

Hui-min Wen

List of Publications by Year in descending order

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62
papers

5,486
citations

117571

34
h-index

128225

60
g-index

64
all docs

64
docs citations

64
times ranked

6088
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging Multifunctional Metal-Organic Framework Materials. <i>Advanced Materials</i> , 2016, 28, 8819-8860.	11.1	1,227
2	Porous Metal-Organic Frameworks for Gas Storage and Separation: What, How, and Why?. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3468-3479.	2.1	505
3	A Porous Metal-Organic Framework with Dynamic Pyrimidine Groups Exhibiting Record High Methane Storage Working Capacity. <i>Journal of the American Chemical Society</i> , 2014, 136, 6207-6210.	6.6	311
4	An Ideal Molecular Sieve for Acetylene Removal from Ethylene with Record Selectivity and Productivity. <i>Advanced Materials</i> , 2017, 29, 1704210.	11.1	310
5	Porous Metal-Organic Frameworks: Promising Materials for Methane Storage. <i>CheM</i> , 2016, 1, 557-580.	5.8	297
6	A Chemically Stable Hofmann-Type Metal-Organic Framework with Sandwich-Like Binding Sites for Benchmark Acetylene Capture. <i>Advanced Materials</i> , 2020, 32, e1908275.	11.1	236
7	Selective Ethane/Ethylene Separation in a Robust Microporous Hydrogen-Bonded Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 633-640.	6.6	183
8	Multifunctional lanthanide coordination polymers. <i>Progress in Polymer Science</i> , 2015, 48, 40-84.	11.8	176
9	Porous metal-organic frameworks with Lewis basic nitrogen sites for high-capacity methane storage. <i>Energy and Environmental Science</i> , 2015, 8, 2504-2511.	15.6	126
10	A Microporous Metal-Organic Framework with Lewis Basic Nitrogen Sites for High C ₂ H ₂ Storage and Significantly Enhanced C ₂ H ₂ /CO ₂ Separation at Ambient Conditions. <i>Inorganic Chemistry</i> , 2016, 55, 7214-7218.	1.9	124
11	A Metal-Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15183-15188.	7.2	124
12	A metal-organic framework with suitable pore size and dual functionalities for highly efficient post-combustion CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3128-3134.	5.2	124
13	Dense Packing of Acetylene in a Stable and Low-Cost Metal-Organic Framework for Efficient C ₂ H ₂ /CO ₂ Separation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25068-25074.	7.2	116
14	A Metal-Organic Framework with Optimized Porosity and Functional Sites for High Gravimetric and Volumetric Methane Storage Working Capacities. <i>Advanced Materials</i> , 2018, 30, e1704792.	11.1	109
15	A Metal-Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. <i>Angewandte Chemie</i> , 2018, 130, 15403-15408.	1.6	98
16	Redox-Modulated Stepwise Photochromism in a Ruthenium Complex with Dual Dithienylethene-Acetylides. <i>Journal of the American Chemical Society</i> , 2012, 134, 16059-16067.	6.6	85
17	Electrical conductance study on 1,3-butadiyne-linked dinuclear ruthenium(ii) complexes within single molecule break junctions. <i>Chemical Science</i> , 2013, 4, 2471.	3.7	81
18	Fine-tuning of nano-traps in a stable metal-organic framework for highly efficient removal of propyne from propylene. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6931-6937.	5.2	74

