

# Yi-Chao Huang

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

3,171  
citations

218677

26  
h-index

175258

52  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3075  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein Chemical Synthesis by Ligation of Peptide Hydrazides. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7645-7649.	13.8	613
2	Atomically engineering activation sites onto metallic 1T-MoS <sub>2</sub> catalysts for enhanced electrochemical hydrogen evolution. <i>Nature Communications</i> , 2019, 10, 982.	12.8	311
3	Nitrogen-Doped Porous Molybdenum Carbide and Phosphide Hybrids on a Carbon Matrix as Highly Effective Electrocatalysts for the Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2018, 8, 1701601.	19.5	215
4	Quasi-Racemic X-ray Structures of K27-Linked Ubiquitin Chains Prepared by Total Chemical Synthesis. <i>Journal of the American Chemical Society</i> , 2016, 138, 7429-7435.	13.7	173
5	RNA Display Methods for the Discovery of Bioactive Macrocycles. <i>Chemical Reviews</i> , 2019, 119, 10360-10391.	47.7	160
6	Development of New Thioester Equivalents for Protein Chemical Synthesis. <i>Accounts of Chemical Research</i> , 2013, 46, 2475-2484.	15.6	150
7	Irreversible Site-Specific Hydrazinolysis of Proteins by Use of Sortase. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2198-2202.	13.8	122
8	Synthesis of Autophagosomal Marker Protein LC3 under Detergent-Free Conditions. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4858-4862.	13.8	92
9	Ligation of Expressed Protein $\epsilon$ -Hydrazides via Genetic Incorporation of an $\epsilon$ -Hydroxy Acid. <i>ACS Chemical Biology</i> , 2012, 7, 1015-1022.	3.4	80
10	Chemical synthesis of proteins using hydrazide intermediates. <i>National Science Review</i> , 2016, 3, 107-116.	9.5	73
11	Monomer/Oligomer Quasi-Racemic Protein Crystallography. <i>Journal of the American Chemical Society</i> , 2016, 138, 14497-14502.	13.7	72
12	Polyoxometalate-Based Photoactive Hybrid: Uncover the First Crystal Structure of Covalently Linked Hexavanadate-Porphyrin Molecule. <i>Inorganic Chemistry</i> , 2020, 59, 2575-2583.	4.0	66
13	Synthesis of $\epsilon$ - and $\delta$ -Ubiquitin by One-Pot Ligation and Metal-Free Desulfurization. <i>Chemistry - A European Journal</i> , 2016, 22, 7623-7628.	3.3	65
14	De novo macrocyclic peptides that specifically modulate Lys48-linked ubiquitin chains. <i>Nature Chemistry</i> , 2019, 11, 644-652.	13.6	63
15	Cysteine-Aminoethylation-Assisted Chemical Ubiquitination of Recombinant Histones. <i>Journal of the American Chemical Society</i> , 2019, 141, 3654-3663.	13.7	62
16	Fine Tuning Electronic Structure of Catalysts through Atomic Engineering for Enhanced Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2018, 8, 1800789.	19.5	59
17	Light-Induced Efficient Hydroxylation of Benzene to Phenol by Quinolinium and Polyoxovanadate-Based Supramolecular Catalysts. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13310-13316.	13.8	52
18	Genetically encoded alkenyl-pyrrolysine analogues for thiol-ene reaction mediated site-specific protein labeling. <i>Chemical Science</i> , 2012, 3, 2766.	7.4	45

