Wen-Chao Yang

List of Publications by Year
in descending order

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65	2,910	147566 31	174990 52
papers	citations	h-index	g-index

66	66	66	2479
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rational Design and Application of an Indolium-Derived Heptamethine Cyanine with Record-Long Second Near-Infrared Emission. CCS Chemistry, 2022, 4, 1961-1976.	4.6	50
2	Pharmacophore-Oriented Discovery of Novel 1,2,3-Benzotriazine-4-one Derivatives as Potent 4-Hydroxyphenylpyruvate Dioxygenase Inhibitors. Journal of Agricultural and Food Chemistry, 2022, 70, 6644-6657.	2.4	21
3	Development of Small-Molecule Fluorescent Probes Targeting Enzymes. Molecules, 2022, 27, 4501.	1.7	10
4	Photoacoustic imaging-guided chemo-photothermal combinational therapy based on emissive Pt(II) metallacycle-loaded biomimic melanin dots. Science China Chemistry, 2021, 64, 134-142.	4.2	19
5	Structure-Guided Discovery of Silicon-Containing Subnanomolar Inhibitor of Hydroxyphenylpyruvate Dioxygenase as a Potential Herbicide. Journal of Agricultural and Food Chemistry, 2021, 69, 459-473.	2.4	33
6	Where are the new herbicides?. Pest Management Science, 2021, 77, 2620-2625.	1.7	65
7	Review on the recent progress in the development of fluorescent probes targeting enzymes. Methods and Applications in Fluorescence, 2021, 9, 032001.	1.1	18
8	Multienzyme-Targeted Fluorescent Probe as a Biosensing Platform for Broad Detection of Pesticide Residues. Analytical Chemistry, 2021, 93, 7079-7085.	3.2	59
9	Synthesis and Herbicidal Activity of Triketone-Aminopyridines as Potent p-Hydroxyphenylpyruvate Dioxygenase Inhibitors. Journal of Agricultural and Food Chemistry, 2021, 69, 5734-5745.	2.4	26
10	Redox probes tagged electrochemical aptasensing device for simultaneous detection of multiple cytokines in real time. Sensors and Actuators B: Chemical, 2021, 336, 129747.	4.0	25
11	The structure of 4-hydroxylphenylpyruvate dioxygenase complexed with 4-hydroxylphenylpyruvic acid reveals an unexpected inhibition mechanism. Chinese Chemical Letters, 2021, 32, 1920-1924.	4.8	7
12	Rational Redesign of Enzyme via the Combination of Quantum Mechanics/Molecular Mechanics, Molecular Dynamics, and Structural Biology Study. Journal of the American Chemical Society, 2021, 143, 15674-15687.	6.6	32
13	Pyroglutamate Aminopeptidase I Promotes Hepatocellular Carcinoma via IL-6/STAT3 Activation as Revealed by a Specific Biosensor. Analytical Chemistry, 2021, 93, 13311-13318.	3.2	9
14	Quinazoline-2,4-dione: A promising scaffold for herbicide discovery. , 2021, , 483-499.		1
15	Genetic, epigenetic and biochemical regulation of succinate dehydrogenase function. Biological Chemistry, 2020, 401, 319-330.	1.2	32
16	Molecular pathogenesis of tumorigenesis caused by succinate dehydrogenase defect. European Journal of Cell Biology, 2020, 99, 151057.	1.6	25
17	Nearâ€Infrared Fluorescence/Photoacoustic Agent with an Intensifying Optical Performance for Imagingâ€Guided Effective Photothermal Therapy. Advanced Therapeutics, 2020, 3, 2000170.	1.6	25
18	Cover Image, Volume 76, Issue 10. Pest Management Science, 2020, 76, i.	1.7	0