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19	High acetylene/ethylene separation in a microporous zinc(<i>znc</i>) metal-organic framework with low binding energy. <i>Chemical Communications</i> , 2016, 52, 1166-1169.	2.2	67
20	A microporous metal-organic framework with rare <i>ltv</i> topology for highly selective C_2H_2/C_2H_4 separation at room temperature. <i>Chemical Communications</i> , 2015, 51, 5610-5613.	2.2	61
21	Spectroscopic and Luminescence Studies on Square-Planar Platinum(II) Complexes with Anionic Tridentate 3-Bis(2-pyridylimino)isoindoline Derivatives. <i>Inorganic Chemistry</i> , 2010, 49, 2210-2221.	1.9	59
22	A novel anion-pillared metal-organic framework for highly efficient separation of acetylene from ethylene and carbon dioxide. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9248-9255.	5.2	55
23	An europium functionalized carbon dot-based fluorescence test paper for visual and quantitative point-of-care testing of anthrax biomarker. <i>Talanta</i> , 2020, 220, 121377.	2.9	49
24	Reversing C_2H_2 adsorption selectivity in an ultramicroporous metal-organic framework platform. <i>Chemical Communications</i> , 2019, 55, 11354-11357.	2.2	46
25	Hierarchical Plasmonic-Fluorescent Labels for Highly Sensitive Lateral Flow Immunoassay with Flexible Dual-Modal Switching. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 58149-58160.	4.0	44
26	Gold(I)-Coordination Triggered Multistep and Multiple Photochromic Reactions in Multi-Dithienylethene (DTE) Systems. <i>Inorganic Chemistry</i> , 2012, 51, 1933-1942.	1.9	43
27	Efficient photocatalytic hydrogen evolution with end-group-functionalized cobaloxime catalysts in combination with graphite-like C_3N_4 . <i>RSC Advances</i> , 2014, 4, 18853-18861.	1.7	42
28	Efficient [FeFe] hydrogenase mimic dyads covalently linking to iridium photosensitizer for photocatalytic hydrogen evolution. <i>Dalton Transactions</i> , 2012, 41, 13899.	1.6	41
29	Efficient photo-driven hydrogen evolution by binuclear nickel catalysts of different coordination in noble-metal-free systems. <i>Dalton Transactions</i> , 2013, 42, 8684.	1.6	40
30	A porous metal-organic framework with an elongated anthracene derivative exhibiting a high working capacity for the storage of methane. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11516.	5.2	40
31	Solution-processed OLEDs based on phosphorescent $PtAu_2$ complexes with phenothiazine-functionalized acetylides. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6096-6103.	2.7	39
32	Electrochemical, Spectroscopic, and Theoretical Studies on Diethynyl Ligand Bridged Ruthenium Complexes with 1,3-Bis(2-pyridylimino)isoindolate. <i>Organometallics</i> , 2014, 33, 4738-4746.	1.1	36
33	A Fluorinated Metal-Organic Framework for High Methane Storage at Room Temperature. <i>Crystal Growth and Design</i> , 2016, 16, 3395-3399.	1.4	36
34	Chemically Stable Hafnium-Based Metal-Organic Framework for Highly Efficient C_2H_6/C_2H_4 Separation under Humid Conditions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18792-18799.	4.0	34
35	Compact Magneto-Fluorescent Colloids by Hierarchical Assembly of Dual-Components in Radial Channels for Sensitive Point-of-Care Immunoassay. <i>Small</i> , 2021, 17, e2100862.	5.2	34
36	Unexpected current-voltage characteristics of mechanically modulated atomic contacts with the presence of molecular junctions in an electrochemically assisted-MCJ. <i>Nano Research</i> , 2016, 9, 560-570.	5.8	32

