

Wen-Chao Yang

List of Publications by Year in descending order

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65

papers

2,910

citations

147566

31

h-index

174990

52

g-index

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all docs

66

docs citations

66

times ranked

2479

citing authors

#	ARTICLE	IF	CITATIONS
1	A Coumarin-Based Fluorescent Probe for Selective and Sensitive Detection of Thiophenols and Its Application. <i>Analytical Chemistry</i> , 2014, 86, 3037-3042.	3.2	175
2	Most Efficient Cocaine Hydrolase Designed by Virtual Screening of Transition States. <i>Journal of the American Chemical Society</i> , 2008, 130, 12148-12155.	6.6	164
3	Computational Discovery of Picomolar Q_o Site Inhibitors of Cytochrome bc_1 Complex. <i>Journal of the American Chemical Society</i> , 2012, 134, 11168-11176.	6.6	147
4	Structure-Based Discovery of Potential Fungicides as Succinate Ubiquinone Oxidoreductase Inhibitors. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 1021-1029.	2.4	124
5	A Highly Sensitive and Selective Fluorescent Probe for Thiophenol Designed via a Twist-Blockage Strategy. <i>Analytical Chemistry</i> , 2016, 88, 2266-2272.	3.2	103
6	4-Hydroxyphenylpyruvate Dioxygenase Inhibitors: From Chemical Biology to Agrochemicals. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 8523-8537.	2.4	97
7	Synthesis and Herbicidal Activity of Triketone-Quinoline Hybrids as Novel 4-Hydroxyphenylpyruvate Dioxygenase Inhibitors. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 5587-5596.	2.4	85
8	The assembly of succinate dehydrogenase: a key enzyme in bioenergetics. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 4023-4042.	2.4	84
9	Synthesis and Herbicidal Evaluation of Triketone-Containing Quinazoline-2,4-diones. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 11786-11796.	2.4	81
10	Syntheses of coumarin-tacrine hybrids as dual-site acetylcholinesterase inhibitors and their activity against butylcholinesterase, $A\beta$ aggregation, and β -secretase. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 4784-4791.	1.4	77
11	Design, synthesis and herbicidal activity of novel quinazoline-2,4-diones as 4-hydroxyphenylpyruvate dioxygenase inhibitors. <i>Pest Management Science</i> , 2015, 71, 1122-1132.	1.7	74
12	Computational Design of a Human Butyrylcholinesterase Mutant for Accelerating Cocaine Hydrolysis Based on the Transition-State Simulation. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 653-657.	7.2	69
13	Discovery of Potent Succinate-Ubiquinone Oxidoreductase Inhibitors via Pharmacophore-linked Fragment Virtual Screening Approach. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 4830-4837.	2.4	68
14	Molecular insights into the mechanism of 4-hydroxyphenylpyruvate dioxygenase inhibition: enzyme kinetics, X-ray crystallography and computational simulations. <i>FEBS Journal</i> , 2019, 286, 975-990.	2.2	68
15	Detection of Intracellular Selenol-Containing Molecules Using a Fluorescent Probe with Near-Zero Background Signal. <i>Analytical Chemistry</i> , 2016, 88, 6084-6091.	3.2	67
16	Discovery of Butyrylcholinesterase-Activated Near-Infrared Fluorogenic Probe for Live-Cell and <i>In Vivo</i> Imaging. <i>ACS Sensors</i> , 2018, 3, 2118-2128.	4.0	67
17	Where are the new herbicides?. <i>Pest Management Science</i> , 2021, 77, 2620-2625.	1.7	65
18	Succinate Dehydrogenase: An Ideal Target for Fungicide Discovery. <i>ACS Symposium Series</i> , 2015, , 175-194.	0.5	62