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19	An Activity-Based Fluorogenic Probe Enables Cellular and in Vivo Profiling of Carboxylesterase Isozymes. Analytical Chemistry, 2020, 92, 9205-9213.	3.2	37
20	Human Neutrophil Elastase Activated Fluorescent Probe for Pulmonary Diseases Based on Fluorescence Resonance Energy Transfer Using CdSe/ZnS Quantum Dots. ACS Nano, 2020, 14, 4244-4254.	7.3	30
21	Fragmentâ€based discovery of flexible inhibitor targeting wildâ€type acetohydroxyacid synthase and P197L mutant. Pest Management Science, 2020, 76, 3403-3412.	1.7	17
22	Discovery of Novel Pyrazoleâ€“Quinazoline-2,4-dione Hybrids as 4-Hydroxyphenylpyruvate Dioxygenase Inhibitors. Journal of Agricultural and Food Chemistry, 2020, 68, 5059-5067.	2.4	34
23	Pyrazoleâ€“Isoindoline-1,3-dione Hybrid: A Promising Scaffold for 4-Hydroxyphenylpyruvate Dioxygenase Inhibitors. Journal of Agricultural and Food Chemistry, 2019, 67, 10844-10852.	2.4	43
24	The assembly of succinate dehydrogenase: a key enzyme in bioenergetics. Cellular and Molecular Life Sciences, 2019, 76, 4023-4042.	2.4	84
25	Molecular insights into the mechanism of 4â€hydroxyphenylpyruvate dioxygenase inhibition: enzyme kinetics, Xâ€ray crystallography and computational simulations. FEBS Journal, 2019, 286, 975-990.	2.2	68
26	Activity-Based Near-Infrared Fluorogenic Probe for Enabling in Vitro and in Vivo Profiling of Neutrophil Elastase. Analytical Chemistry, 2019, 91, 3877-3884.	3.2	44
27	Hydrophobicity-oriented drug design (HODD) of new human 4-hydroxyphenylpyruvate dioxygenase inhibitors. European Journal of Medicinal Chemistry, 2019, 166, 22-31.	2.6	22
28	Crystal Structure of 4-Hydroxyphenylpyruvate Dioxygenase in Complex with Substrate Reveals a New Starting Point for Herbicide Discovery. Research, 2019, 2019, 2602414.	2.8	62
29	Fluorogenic and chromogenic detection of carboxypeptidase Y with a nonpeptide-based small-molecule probe. Sensors and Actuators B: Chemical, 2018, 269, 127-134.	4.0	5
30	Cholinesterases and Engineered Mutants for the Detection of Organophosphorus Pesticide Residues. Sensors, 2018, 18, 4281.	2.1	26
31	Discovery of Butyrylcholinesterase-Activated Near-Infrared Fluorogenic Probe for Live-Cell and In Vivo Imaging. ACS Sensors, 2018, 3, 2118-2128.	4.0	67
32	Graphene Oxide Based Recyclable in Vivo Device for Amperometric Monitoring of Interferon-Î³ in Inflammatory Mice. ACS Applied Materials & Interfaces, 2018, 10, 33078-33087.	4.0	25
33	Discovery of Specific Nonpeptide Probe for Chymotrypsin via Molecular Docking-Based Virtual Screening and the Application. ACS Applied Bio Materials, 2018, 1, 310-317.	2.3	18
34	Structure-Based Discovery of Potential Fungicides as Succinate Ubiquinone Oxidoreductase Inhibitors. Journal of Agricultural and Food Chemistry, 2017, 65, 1021-1029.	2.4	124
35	Nonpeptide-Based Small-Molecule Probe for Fluorogenic and Chromogenic Detection of Chymotrypsin. Analytical Chemistry, 2017, 89, 3687-3693.	3.2	26
36	Yeast-based assays for detecting protein-protein/drug interactions and their inhibitors. European Journal of Cell Biology, 2017, 96, 529-541.	1.6	9

