomerization, and Host-Guest Properties. <i>Inorganic Chemistry</i> , 2012, 51, 4772-4778.	1.9	38
63	A single-atom Cu ^{N₂} catalyst eliminates oxygen interference for electrochemical sensing of hydrogen peroxide in a living animal brain. <i>Chemical Science</i> , 2021, 12, 15045-15053.	3.7	36
64	Plastic Crystals with Polar Halochromate Anion: Thermosensitive Dielectrics Based upon Plastic Transition and Dipole Rotation. <i>Inorganic Chemistry</i> , 2016, 55, 11418-11425.	1.9	35
65	How Cobalt and Iron Doping Determine the Oxygen Evolution Electrocatalytic Activity of NiOOH. <i>Cell Reports Physical Science</i> , 2020, 1, 100077.	2.8	35
66	Controlling the flexibility and single-crystal to single-crystal interpenetration reconstitution of metal-organic frameworks. <i>Chemical Communications</i> , 2015, 51, 12665-12668.	2.2	32
67	A New Isomeric Porous Coordination Framework Showing Single-Crystal to Single-Crystal Structural Transformation and Preferential Adsorption of 1,3-Butadiene from C ₄ Hydrocarbons. <i>Crystal Growth and Design</i> , 2017, 17, 2166-2171.	1.4	31
68	Graphene-Like Hydrogen-Bonded Melamine-Cyanuric Acid Supramolecular Nanosheets as Pseudo-Porous Catalyst Support. <i>Advanced Materials</i> , 2021, 33, e2007368.	11.1	31
69	Fluorous Metal-Organic Frameworks with Unique Cage-in-Cage Structures Featuring Fluorophilic Pore Surfaces for Efficient C ₂ H ₂ /CO ₂ Separation. <i>CCS Chemistry</i> , 2022, 4, 3416-3425.	4.6	31
70	Nickel-4-(3,5-dicarboxyphenyl)-2,2,6,6-terpyridine Framework: Efficient Separation of Ethylene from Acetylene/Ethylene Mixtures with a High Productivity. <i>Inorganic Chemistry</i> , 2018, 57, 9489-9494.	1.9	30
71	Structural, energetic and dynamic insights into the abnormal xylene separation behavior of hierarchical porous crystal. <i>Scientific Reports</i> , 2015, 5, 11537.	1.6	29
72	A Hydrogen-Bonded yet Hydrophobic Porous Molecular Crystal for Molecular Sieving-Like Separation of Butane and Isobutane. <i>Angewandte Chemie</i> , 2020, 132, 23522-23528.	1.6	29

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73	Order-disorder phase transition in the first thiocyanate-bridged double perovskite-type coordination polymer: $[\text{NH}_4]_2[\text{NiCd}(\text{SCN})_6]$. CrystEngComm, 2016, 18, 4495-4498.	1.3	28
74	Fluorinated Biphenyldicarboxylate-Based Metal-Organic Framework Exhibiting Efficient Propyne/Propylene Separation. Inorganic Chemistry, 2020, 59, 4030-4036.	1.9	28
75	A Metal-Organic Framework with a Pore Size/Shape Suitable for Strong Binding and Close Packing of Methane. Angewandte Chemie, 2016, 128, 4752-4756.	1.6	27
76	New porous coordination polymers based on expanded pyridyl-dicarboxylate ligands and a paddle-wheel cluster. CrystEngComm, 2014, 16, 6325-6330.	1.3	25
77	Electrochemically Controlled Synthesis of Ultrathin Nickel Hydroxide Nanosheets for Electrocatalytic Oxygen Evolution. Inorganic Chemistry, 2021, 60, 3365-3374.	1.9	24
78	A Lanthanum Carboxylate Framework with Exceptional Stability and Highly Selective Adsorption of Gas and Liquid. Inorganic Chemistry, 2018, 57, 5013-5018.	1.9	23
79	Manipulating the assembled structure of atomically thin CoSe_2 nanomaterials for enhanced water oxidation catalysis. Nano Energy, 2019, 57, 371-378.	8.2	23
80	Molecular Dynamics, Phase Transition and Frequency-Tuned Dielectric Switch of an Ionic Co -Crystal. Angewandte Chemie, 2018, 130, 8164-8168.	1.6	21
81	Silver(I)-Based Molecular Perovskite Energetic Compounds with Exceptional Thermal Stability and Energetic Performance. Inorganic Chemistry, 2022, 61, 4143-4149.	1.9	20
82	Switching hydrogen bonds to readily interconvert two room-temperature long-term stable crystalline polymorphs in chiral molecular perovskites. Chemical Communications, 2019, 55, 11555-11558.	2.2	18
83	Non-d Metal Modulation of a Cobalt Imidazolate Framework for Excellent Electrocatalytic Oxygen Evolution in Neutral Media. Angewandte Chemie, 2019, 131, 145-149.	1.6	18
84	Confinement synthesis in porous molecule-based materials: a new opportunity for ultrafine nanostructures. Chemical Science, 2022, 13, 1569-1593.	3.7	18
85	Mild metal-organic-gel route for synthesis of stable sub-5-nm metal-organic framework nanocrystals. Nano Research, 2017, 10, 3621-3628.	5.8	17
86	Ion-Induced Delamination of Layered Bulk Metal-Organic Frameworks into Ultrathin Nanosheets for Boosting the Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 10554-10563.	3.2	17
87	Platinum-Ruthenium Single Atom Alloy as a Bifunctional Electrocatalyst toward Methanol and Hydrogen Oxidation Reactions. ACS Applied Materials & Interfaces, 2022, 14, 27814-27822.	4.0	17
88	Matching of Host-Guest Symmetry/Orientation and Molecular Dynamics in Two Double Perovskite-Like Azido Coordination Polymers. Inorganic Chemistry, 2017, 56, 9946-9953.	1.9	16
89	Thermal-induced reversible ferroelastic phase transition in a new bromethyl-substituted molecular rotor. Science China Chemistry, 2015, 58, 1137-1143.	4.2	15
90	Rapid separation of non-polar and weakly polar analytes with metal-organic framework MAF-5 coated capillary column. Talanta, 2016, 152, 283-287.	2.9	15