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19	Crystal Structure of 4-Hydroxyphenylpyruvate Dioxygenase in Complex with Substrate Reveals a New Starting Point for Herbicide Discovery. <i>Research</i> , 2019, 2019, 2602414.	2.8	62
20	An Efficient One-Pot Synthesis of 2-(Aryloxyacetyl)cyclohexane-1,3-diones as Herbicidal 4-Hydroxyphenylpyruvate Dioxygenase Inhibitors. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 8986-8993.	2.4	60
21	Multienzyme-Targeted Fluorescent Probe as a Biosensing Platform for Broad Detection of Pesticide Residues. <i>Analytical Chemistry</i> , 2021, 93, 7079-7085.	3.2	59
22	Rational Design and Application of an Indolium-Derived Heptamethine Cyanine with Record-Long Second Near-Infrared Emission. <i>CCS Chemistry</i> , 2022, 4, 1961-1976.	4.6	50
23	Non-Peptide-Based Fluorogenic Small-Molecule Probe for Elastase. <i>Analytical Chemistry</i> , 2013, 85, 11304-11311.	3.2	44
24	Activity-Based Near-Infrared Fluorogenic Probe for Enabling in Vitro and in Vivo Profiling of Neutrophil Elastase. <i>Analytical Chemistry</i> , 2019, 91, 3877-3884.	3.2	44
25	Pyrazole-Isoindoline-1,3-dione Hybrid: A Promising Scaffold for 4-Hydroxyphenylpyruvate Dioxygenase Inhibitors. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 10844-10852.	2.4	43
26	Discovery of a butyrylcholinesterase-specific probe via a structure-based design strategy. <i>Chemical Communications</i> , 2017, 53, 3952-3955.	2.2	42
27	Design, synthesis, and bioevaluation of benzamides: Novel acetylcholinesterase inhibitors with multi-functions on butylcholinesterase, A β 2 aggregation, and Î2-secretase. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 6739-6750.	1.4	39
28	An Activity-Based Fluorogenic Probe Enables Cellular and in Vivo Profiling of Carboxylesterase Isozymes. <i>Analytical Chemistry</i> , 2020, 92, 9205-9213.	3.2	37
29	Pyrazolone-quinazoline hybrids: A novel class of human 4-hydroxyphenylpyruvate dioxygenase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 5194-5211.	1.4	34
30	Discovery of Novel Pyrazole-Quinazoline-2,4-dione Hybrids as 4-Hydroxyphenylpyruvate Dioxygenase Inhibitors. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 5059-5067.	2.4	34
31	Structure-Guided Discovery of Silicon-Containing Subnanomolar Inhibitor of Hydroxyphenylpyruvate Dioxygenase as a Potential Herbicide. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 459-473.	2.4	33
32	Genetic, epigenetic and biochemical regulation of succinate dehydrogenase function. <i>Biological Chemistry</i> , 2020, 401, 319-330.	1.2	32
33	Rational Redesign of Enzyme via the Combination of Quantum Mechanics/Molecular Mechanics, Molecular Dynamics, and Structural Biology Study. <i>Journal of the American Chemical Society</i> , 2021, 143, 15674-15687.	6.6	32
34	Substrate selectivity of high-activity mutants of human butyrylcholinesterase. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 7477.	1.5	31
35	Synthesis and bioevaluation of pyrazole-benzimidazolone hybrids as novel human 4-Hydroxyphenylpyruvate dioxygenase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2015, 92, 427-438.	2.6	30
36	Human Neutrophil Elastase Activated Fluorescent Probe for Pulmonary Diseases Based on Fluorescence Resonance Energy Transfer Using CdSe/ZnS Quantum Dots. <i>ACS Nano</i> , 2020, 14, 4244-4254.	7.3	30

