

# Chun-Ting He

## List of Publications by Citations

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108  
papers

8,402  
citations

44  
h-index

91  
g-index

115  
ext. papers

10,561  
ext. citations

11.3  
avg, IF

6.16  
L-index

#	Paper	IF	Citations
108	Ultrathin metal-organic framework nanosheets for electrocatalytic oxygen evolution. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	1444
107	An Alkaline-Stable, Metal Hydroxide Mimicking Metal-Organic Framework for Efficient Electrocatalytic Oxygen Evolution. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8336-9	16.4	362
106	A general approach to cobalt-based homobimetallic phosphide ultrathin nanosheets for highly efficient oxygen evolution in alkaline media. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 893-899	35.4	342
105	Single Tungsten Atoms Supported on MOF-Derived N-Doped Carbon for Robust Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800396	24	302
104	Rational Design of Single Molybdenum Atoms Anchored on N-Doped Carbon for Effective Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 16086-16090	16.4	299
103	Structural transformation of highly active metal-organic framework electrocatalysts during the oxygen evolution reaction. <i>Nature Energy</i> , <b>2020</b> , 5, 881-890	62.3	280
102	Cage-Confinement Pyrolysis Route to Ultrasmall Tungsten Carbide Nanoparticles for Efficient Electrocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 5285-5288	16.4	274
101	Modular and Stepwise Synthesis of a Hybrid Metal-Organic Framework for Efficient Electrocatalytic Oxygen Evolution. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 1778-1781	16.4	273
100	Oriented electron transmission in polyoxometalate-metalloporphyrin organic framework for highly selective electroreduction of CO. <i>Nature Communications</i> , <b>2018</b> , 9, 4466	17.4	221
99	Exceptional Hydrophobicity of a Large-Pore Metal-Organic Zeolite. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7217-23	16.4	214
98	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general host-guest strategy. <i>Nature Chemistry</i> , <b>2020</b> , 12, 764-772	17.6	207
97	Electrochemical Exfoliation of Pillared-Layer Metal-Organic Framework to Boost the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 4632-4636	16.4	198
96	Monodentate hydroxide as a super strong yet reversible active site for CO <sub>2</sub> capture from high-humidity flue gas. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1011-1016	35.4	185
95	Extraction of nickel from NiFe-LDH into NiP@NiFe hydroxide as a bifunctional electrocatalyst for efficient overall water splitting. <i>Chemical Science</i> , <b>2018</b> , 9, 1375-1384	9.4	183
94	A porous coordination framework for highly sensitive and selective solid-phase microextraction of non-polar volatile organic compounds. <i>Chemical Science</i> , <b>2013</b> , 4, 351-356	9.4	166
93	Switchable guest molecular dynamics in a perovskite-like coordination polymer toward sensitive thermoresponsive dielectric materials. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 914-8	16.4	162
92	Accelerating water dissociation kinetics by isolating cobalt atoms into ruthenium lattice. <i>Nature Communications</i> , <b>2018</b> , 9, 4958	17.4	147

