

Wen Shan Yew

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,762
citations

331259

21
h-index

288905

40
g-index

54
all docs

54
docs citations

54
times ranked

2418
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineered commensal microbes for diet-mediated colorectal-cancer chemoprevention. <i>Nature Biomedical Engineering</i> , 2018, 2, 27-37.	11.6	184
2	Building a global alliance of biofoundries. <i>Nature Communications</i> , 2019, 10, 2040.	5.8	167
3	Utilization of l-Ascorbate by <i>Escherichia coli</i> K-12: Assignments of Functions to Products of the yjf-sga and yia-sgb Operons. <i>Journal of Bacteriology</i> , 2002, 184, 302-306.	1.0	118
4	Enhancing gold recovery from electronic waste via lixiviant metabolic engineering in <i>Chromobacterium violaceum</i> . <i>Scientific Reports</i> , 2013, 3, 2236.	1.6	100
5	Development of Quorum-Based Anti-Virulence Therapeutics Targeting Gram-Negative Bacterial Pathogens. <i>International Journal of Molecular Sciences</i> , 2013, 14, 16570-16599.	1.8	100
6	Disruption of Biofilm Formation by the Human Pathogen <i>Acinetobacter baumannii</i> Using Engineered Quorum-Quenching Lactonases. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 1802-1805.	1.4	85
7	Directed Evolution of a Thermostable Quorum-quenching Lactonase from the Amidohydrolase Superfamily. <i>Journal of Biological Chemistry</i> , 2010, 285, 40911-40920.	1.6	77
8	Engineering a riboswitch-based genetic platform for the self-directed evolution of acid-tolerant phenotypes. <i>Nature Communications</i> , 2017, 8, 411.	5.8	71
9	Exploiting the Biosynthetic Potential of Type III Polyketide Synthases. <i>Molecules</i> , 2016, 21, 806.	1.7	66
10	Directed Evolution of a Quorum-Quenching Lactonase from <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> K-10 in the Amidohydrolase Superfamily. <i>Biochemistry</i> , 2009, 48, 4344-4353.	1.2	62
11	Reprogramming Probiotic <i>Lactobacillus reuteri</i> as a Biosensor for <i>Staphylococcus aureus</i> Derived AIP-I Detection. <i>ACS Synthetic Biology</i> , 2018, 7, 1229-1237.	1.9	57
12	COVID-19 endocrinopathy with hindsight from SARS. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021, 320, E139-E150.	1.8	55
13	Site-Directed Mutagenesis on Human Cystathionine-Î ³ -Lyase Reveals Insights into the Modulation of H ₂ S Production. <i>Journal of Molecular Biology</i> , 2010, 396, 708-718.	2.0	53
14	Immunomodulation as Therapy for Fungal Infection: Are We Closer?. <i>Frontiers in Microbiology</i> , 2018, 9, 1612.	1.5	43
15	Evolution of Enzymatic Activities in the Orotidine 5-Phosphate Decarboxylase Suprafamily: Enhancing the Promiscuous d-arabino-Hex-3-ulose 6-Phosphate Synthase Reaction Catalyzed by 3-Keto-l-gulonate 6-Phosphate Decarboxylase. <i>Biochemistry</i> , 2005, 44, 1807-1815.	1.2	42
16	Reprogrammable microbial cell-based therapeutics against antibiotic-resistant bacteria. <i>Drug Resistance Updates</i> , 2016, 27, 59-71.	6.5	39
17	Targeted Approaches for In Situ Gut Microbiome Manipulation. <i>Genes</i> , 2018, 9, 351.	1.0	36
18	Engineered strains enhance gold biorecovery from electronic scrap. <i>Minerals Engineering</i> , 2015, 75, 32-37.	1.8	30