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37	Novel synthetic methods for N-cyano-1H-imidazole-4-carboxamides and their fungicidal activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 1455-1458.	1.0	29
38	Nonpeptide-Based Small-Molecule Probe for Fluorogenic and Chromogenic Detection of Chymotrypsin. <i>Analytical Chemistry</i> , 2017, 89, 3687-3693.	3.2	26
39	Cholinesterases and Engineered Mutants for the Detection of Organophosphorus Pesticide Residues. <i>Sensors</i> , 2018, 18, 4281.	2.1	26
40	Synthesis and Herbicidal Activity of Triketone-Aminopyridines as Potent 4-Hydroxyphenylpyruvate Dioxygenase Inhibitors. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 5734-5745.	2.4	26
41	Graphene Oxide Based Recyclable <i>in Vivo</i> Device for Amperometric Monitoring of Interferon- γ in Inflammatory Mice. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33078-33087.	4.0	25
42	Molecular pathogenesis of tumorigenesis caused by succinate dehydrogenase defect. <i>European Journal of Cell Biology</i> , 2020, 99, 151057.	1.6	25
43	Near-Infrared Fluorescence/Photoacoustic Agent with an Intensifying Optical Performance for Imaging-Guided Effective Photothermal Therapy. <i>Advanced Therapeutics</i> , 2020, 3, 2000170.	1.6	25
44	Redox probes tagged electrochemical aptasensing device for simultaneous detection of multiple cytokines in real time. <i>Sensors and Actuators B: Chemical</i> , 2021, 336, 129747.	4.0	25
45	Free Energy Perturbation Simulation on Transition States and High-Activity Mutants of Human Butyrylcholinesterase for (S)-Cocaine Hydrolysis. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10889-10896.	1.2	23
46	Novel coumarin-based sensitive and selective fluorescent probes for biothiols in aqueous solution and in living cells. <i>RSC Advances</i> , 2013, 3, 26059.	1.7	22
47	Hydrophobicity-oriented drug design (HODD) of new human 4-hydroxyphenylpyruvate dioxygenase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2019, 166, 22-31.	2.6	22
48	Pharmacophore-Oriented Discovery of Novel 1,2,3-Benzotriazine-4-one Derivatives as Potent 4-Hydroxyphenylpyruvate Dioxygenase Inhibitors. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 6644-6657.	2.4	21
49	Design, Synthesis, and Bioevaluation of Novel Strobilurin Derivatives. <i>Chinese Journal of Chemistry</i> , 2012, 30, 1999-2008.	2.6	20
50	Photoacoustic imaging-guided chemo-photothermal combinational therapy based on emissive Pt(II) metallacycle-loaded biomimic melanin dots. <i>Science China Chemistry</i> , 2021, 64, 134-142.	4.2	19
51	Discovery of Specific Nonpeptide Probe for Chymotrypsin via Molecular Docking-Based Virtual Screening and the Application. <i>ACS Applied Bio Materials</i> , 2018, 1, 310-317.	2.3	18
52	Review on the recent progress in the development of fluorescent probes targeting enzymes. <i>Methods and Applications in Fluorescence</i> , 2021, 9, 032001.	1.1	18
53	Advances in Research on 4-Hydroxyphenylpyruvate Dioxygenase (HPPD) Structure and Pyrazole-Containing Herbicides. <i>Chinese Journal of Organic Chemistry</i> , 2017, 37, 2895.	0.6	18
54	Fragment-based discovery of flexible inhibitor targeting wild-type acetohydroxyacid synthase and P197L mutant. <i>Pest Management Science</i> , 2020, 76, 3403-3412.	1.7	17

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55	Rieske Iron-Sulfur Protein of the Cytochrome <i>bc₁</i> Complex: A Potential Target for Fungicide Discovery. <i>ChemBioChem</i> , 2012, 13, 1542-1551.	1.3	16
56	New inhibitor of 3-phosphoinositide dependent protein kinase-1 identified from virtual screening. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 1629-1632.	1.0	12
57	Synthesis and Bioactivity Studies of Triketone-Containing Quinazoline-2,4-dione Derivatives. <i>Acta Chimica Sinica</i> , 2015, 73, 29.	0.5	12
58	Design of a Metallacycle-Based Supramolecular Photosensitizer for In Vivo Image-Guided Photodynamic Inactivation of Bacteria. <i>Angewandte Chemie</i> , 0, , .	1.6	11
59	Development of Small-Molecule Fluorescent Probes Targeting Enzymes. <i>Molecules</i> , 2022, 27, 4501.	1.7	10
60	Yeast-based assays for detecting protein-protein/drug interactions and their inhibitors. <i>European Journal of Cell Biology</i> , 2017, 96, 529-541.	1.6	9
61	Pyroglutamate Aminopeptidase I Promotes Hepatocellular Carcinoma via IL-6/STAT3 Activation as Revealed by a Specific Biosensor. <i>Analytical Chemistry</i> , 2021, 93, 13311-13318.	3.2	9
62	The structure of 4-hydroxylphenylpyruvate dioxygenase complexed with 4-hydroxylphenylpyruvic acid reveals an unexpected inhibition mechanism. <i>Chinese Chemical Letters</i> , 2021, 32, 1920-1924.	4.8	7
63	Fluorogenic and chromogenic detection of carboxypeptidase Y with a nonpeptide-based small-molecule probe. <i>Sensors and Actuators B: Chemical</i> , 2018, 269, 127-134.	4.0	5
64	Quinazoline-2,4-dione: A promising scaffold for herbicide discovery. , 2021, , 483-499.		1
65	Cover Image, Volume 76, Issue 10. <i>Pest Management Science</i> , 2020, 76, i.	1.7	0