91	Photoinduction of Cu Single Atoms Decorated on UiO-66-NH for Enhanced Photocatalytic Reduction of CO to Liquid Fuels. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 19339-19345	16.4	138
90	Molecular Dynamics of Flexible Polar Cations in a Variable Confined Space: Toward Exceptional Two-Step Nonlinear Optical Switches. <i>Advanced Materials</i> , <b>2016</b> , 28, 5886-90	24	137
89	Ultrathin Transition Metal Dichalcogenide/3d Metal Hydroxide Hybridized Nanosheets to Enhance Hydrogen Evolution Activity. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801171	24	134
88	A Metal-Organic Framework with a Pore Size/Shape Suitable for Strong Binding and Close Packing of Methane. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 4674-8	16.4	111
87	Direct visualization of a guest-triggered crystal deformation based on a flexible ultramicroporous framework. <i>Nature Communications</i> , <b>2013</b> , 4, 2534	17.4	106
86	Engineering of Pore Geometry for Ultrahigh Capacity Methane Storage in Mesoporous Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13300-13303	16.4	106
85	Approaching the activity limit of CoSe for oxygen evolution via Fe doping and Co vacancy. <i>Nature Communications</i> , <b>2020</b> , 11, 1664	17.4	104
84	Isolated Ni Atoms Dispersed on Ru Nanosheets: High-Performance Electrocatalysts toward Hydrogen Oxidation Reaction. <i>Nano Letters</i> , <b>2020</b> , 20, 3442-3448	11.5	80
83	Above-room-temperature ferroelastic phase transition in a perovskite-like compound [N(CH <sub>3</sub> ) <sub>4</sub> ][Cd(N <sub>3</sub> ) <sub>3</sub> ]. <i>Chemical Communications</i> , <b>2014</b> , 50, 1989-91	5.8	77
82	Single-Atom Co-N Electrocatalyst Enabling Four-Electron Oxygen Reduction with Enhanced Hydrogen Peroxide Tolerance for Selective Sensing. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 16861-16867	16.4	77
81	Intermediate-sized molecular sieving of styrene from larger and smaller analogues. <i>Nature Materials</i> , <b>2019</b> , 18, 994-998	27	74
80	Non-3d Metal Modulation of a Cobalt Imidazolate Framework for Excellent Electrocatalytic Oxygen Evolution in Neutral Media. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 139-143	16.4	72
79	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> , <b>2015</b> , 3, 21849-21855	13	71
78	Enantioseparation of Au (PP) Cl Clusters with Intrinsically Chiral Cores. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 9059-9063	16.4	68
77	Rational Design of Single Molybdenum Atoms Anchored on N-Doped Carbon for Effective Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 16302-16306	3.6	66
76	New Zn-Aminotriazolate-Dicarboxylate Frameworks: Synthesis, Structures, and Adsorption Properties. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 2118-2123	3.5	64
75	Electrochemical Exfoliation of Pillared-Layer Metal-Organic Framework to Boost the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 4722-4726	3.6	63
74	Interweaving isomerism and isomerization of molecular chains. <i>Chemical Communications</i> , <b>2011</b> , 47, 4156-8	5.8	62

73	Molecular perovskite high-energetic materials. <i>Science China Materials</i> , <b>2018</b> , 61, 1123-1128	7.1	59
72	Photoinduced water oxidation by an organic ligand incorporated into the framework of a stable metal-organic framework. <i>Chemical Science</i> , <b>2016</b> , 7, 1070-1075	9.4	59
71	Drastic enhancement of catalytic activity via post-oxidation of a porous MnII triazolate framework. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 11303-7	4.8	55
70	Mixed-Lanthanide Porous Coordination Polymers Showing Range-Tunable Ratiometric Luminescence for O Sensing. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 4238-4243	5.1	52
69	Visualizing the distinctly different crystal-to-crystal structural dynamism and sorption behavior of interpenetration-direction isomeric coordination networks. <i>Chemical Science</i> , <b>2014</b> , 5, 4755-4762	9.4	50
68	A flexible porous Cu(II) bis-imidazolate framework with ultrahigh concentration of active sites for efficient and recyclable CO <sub>2</sub> capture. <i>Chemical Communications</i> , <b>2013</b> , 49, 11728-30	5.8	50
67	An inorganic-MOF-inorganic approach to ultrathin CuO decorated Cu <sup>I</sup> hybrid nanorod arrays for an efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 19176-19181	13	50
66	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> , <b>2017</b> , 139, 8086-8089	16.4	48
65	Water-Stable Europium 1,3,6,8-Tetrakis(4-carboxylphenyl)pyrene Framework for Efficient CH <sub>4</sub> /CO Separation. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 5089-5095	5.1	44
64	Tuning fluorocarbon adsorption in new isoreticular porous coordination frameworks for heat transformation applications. <i>Chemical Science</i> , <b>2015</b> , 6, 2516-2521	9.4	44
63	Structural Transition in the Perovskite-like Bimetallic Azido Coordination Polymers: (NMe <sub>4</sub> ) <sub>2</sub> [B <sub>2</sub> (N <sub>3</sub> ) <sub>6</sub> ] (B <sup>+</sup> = Cr <sup>3+</sup> , Fe <sup>3+</sup> ; B <sup>+</sup> = Na <sup>+</sup> , K <sup>+</sup> ). <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 3903-3909	3.5	44
62	Manipulating the Architecture of Atomically Thin Transition Metal (Hydr)oxides for Enhanced Oxygen Evolution Catalysis. <i>ACS Nano</i> , <b>2018</b> , 12, 1878-1886	16.7	43
61	Flexible, Luminescent Metal-Organic Frameworks Showing Synergistic Solid-Solution Effects on Porosity and Sensitivity. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 16021-16025	16.4	42
60	Highly selective recognition and fluorescence imaging of adenosine polyphosphates in aqueous solution. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 4873-9	5.1	41
59	Copper(I) and silver(I) 2-methylimidazolates: extended isomerism, isomerization, and host-guest properties. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 4772-8	5.1	36
58	Hyperfine adjustment of flexible pore-surface pockets enables smart recognition of gas size and quadrupole moment. <i>Chemical Science</i> , <b>2017</b> , 8, 7560-7565	9.4	34
57	Molecular Dynamics, Phase Transition and Frequency-Tuned Dielectric Switch of an Ionic Co-Crystal. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 8032-8036	16.4	33
56	Tunable cooperativity in a spin-crossover Hoffman-like metal-organic framework material by aromatic guests. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 7830-7835	7.1	31