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37	Current Status of Microporous Metal-Organic Frameworks for Hydrocarbon Separations. <i>Topics in Current Chemistry</i> , 2019, 377, 33.	3.0	31
38	Highly Enhanced Gas Uptake and Selectivity via Incorporating Methoxy Groups into a Microporous Metal-Organic Framework. <i>Crystal Growth and Design</i> , 2017, 17, 2172-2177.	1.4	26
39	Photocatalytic hydrogen evolution by two comparable [FeFe]-hydrogenase mimics assembled to the surface of ZnS. <i>Applied Organometallic Chemistry</i> , 2014, 28, 267-273.	1.7	25
40	Modulating Stepwise Photochromism in Platinum(II) Complexes with Dual Dithienylethene-Acetylides by a Progressive Red Shift of Ring-Closure Absorption. <i>Inorganic Chemistry</i> , 2013, 52, 12511-12520.	1.9	24
41	Multistate and Multicolor Photochromism through Selective Cycloreversion in Asymmetric Platinum(II) Complexes with Two Different Dithienylethene-Acetylides. <i>Inorganic Chemistry</i> , 2015, 54, 11511-11519.	1.9	24
42	Luminescent square-planar platinum(ii) complexes with tridentate 3-bis(2-pyridylimino)isoindoline and monodentate N-heterocyclic ligands. <i>Dalton Transactions</i> , 2011, 40, 6929.	1.6	21
43	Multistate Photochromism in a Ruthenium Complex with Dithienylethene-Acetylide. <i>Organometallics</i> , 2013, 32, 1759-1765.	1.1	20
44	Ratiometric fluorometric and visual determination of cyanide based on the use of carbon dots and gold nanoclusters. <i>Mikrochimica Acta</i> , 2019, 186, 809.	2.5	20
45	Pyridyl- and pyrimidyl-phosphine-substituted [FeFe]-hydrogenase mimics: Synthesis, characterization and properties. <i>Journal of Organometallic Chemistry</i> , 2014, 767, 46-53.	0.8	19
46	Hollow FeNi/NiFe ₂ O ₄ -Codoped Carbon Composite Nanorods for Electromagnetic Wave Absorption. <i>ACS Applied Nano Materials</i> , 2022, 5, 3406-3414.	2.4	19
47	Metal Nanocluster-Metal Organic Framework-Polymer Hybrid Nanomaterials for Improved Hydrogen Detection. <i>Small</i> , 2022, 18, e2200634.	5.2	19
48	Hydrogen photogeneration catalyzed by a cobalt complex of a pentadentate aminopyridine-based ligand. <i>New Journal of Chemistry</i> , 2015, 39, 1734-1741.	1.4	16
49	NiCo@NPC@CF nanocomposites derived from NiCo-MOF/cotton for high-performance electromagnetic wave absorption. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8310-8320.	2.7	16
50	Dense Packing of Acetylene in a Stable and Low-Cost Metal-Organic Framework for Efficient C ₂ H ₂ /CO ₂ Separation. <i>Angewandte Chemie</i> , 0, , .	1.6	14
51	Syntheses, characterization and electrochemical and spectroscopic properties of ruthenium-iron complexes of 2,3,5,6-tetrakis(2-pyridyl)pyrazine and ferrocene-acetylide ligands. <i>Dalton Transactions</i> , 2016, 45, 10620-10629.	1.6	12
52	A Microporous Titanate-Based Metal-Organic Framework for Efficient Separation of Acetylene from Carbon Dioxide. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021, 647, 1250-1253.	0.6	12
53	Bimetal-organic frameworks derived tuneable Co nanoparticles embedded in porous nitrogen-doped carbon nanorods as high-performance electromagnetic wave absorption materials. <i>Journal of Materials Chemistry C</i> , 2021, 9, 7302-7309.	2.7	12
54	One-pot synthesis of highly luminescent N-acetyl-cysteine-capped CdTe quantum dots and their size effect on the detection of glutathione. <i>New Journal of Chemistry</i> , 2018, 42, 15743-15749.	1.4	10

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55	A novel expanded metal-organic framework for balancing volumetric and gravimetric methane storage working capacities. <i>Chemical Communications</i> , 2020, 56, 13117-13120.	2.2	9
56	Efficient Synthetic Approaches To Access Ruthenium(II) Complexes with 2-(Trimethylsilyl)ethyl- or Acetyl-Protected Terpyridine-Thiols. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1784-1791.	1.0	8
57	Electro- and photocatalytic hydrogen evolution by a cobalt complex based on a tripodal iminopyridine ligand. <i>Polyhedron</i> , 2014, 81, 639-645.	1.0	7
58	Photoswitchable electrochemical behaviour of a [FeFe] hydrogenase model with a dithienylethene derivative. <i>Dalton Transactions</i> , 2012, 41, 11813.	1.6	6
59	Hydrogen Bubble-Directed Tubular Structure: A Novel Mechanism to Facilely Synthesize Nanotube Arrays with Controllable Wall Thickness. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5418-5424.	4.0	6
60	Synthesis, structures and electrochemistry studies of $2\text{Fe}_2\text{S}_2\text{Fe}(\text{S}_2\text{N})_2$ models for H-cluster of [FeFe]-hydrogenase. <i>Dalton Transactions</i> , 2010, 39, 9484.	1.6	4
61	Heptacarbonylbis($\frac{1}{4}$ -propane-1,3-dithiolato)triiron(I,II) ($2\text{Fe}(\text{S}_2\text{N})_2$). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, m124-m124.	0.2	2
62	Simultaneous Enhancement of Near-Infrared Emission and Dye Photodegradation in a Racemic Aspartic Acid Compound via Metal-Ion Modification. <i>ACS Omega</i> , 2019, 4, 19136-19144.	1.6	0