Yi-Chao Huang

List of Publications by Citations

49 papers	2,318 citations	24 h-index	48 g-index
55 ext. papers	2,759 ext. citations	10 avg, IF	5.09 L-index

#	Paper	IF	Citations
49	Protein chemical synthesis by ligation of peptide hydrazides. *Angewandte Chemie - International Edition*, **2011**, 50, 7645-9	16.4	490
48	Atomically engineering activation sites onto metallic 1T-MoS catalysts for enhanced electrochemical hydrogen evolution. *Nature Communications*, **2019**, 10, 982	17.4	180
47	Nitrogen-Doped Porous Molybdenum Carbide and Phosphide Hybrids on a Carbon Matrix as Highly Effective Electrocatalysts for the Hydrogen Evolution Reaction. *Advanced Energy Materials*, **2018**, 8, 1701601	21.8	147
46	Development of new thioester equivalents for protein chemical synthesis. *Accounts of Chemical Research*, **2013**, 46, 2475-84	24.3	141
45	Quasi-Racemic X-ray Structures of K27-Linked Ubiquitin Chains Prepared by Total Chemical Synthesis. *Journal of the American Chemical Society*, **2016**, 138, 7429-35	16.4	135
44	Protein Chemical Synthesis by Ligation of Peptide Hydrazides. *Angewandte Chemie*, **2011**, 123, 7787-7791	3.6	112
43	Irreversible site-specific hydrazinolysis of proteins by use of sortase. *Angewandte Chemie - International Edition*, **2014**, 53, 2198-202	16.4	97
42	RNA Display Methods for the Discovery of Bioactive Macrocycles. *Chemical Reviews*, **2019**, 119, 10360-10391	68.1	82
41	Synthesis of autophagosomal marker protein LC3-II under detergent-free conditions. *Angewandte Chemie - International Edition*, **2013**, 52, 4858-62	16.4	81
40	Ligation of expressed protein α-hydrazides via genetic incorporation of an α-hydroxy acid. *ACS Chemical Biology*, **2012**, 7, 1015-22	4.9	61
39	Monomer/Oligomer Quasi-Racemic Protein Crystallography. *Journal of the American Chemical Society*, **2016**, 138, 14497-14502	16.4	60
38	Chemical synthesis of proteins using hydrazide intermediates. *National Science Review*, **2016**, 3, 107-116	10.8	55
37	Synthesis of l- and d-Ubiquitin by One-Pot Ligation and Metal-Free Desulfurization. *Chemistry - A European Journal*, **2016**, 22, 7623-8	4.8	48
36	Genetically encoded alkenyl-pyrrolysine analogues for thiol-ene reaction mediated site-specific protein labeling. *Chemical Science*, **2012**, 3, 2766	9.4	43
35	De novo macrocyclic peptides that specifically modulate Lys48-linked ubiquitin chains. *Nature Chemistry*, **2019**, 11, 644-652	17.6	40
34	Chemical synthesis of crystalline proteins. *Science China Chemistry*, **2015**, 58, 1779-1781	7.9	38
33	Fine Tuning Electronic Structure of Catalysts through Atomic Engineering for Enhanced Hydrogen Evolution. *Advanced Energy Materials*, **2018**, 8, 1800789	21.8	38