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19	A semisynthetic Atg3 reveals that acetylation promotes Atg3 membrane binding and Atg8 lipidation. <i>Nature Communications</i> , 2017, 8, 14846.	12.8	43
20	Thiol-ene radical reaction mediated site-specific protein labeling via genetic incorporation of an alkynyl-lysine analogue. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 2624.	2.8	39
21	Chemical synthesis of crystalline proteins. <i>Science China Chemistry</i> , 2015, 58, 1779-1781.	8.2	39
22	Iron Hydroxide-Modified Nickel Hydroxylphosphate Single-Wall Nanotubes as Efficient Electrocatalysts for Oxygen Evolution Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 9407-9414.	8.0	38
23	Facile synthesis of C-terminal peptide hydrazide and thioester of ANY-ESO-1 (A39-A68) from an Fmoc-hydrazine 2-chlorotrityl chloride resin. <i>Tetrahedron</i> , 2014, 70, 2951-2955.	1.9	37
24	The proton-controlled synthesis of unprecedented diol functionalized Anderson-type POMs. <i>Chemical Communications</i> , 2016, 52, 2378-2381.	4.1	33
25	Single-Atom Mn Active Site in a Triol-Stabilized $\text{I}^{2-}$ -Anderson Manganohexamolybdate for Enhanced Catalytic Activity towards Adipic Acid Production. <i>Catalysts</i> , 2018, 8, 121.	3.5	26
26	$\text{I}^{2-}$ - $\{\text{Cr}[\text{RC}(\text{CH}_2)_3\text{O}]_2\text{Mo}_6\text{O}_{18}\}^{3-}$ : the first organically-functionalized $\text{I}^{2-}$ isomer of Anderson-type polyoxometalates. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1215-1218.	6.0	25
27	Accelerated Fmoc solid-phase synthesis of peptides with aggregation-disrupting backbones. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 1500-1506.	2.8	24
28	Hmb <sup>off/on</sup> as a switchable thiol protecting group for native chemical ligation. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 4194-4198.	2.8	22
29	Chemical Synthesis of Integral Membrane Proteins: Methods and Applications. <i>Israel Journal of Chemistry</i> , 2011, 51, 940-952.	2.3	19
30	Polyoxovanadate-iodobodipy supramolecular assemblies: new agents for high efficiency cancer photochemotherapy. <i>Chemical Communications</i> , 2020, 56, 2869-2872.	4.1	18
31	Tosylation of alcohols: an effective strategy for the functional group transformation of organic derivatives of polyoxometalates. <i>Scientific Reports</i> , 2017, 7, 12523.	3.3	17
32	A Series of Weakley-type Polyoxomolybdates: Synthesis, Characterization, and Magnetic Properties by a Combined Experimental and Theoretical Approach. <i>Inorganic Chemistry</i> , 2018, 57, 963-969.	4.0	16
33	Affinity Maturation of Macrocyclic Peptide Modulators of Lys48-Linked Diubiquitin by a Twofold Strategy. <i>Chemistry - A European Journal</i> , 2020, 26, 8022-8027.	3.3	15
34	$[\text{V}_4\text{Mo}_3\text{O}_{14}(\text{NAr})_3(\frac{1}{4}\text{-NAr})_3]^{2-}$ : the first polyarylimido-stabilized molybdovanadate cluster. <i>Chemical Communications</i> , 2017, 53, 2551-2554.	4.1	13
35	One-Pot <i>In Vitro</i> Ribosomal Synthesis of Macrocyclic Depsipeptides. <i>Journal of the American Chemical Society</i> , 2021, 143, 4741-4750.	13.7	13
36	Facile solid-phase synthesis of PNA-peptide conjugates using pNZ-protected PNA monomers. <i>Organic Chemistry Frontiers</i> , 2014, 1, 1050-1054.	4.5	12

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37	Buildup of Redox-Responsive Hybrid from Polyoxometalate and Redox-Active Conducting Oligomer: Its Self-Assemblies with Controllable Morphologies. <i>Chemistry - A European Journal</i> , 2017, 23, 14860-14865.	3.3	11
38	Chemoenzymatic Posttranslational Modification Reactions for the Synthesis of $\hat{\Gamma}$ [CH <sub>2</sub> NH]-Containing Peptides. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 684-688.	13.8	11
39	De novo macrocyclic peptides dissect energy coupling of a heterodimeric ABC transporter by multimode allosteric inhibition. <i>ELife</i> , 2021, 10, .	6.0	10
40	Thiol-assisted one-pot synthesis of peptide/protein C-terminal thioacids from peptide/protein hydrazides at neutral conditions. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 9413-9418.	2.8	9
41	Total synthesis of mambalgin <sup>1/2/3</sup> by two-segment hydrazide-based native chemical ligation. <i>Journal of Peptide Science</i> , 2016, 22, 320-326.	1.4	9
42	Ubiquitin 7-amino-4-carbamoylmethylcoumarin as an improved fluorogenic substrate for deubiquitinating enzymes. <i>Tetrahedron</i> , 2016, 72, 4085-4090.	1.9	8
43	Chemical Synthesis of K48-Linked Diubiquitin by Incorporation of a Lysine-Linked Auxiliary Handle. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 2665-2670.	2.4	7
44	Standing out from the crowd. <i>Nature Chemistry</i> , 2016, 8, 101-102.	13.6	6
45	KAHA Ligation at Serine. <i>ChemBioChem</i> , 2016, 17, 28-30.	2.6	3
46	Chemical peptide macrolactonization via intramolecular $\text{S} \rightarrow \text{O}$ acyl transfer. <i>Peptide Science</i> , 2022, 114, .	1.8	2
47	Chemoenzymatic Posttranslational Modification Reactions for the Synthesis of $\hat{\Gamma}$ [CH <sub>2</sub> NH]-Containing Peptides. <i>Angewandte Chemie</i> , 2020, 132, 694-698.	2.0	1
48	Light-Induced Efficient Hydroxylation of Benzene to Phenol by Quinolinium and Polyoxovanadate-Based Supramolecular Catalysts. <i>Angewandte Chemie</i> , 2021, 133, 13422-13428.	2.0	1