55	Plastic Crystals with Polar Halochromate Anion: Thermosensitive Dielectrics Based upon Plastic Transition and Dipole Rotation. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 11418-11425	5.1	31
54	Metal-Free Molecular Perovskite High-Energetic Materials. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 1891-1897	3.7	30
53	Controlling the flexibility and single-crystal to single-crystal interpenetration reconstitution of metal-organic frameworks. <i>Chemical Communications</i> , <b>2015</b> , 51, 12665-8	5.8	29
52	Mesoporous Metal-Organic Frameworks with Exceptionally High Working Capacities for Adsorption Heat Transformation. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704350	24	29
51	Optimizing the oxygen balance by changing the A-site cations in molecular perovskite high-energetic materials. <i>CrystEngComm</i> , <b>2018</b> , 20, 7458-7463	3.3	29
50	Switchable Guest Molecular Dynamics in a Perovskite-Like Coordination Polymer toward Sensitive Thermoresponsive Dielectric Materials. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 928-932	3.6	28
49	Molecule-based nonlinear optical switch with highly tunable on-off temperature using a dual solid solution approach. <i>Nature Communications</i> , <b>2020</b> , 11, 2752	17.4	25
48	New porous coordination polymers based on expanded pyridyl-dicarboxylate ligands and a paddle-wheel cluster. <i>CrystEngComm</i> , <b>2014</b> , 16, 6325-6330	3.3	24
47	Structural, energetic, and dynamic insights into the abnormal xylene separation behavior of hierarchical porous crystal. <i>Scientific Reports</i> , <b>2015</b> , 5, 11537	4.9	24
46	Order-disorder phase transition in the first thiocyanate-bridged double perovskite-type coordination polymer: [NH <sub>4</sub> ] <sub>2</sub> [NiCd(SCN) <sub>6</sub> ]. <i>CrystEngComm</i> , <b>2016</b> , 18, 4495-4498	3.3	24
45	A New Isomeric Porous Coordination Framework Showing Single-Crystal to Single-Crystal Structural Transformation and Preferential Adsorption of 1,3-Butadiene from C <sub>4</sub> Hydrocarbons. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 2166-2171	3.5	22
44	Nickel-4P(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> , <b>2018</b> , 57, 9489-9494	5.1	22
43	Flexibility of Metal-Organic Framework Tunable by Crystal Size at the Micrometer to Submillimeter Scale for Efficient Xylene Isomer Separation. <i>Research</i> , <b>2019</b> , 2019, 9463719	7.8	21
42	A Metal-Organic Framework with a Pore Size/Shape Suitable for Strong Binding and Close Packing of Methane. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 4752-4756	3.6	21
41	A Lanthanum Carboxylate Framework with Exceptional Stability and Highly Selective Adsorption of Gas and Liquid. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 5013-5018	5.1	20
40	Fluorinated Biphenyldicarboxylate-Based Metal-Organic Framework Exhibiting Efficient Propyne/Propylene Separation. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 4030-4036	5.1	17
39	Giant anisotropic thermal expansion actuated by thermodynamically assisted reorientation of imidazoliums in a single crystal. <i>Nature Communications</i> , <b>2019</b> , 10, 4805	17.4	17
38	A Hydrogen-Bonded yet Hydrophobic Porous Molecular Crystal for Molecular-Sieving-like Separation of Butane and Isobutane. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 23322-23328	16.4	16