32	Cysteine-Aminoethylation-Assisted Chemical Ubiquitination of Recombinant Histones. *Journal of the American Chemical Society*, **2019**, 141, 3654-3663	16.4	36
31	Thiol-yne radical reaction mediated site-specific protein labeling via genetic incorporation of an alkynyl-L-lysine analogue. *Organic and Biomolecular Chemistry*, **2013**, 11, 2624-9	3.9	34
30	A semisynthetic Atg3 reveals that acetylation promotes Atg3 membrane binding and Atg8 lipidation. *Nature Communications*, **2017**, 8, 14846	17.4	31
29	Iron Hydroxide-Modified Nickel Hydroxylphosphate Single-Wall Nanotubes as Efficient Electrocatalysts for Oxygen Evolution Reactions. *ACS Applied Materials & Interfaces*, **2018**, 10, 9407-9414	9.5	28
28	Polyoxometalate-Based Photoactive Hybrid: Uncover the First Crystal Structure of Covalently Linked Hexavanadate-Porphyrin Molecule. *Inorganic Chemistry*, **2020**, 59, 2575-2583	5.1	27
27	Facile synthesis of C-terminal peptide hydrazide and thioester of NY-ESO-1 (A39-A68) from an Fmoc-hydrazine 2-chlorotrityl chloride resin. *Tetrahedron*, **2014**, 70, 2951-2955	2.4	27
26	The proton-controlled synthesis of unprecedented diol functionalized Anderson-type POMs. *Chemical Communications*, **2016**, 52, 2378-81	5.8	26
25	Accelerated Fmoc solid-phase synthesis of peptides with aggregation-disrupting backbones. *Organic and Biomolecular Chemistry*, **2015**, 13, 1500-6	3.9	23
24	{Cr[RC(CH2O)3]2Mo6O18}3 the first organically-functionalized isomer of Anderson-type polyoxometalates. *Inorganic Chemistry Frontiers*, **2017**, 4, 1215-1218	6.8	20
23	Hmb(off/on) as a switchable thiol protecting group for native chemical ligation. *Organic and Biomolecular Chemistry*, **2016**, 14, 4194-8	3.9	20
22	Single-Atom Mn Active Site in a Triol-Stabilized Anderson Manganohexamolybdate for Enhanced Catalytic Activity towards Adipic Acid Production. *Catalysts*, **2018**, 8, 121	4	19
21	Irreversible Site-Specific Hydrazinolysis of Proteins by Use of Sortase. *Angewandte Chemie*, **2014**, 126, 2230-2234	3.6	19
20	Chemical Synthesis of Integral Membrane Proteins: Methods and Applications. *Israel Journal of Chemistry*, **2011**, 51, 940-952	3.4	17
19	Synthesis of Autophagosomal Marker Protein LC3-II under Detergent-Free Conditions. *Angewandte Chemie*, **2013**, 125, 4958-4962	3.6	15
18	Tosylation of alcohols: an effective strategy for the functional group transformation of organic derivatives of polyoxometalates. *Scientific Reports*, **2017**, 7, 12523	4.9	14
17	Polyoxovanadate-iodobodipy supramolecular assemblies: new agents for high efficiency cancer photochemotherapy. *Chemical Communications*, **2020**, 56, 2869-2872	5.8	13
16	[VMoO(NAr)(NAr)]: the first polyarylimido-stabilized molybdovanadate cluster. *Chemical Communications*, **2017**, 53, 2551-2554	5.8	9
15	Total synthesis of mambalgin-1/2/3 by two-segment hydrazide-based native chemical ligation. *Journal of Peptide Science*, **2016**, 22, 320-6	2.1	9

14	Light-Induced Efficient Hydroxylation of Benzene to Phenol by Quinolinium and Polyoxovanadate-Based Supramolecular Catalysts. *Angewandte Chemie - International Edition*, **2021**, 60, 13310-13316	16.4	9
13	A Series of Weakley-type Polyoxomolybdates: Synthesis, Characterization, and Magnetic Properties by a Combined Experimental and Theoretical Approach. *Inorganic Chemistry*, **2018**, 57, 963-969	5.1	8
12	Thiol-assisted one-pot synthesis of peptide/protein C-terminal thioacids from peptide/protein hydrazides at neutral conditions. *Organic and Biomolecular Chemistry*, **2014**, 12, 9413-8	3.9	8
11	Ubiquitin 7-amino-4-carbamoylmethylcoumarin as an improved fluorogenic substrate for deubiquitinating enzymes. *Tetrahedron*, **2016**, 72, 4085-4090	2.4	8
10	Affinity Maturation of Macrocyclic Peptide Modulators of Lys48-Linked Diubiquitin by a Twofold Strategy. *Chemistry - A European Journal*, **2020**, 26, 8022-8027	4.8	7
9	Facile solid-phase synthesis of PNA–peptide conjugates using pNZ-protected PNA monomers. *Organic Chemistry Frontiers*, **2014**, 1, 1050-1054	5.2	7
8	Chemical Synthesis of K48-Linked Diubiquitin by Incorporation of a Lysine-Linked Auxiliary Handle. *European Journal of Organic Chemistry*, **2016**, 2016, 2665-2670	3.2	7
7	Protein modification: Standing out from the crowd. *Nature Chemistry*, **2016**, 8, 101-2	17.6	6
6	Buildup of Redox-Responsive Hybrid from Polyoxometalate and Redox-Active Conducting Oligomer: Its Self-Assemblies with Controllable Morphologies. *Chemistry - A European Journal*, **2017**, 23, 14860-14865	4.8	6
5	Chemoenzymatic Posttranslational Modification Reactions for the Synthesis of [CH NH]-Containing Peptides. *Angewandte Chemie - International Edition*, **2020**, 59, 684-688	16.4	6
4	One-Pot Ribosomal Synthesis of Macrocyclic Depsipeptides. *Journal of the American Chemical Society*, **2021**, 143, 4741-4750	16.4	4
3	KAHA Ligation at Serine. *ChemBioChem*, **2016**, 17, 28-30	3.8	2
2	Chemoenzymatic Posttranslational Modification Reactions for the Synthesis of [CH2NH]-Containing Peptides. *Angewandte Chemie*, **2020**, 132, 694-698	3.6	1
1	Light-Induced Efficient Hydroxylation of Benzene to Phenol by Quinolinium and Polyoxovanadate-Based Supramolecular Catalysts. *Angewandte Chemie*, **2021**, 133, 13422-13428	3.6	1