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91	Kinetic and mechanistic investigation for the copolymerization of CO ₂ and cyclohexene oxide catalyzed by zinc complexes. <i>Polymer Chemistry</i> , 2017, 8, 3632-3640.	1.9	15
92	Accurately metal-modulated bimetallic metal-organic frameworks as advanced trifunctional electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14682-14690.	5.2	15
93	A novel pillared-layer-type porous coordination polymer featuring three-dimensional pore system and high methane storage capacity. <i>Science China Chemistry</i> , 2016, 59, 970-974.	4.2	14
94	Tuning oxygen-sensing behaviour of a porous coordination framework by a guest fluorophore. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 1085-1090.	3.0	12
95	Four-step thermosensitive dielectric response arising from motionable low-symmetry ammonium confined in deformable supramolecular cages. <i>Journal of Materials Chemistry C</i> , 0, .	2.7	12
96	Two new polar coordination polymers with diamond networks: interpenetration and thermal phase transition. <i>CrystEngComm</i> , 2013, 15, 9530.	1.3	11
97	Octanuclear Cobalt(II) Cluster-Based Metal-Organic Framework with Caged Structure Exhibiting the Selective Adsorption of Ethane over Ethylene. <i>Inorganic Chemistry</i> , 2021, 60, 10596-10602.	1.9	11
98	Disclosing the active integration structure and robustness of a pseudo-tri-component electrocatalyst toward alkaline hydrogen evolution. <i>Journal of Energy Chemistry</i> , 2022, 72, 210-216.	7.1	11
99	Flexible, Luminescent Metal-Organic Frameworks Showing Synergistic Solid-Solution Effects on Porosity and Sensitivity. <i>Angewandte Chemie</i> , 2016, 128, 16255-16259.	1.6	9
100	Highly selective generation of singlet oxygen from dioxygen with atomically dispersed catalysts. <i>Chemical Science</i> , 2022, 13, 5606-5615.	3.7	9
101	Guest-containing supramolecular isomers of silver(<i>scp</i>) 3,5-dialkyl-1,2,4-triazolates: syntheses, structures, and structural transformation behaviours. <i>CrystEngComm</i> , 2015, 17, 8843-8849.	1.3	8
102	Syntheses, structures and gas sorption properties of two coordination polymers with a unique type of supramolecular isomerism. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 136-140.	3.0	8
103	A flexible, porous, cluster-based Zn-pyrazolate-dicarboxylate framework showing selective adsorption properties. <i>New Journal of Chemistry</i> , 2014, 38, 2002-2007.	1.4	7
104	Structural elucidation of new urinary tamoxifen metabolites by liquid chromatography quadrupole time-of-flight mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2014, 49, 570-578.	0.7	7
105	A flexible metal-organic framework with adaptive pores for high column-capacity gas chromatographic separation. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2777-2783.	3.0	7
106	Isostructural phase transition and tunable water rotation within a unique solid rotor system. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13176-13181.	2.7	7
107	Sulfur doping optimized intermediate energetics of FeCoOOH for enhanced oxygen evolution catalytic activity. <i>Cell Reports Physical Science</i> , 2021, 2, 100331.	2.8	7
108	Biodiversity Benefits for Size Modulation of Metal Nanoparticles to Achieve In Situ Semi-Oxidation toward Optimized Electrocatalytic Oxygen Evolution. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	7

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109	A Crystalline Supramolecular Rotor Functioned by Dual Ultrasmall Polar Rotators^{â€‹}. Chinese Journal of Chemistry, 2022, 40, 1917-1923.	2.6	7
110	Insights into the Molecular Dynamics of Quasi-Spherical (Chloromethyl)triethylammonium Confined in a Weakly Bound Ionic Cocrystal. Inorganic Chemistry, 2022, 61, 7201-7206.	1.9	6
111	Porous Metal Azolate Frameworks. , 2016, , 309-343.		3
112	Solid solutions of flexible hostâ€‹“guest supramolecules for tuning molecular motion and phase transitions. Chemical Communications, 2021, 57, 7292-7295.	2.2	3