37	Manipulating the assembled structure of atomically thin CoSe <sub>2</sub> nanomaterials for enhanced water oxidation catalysis. <i>Nano Energy</i> , <b>2019</b> , 57, 371-378	17.1	16
36	How Cobalt and Iron Doping Determine the Oxygen Evolution Electrocatalytic Activity of NiOOH. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100077	6.1	15
35	A novel pillared-layer-type porous coordination polymer featuring three-dimensional pore system and high methane storage capacity. <i>Science China Chemistry</i> , <b>2016</b> , 59, 970-974	7.9	14
34	Molecular Dynamics, Phase Transition and Frequency-Tuned Dielectric Switch of an Ionic Co-Crystal. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 8164-8168	3.6	14
33	Matching of Host-Guest Symmetry/Orientation and Molecular Dynamics in Two Double Perovskite-Like Azido Coordination Polymers. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 9946-9953	5.1	14
32	Kinetic and mechanistic investigation for the copolymerization of CO <sub>2</sub> and cyclohexene oxide catalyzed by trizinc complexes. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 3632-3640	4.9	13
31	Mild metal-organic-gel route for synthesis of stable sub-5-nm metal-organic framework nanocrystals. <i>Nano Research</i> , <b>2017</b> , 10, 3621-3628	10	13
30	Switching hydrogen bonds to readily interconvert two room-temperature long-term stable crystalline polymorphs in chiral molecular perovskites. <i>Chemical Communications</i> , <b>2019</b> , 55, 11555-11558	5.8	12
29	Thermal-induced reversible ferroelastic phase transition in a new bromethyl-substituted molecular rotor. <i>Science China Chemistry</i> , <b>2015</b> , 58, 1137-1143	7.9	12
28	Tuning oxygen-sensing behaviour of a porous coordination framework by a guest fluorophore. <i>Inorganic Chemistry Frontiers</i> , <b>2015</b> , 2, 1085-1090	6.8	11
27	Rapid separation of non-polar and weakly polar analytes with metal-organic framework MAF-5 coated capillary column. <i>Talanta</i> , <b>2016</b> , 152, 283-7	6.2	11
26	Non-3d Metal Modulation of a Cobalt Imidazolate Framework for Excellent Electrocatalytic Oxygen Evolution in Neutral Media. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 145-149	3.6	11
25	Two new polar coordination polymers with diamond networks: interpenetration and thermal phase transition. <i>CrystEngComm</i> , <b>2013</b> , 15, 9530	3.3	10
24	A Hydrogen-Bonded yet Hydrophobic Porous Molecular Crystal for Molecular-Sieving-like Separation of Butane and Isobutane. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 23522-23528	3.6	10
23	Ion-Induced Delamination of Layered Bulk Metal-Organic Frameworks into Ultrathin Nanosheets for Boosting the Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 10554-10563	8.3	9
22	Syntheses, structures and gas sorption properties of two coordination polymers with a unique type of supramolecular isomerism. <i>Inorganic Chemistry Frontiers</i> , <b>2015</b> , 2, 136-140	6.8	8
21	Guest-containing supramolecular isomers of silver(I) 3,5-dialkyl-1,2,4-triazolates: syntheses, structures, and structural transformation behaviours. <i>CrystEngComm</i> , <b>2015</b> , 17, 8843-8849	3.3	8
20	Structural elucidation of new urinary tamoxifen metabolites by liquid chromatography quadrupole time-of-flight mass spectrometry. <i>Journal of Mass Spectrometry</i> , <b>2014</b> , 49, 570-8	2.2	7