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37	Discovery of a butyrylcholinesterase-specific probe via a structure-based design strategy. Chemical Communications, 2017, 53, 3952-3955.	2.2	42
38	4-Hydroxyphenylpyruvate Dioxygenase Inhibitors: From Chemical Biology to Agrochemicals. Journal of Agricultural and Food Chemistry, 2017, 65, 8523-8537.	2.4	97
39	Advances in Research on 4-Hydroxyphenylpyruvate Dioxygenase (HPPD) Structure and Pyrazole-Containing Herbicides. Chinese Journal of Organic Chemistry, 2017, 37, 2895.	0.6	18
40	Discovery of Potent Succinate-Ubiquinone Oxidoreductase Inhibitors via Pharmacophore-linked Fragment Virtual Screening Approach. Journal of Agricultural and Food Chemistry, 2016, 64, 4830-4837.	2.4	68
41	Detection of Intracellular Selenol-Containing Molecules Using a Fluorescent Probe with Near-Zero Background Signal. Analytical Chemistry, 2016, 88, 6084-6091.	3.2	67
42	An Efficient One-Pot Synthesis of 2-(Aryloxyacetyl)cyclohexane-1,3-diones as Herbicidal 4-Hydroxyphenylpyruvate Dioxygenase Inhibitors. Journal of Agricultural and Food Chemistry, 2016, 64, 8986-8993.	2.4	60
43	A Highly Sensitive and Selective Fluorescent Probe for Thiophenol Designed via a Twist-Blockage Strategy. Analytical Chemistry, 2016, 88, 2266-2272.	3.2	103
44	Design, synthesis and herbicidal activity of novel quinazoline-2,4-diones as 4-hydroxyphenylpyruvate dioxygenase inhibitors. Pest Management Science, 2015, 71, 1122-1132.	1.7	74
45	Synthesis and Herbicidal Activity of Triketoneâ€“Quinoline Hybrids as Novel 4-Hydroxyphenylpyruvate Dioxygenase Inhibitors. Journal of Agricultural and Food Chemistry, 2015, 63, 5587-5596.	2.4	85
46	Succinate Dehydrogenase: An Ideal Target for Fungicide Discovery. ACS Symposium Series, 2015, , 175-194.	0.5	62
47	Synthesis and bioevaluation of pyrazole-benzimidazolone hybrids as novel human 4-Hydroxyphenylpyruvate dioxygenase inhibitors. European Journal of Medicinal Chemistry, 2015, 92, 427-438.	2.6	30
48	Synthesis and Bioactivity Studies of Triketone-Containing Quinazoline-2,4-dione Derivatives. Acta Chimica Sinica, 2015, 73, 29.	0.5	12
49	Synthesis and Herbicidal Evaluation of Triketone-Containing Quinazoline-2,4-diones. Journal of Agricultural and Food Chemistry, 2014, 62, 11786-11796.	2.4	81
50	A Coumarin-Based Fluorescent Probe for Selective and Sensitive Detection of Thiophenols and Its Application. Analytical Chemistry, 2014, 86, 3037-3042.	3.2	175
51	Syntheses of coumarinâ€“tacrine hybrids as dual-site acetylcholinesterase inhibitors and their activity against butylcholinesterase, AÎ² aggregation, and Î²-secretase. Bioorganic and Medicinal Chemistry, 2014, 22, 4784-4791.	1.4	77
52	Pyrazoloneâ€“quinazolone hybrids: A novel class of human 4-hydroxyphenylpyruvate dioxygenase inhibitors. Bioorganic and Medicinal Chemistry, 2014, 22, 5194-5211.	1.4	34
53	Substrate selectivity of high-activity mutants of human butyrylcholinesterase. Organic and Biomolecular Chemistry, 2013, 11, 7477.	1.5	31
54	Non-Peptide-Based Fluorogenic Small-Molecule Probe for Elastase. Analytical Chemistry, 2013, 85, 11304-11311.	3.2	44

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55	Novel coumarin-based sensitive and selective fluorescent probes for biothiols in aqueous solution and in living cells. RSC Advances, 2013, 3, 26059.	1.7	22
56	Design, Synthesis, and Bioevaluation of Novel Strobilurin Derivatives. Chinese Journal of Chemistry, 2012, 30, 1999-2008.	2.6	20
57	Design, synthesis, and bioevaluation of benzamides: Novel acetylcholinesterase inhibitors with multi-functions on butylcholinesterase, Aî² aggregation, and î²-secretase. Bioorganic and Medicinal Chemistry, 2012, 20, 6739-6750.	1.4	39
58	Computational Discovery of Picomolar Q_o Site Inhibitors of Cytochrome bc₁ Complex. Journal of the American Chemical Society, 2012, 134, 11168-11176.	6.6	147
59	Rieske Ironâ€“Sulfur Protein of the Cytochrome bc₁ Complex: A Potential Target for Fungicide Discovery. ChemBioChem, 2012, 13, 1542-1551.	1.3	16
60	Novel synthetic methods for N-cyano-1H-imidazole-4-carboxamides and their fungicidal activity. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 1455-1458.	1.0	29
61	New inhibitor of 3-phosphoinositide dependent protein kinase-1 identified from virtual screening. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 1629-1632.	1.0	12
62	Free Energy Perturbation Simulation on Transition States and High-Activity Mutants of Human Butyrylcholinesterase for (â^')-Cocaine Hydrolysis. Journal of Physical Chemistry B, 2010, 114, 10889-10896.	1.2	23
63	Most Efficient Cocaine Hydrolase Designed by Virtual Screening of Transition States. Journal of the American Chemical Society, 2008, 130, 12148-12155.	6.6	164
64	Computational Design of a Human Butyrylcholinesterase Mutant for Accelerating Cocaine Hydrolysis Based on the Transition-State Simulation. Angewandte Chemie - International Edition, 2006, 45, 653-657.	7.2	69
65	Design of a Metallacycleâ€Based Supramolecular Photosensitizer for In Vivo Imageâ€Guided Photodynamic Inactivation of Bacteria. Angewandte Chemie, 0, , .	1.6	11