19	Interpolation between W Dopant and Co Vacancy in CoOOH for Enhanced Oxygen Evolution Catalysis. <i>Advanced Materials</i> , <b>2021</b> , e2104667	24	7
18	Flexible, Luminescent Metal-Organic Frameworks Showing Synergistic Solid-Solution Effects on Porosity and Sensitivity. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 16255-16259	3.6	7
17	Electrochemically Controlled Synthesis of Ultrathin Nickel Hydroxide Nanosheets for Electrocatalytic Oxygen Evolution. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 3365-3374	5.1	7
16	A flexible, porous, cluster-based Zn-pyrazolate-dicarboxylate framework showing selective adsorption properties. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 2002-2007	3.6	6
15	Metal-organic frameworks derived transition metal phosphides for electrocatalytic water splitting. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 68, 494-520	12	6
14	Octanuclear Cobalt(II) Cluster-Based Metal-Organic Framework with Caged Structure Exhibiting the Selective Adsorption of Ethane over Ethylene. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 10596-10602	5.1	6
13	Fluorous Metal-Organic Frameworks with Unique Cage-in-Cage Structures Featuring Fluorophilic Pore Surfaces for Efficient C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> Separation. <i>CCS Chemistry</i> , 1-10	7.2	5
12	Graphene-Like Hydrogen-Bonded Melamine-Cyanuric Acid Supramolecular Nanosheets as Pseudo-Porous Catalyst Support. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007368	24	5
11	Sulfur doping optimized intermediate energetics of FeCoOOH for enhanced oxygen evolution catalytic activity. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100331	6.1	5
10	A flexible metal-organic framework with adaptive pores for high column-capacity gas chromatographic separation. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 2777-2783	6.8	5
9	Accurately metal-modulated bimetallic metal-organic frameworks as advanced trifunctional electrocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 14682-14690	13	5
8	Isostructural phase transition and tunable water rotation within a unique solid rotor system. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 13176-13181	7.1	4
7	Four-step thermosensitive dielectric response arising from motionable low-symmetry ammonium confined in deformable supramolecular cages. <i>Journal of Materials Chemistry C</i> ,	7.1	4
6	A single-atom Cu-N catalyst eliminates oxygen interference for electrochemical sensing of hydrogen peroxide in a living animal brain.. <i>Chemical Science</i> , <b>2021</b> , 12, 15045-15053	9.4	3
5	Confinement synthesis in porous molecule-based materials: a new opportunity for ultrafine nanostructures.. <i>Chemical Science</i> , <b>2022</b> , 13, 1569-1593	9.4	1
4	Porous Metal Azolate Frameworks <b>2016</b> , 309-343		1
3	Solid solutions of flexible host-guest supramolecules for tuning molecular motion and phase transitions. <i>Chemical Communications</i> , <b>2021</b> , 57, 7292-7295	5.8	1
2	Biodiversity Benefits for Size Modulation of Metal Nanoparticles to Achieve In Situ Semi-Oxidation toward Optimized Electrocatalytic Oxygen Evolution. <i>Advanced Functional Materials</i> , 2202119	15.6	1

- 1 Silver(I)-Based Molecular Perovskite Energetic Compounds with Exceptional Thermal Stability and Energetic Performance.. *Inorganic Chemistry*, **2022**, 61, 4143-4149

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