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19	The Divergent Immunomodulatory Effects of Short Chain Fatty Acids and Medium Chain Fatty Acids. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6453.	1.8	30
20	Loss of quaternary structure is associated with rapid sequence divergence in the OSBS family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8535-8540.	3.3	29
21	Evolution of Enzymatic Activities in the Orotidine 5â€™-Monophosphate Decarboxylase Suprafamily:Â Mechanistic Evidence for a Proton Relay System in the Active Site of 3-Keto-l-gulonate 6-Phosphate Decarboxylaseâ€™. <i>Biochemistry</i> , 2004, 43, 6427-6437.	1.2	24
22	Engineering microbes for targeted strikes against human pathogens. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 2719-2733.	2.4	24
23	Novel Modalities in DNA Data Storage. <i>Trends in Biotechnology</i> , 2021, 39, 990-1003.	4.9	23
24	Synthetic Polyketide Enzymology: Platform for Biosynthesis of Antimicrobial Polyketides. <i>ACS Catalysis</i> , 2015, 5, 4033-4042.	5.5	22
25	Establishing a Toolkit for Precursor-Directed Polyketide Biosynthesis: Exploring Substrate Promiscuities of Acid-CoA Ligases. <i>Biochemistry</i> , 2012, 51, 4568-4579.	1.2	20
26	Structure of a Minimal Î±-Carboxysome-Derived Shell and Its Utility in Enzyme Stabilization. <i>Biomacromolecules</i> , 2021, 22, 4095-4109.	2.6	19
27	The role of tryptophan residues in the hemolytic activity of stonustoxin, a lethal factor from stonefish (<i>Synanceja horrida</i>) venom. <i>Biochimie</i> , 2000, 82, 251-257.	1.3	14
28	Structural Evidence of a Productive Active Site Architecture for an Evolved Quorum-Quenching GKL Lactonase. <i>Biochemistry</i> , 2013, 52, 2359-2370.	1.2	14
29	Evolving a Thermostable Terminal Deoxynucleotidyl Transferase. <i>ACS Synthetic Biology</i> , 2020, 9, 1725-1735.	1.9	14
30	Reconstituting the complete biosynthesis of D-lysergic acid in yeast. <i>Nature Communications</i> , 2022, 13, 712.	5.8	14
31	Structure-Guided Engineering of Prenyltransferase NphB for High-Yield and Regioselective Cannabinoid Production. <i>ACS Catalysis</i> , 2022, 12, 4628-4639.	5.5	12
32	Recent Advances in Structure, Function, and Pharmacology of Class A Lipid GPCRs: Opportunities and Challenges for Drug Discovery. <i>Pharmaceuticals</i> , 2022, 15, 12.	1.7	12
33	Toolkit Development for Cyanogenic and Gold Biorecovery Chassis <i>Chromobacterium violaceum</i> . <i>ACS Synthetic Biology</i> , 2020, 9, 953-961.	1.9	11
34	Future trends in synthetic biology in Asia. <i>Genetics & Genomics Next</i> , 2021, 2, e10038.	0.8	10
35	Biologically engineered microbes for bioremediation of electronic waste: Wayposts, challenges and future directions. <i>Engineering Biology</i> , 2022, 6, 23-34.	0.8	10
36	Biosynthesis of Nature-Inspired Unnatural Cannabinoids. <i>Molecules</i> , 2021, 26, 2914.	1.7	9

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37	Scalable Workflow for Green Manufacturing: Discovery of Bacterial Lipases for Biodiesel Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13450-13459.	3.2	9
38	Identification of Polyketide Inhibitors Targeting 3-Dehydroquinate Dehydratase in the Shikimate Pathway of <i>Enterococcus faecalis</i> . <i>PLoS ONE</i> , 2014, 9, e103598.	1.1	7
39	Development of a Proline-Based Selection System for Reliable Genetic Engineering in Chinese Hamster Ovary Cells. <i>ACS Synthetic Biology</i> , 2020, 9, 1864-1872.	1.9	7
40	Heterologous expression of cyanobacterial gas vesicle proteins in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Journal</i> , 2021, 16, 2100059.	1.8	7
41	Directed Computational Evolution of Quorum-Quenching Lactonases from the Amidohydrolase Superfamily. <i>Structure</i> , 2020, 28, 635-642.e3.	1.6	5
42	Anti-virulent Disruption of Pathogenic Biofilms using Engineered Quorum-quenching Lactonases. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	4
43	Characterisation of Constitutive Promoters from the Anderson library in <i>Chromobacterium violaceum</i> ATCC 12472. <i>Engineering Biology</i> , 2019, 3, 57-66.	0.8	4
44	Synthetic Enzymology and the Fountain of Youth: Repurposing Biology for Longevity. <i>ACS Omega</i> , 2018, 3, 11050-11061.	1.6	3
45	Genetically Encodable Scaffolds for Optimizing Enzyme Function. <i>Molecules</i> , 2021, 26, 1389.	1.7	3
46	A high-throughput pipeline for scalable kit-free RNA extraction. <i>Scientific Reports</i> , 2021, 11, 23260.	1.6	3
47	Directed Evolution of Quorum-Quenching Enzymes: A Method for the Construction of a Directed Evolution Platform and Characterization of a Quorum-Quenching Lactonase from <i>Geobacillus kaustophilus</i> . <i>Methods in Molecular Biology</i> , 2018, 1673, 311-323.	0.4	2
48	A Novel Lipase from <i>Lasiodiplodia theobromae</i> Efficiently Hydrolyses C8-C10 Methyl Esters for the Preparation of Medium-Chain Triglycerides™ Precursors. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10339.	1.8	2
49	Engineered Nucleotide Chemically Capacitive Microsensor Array Augmented with Physics-Guided Machine Learning for High-Throughput Screening of Cannabidiol. <i>Small</i> , 2022, 18, e2107659.	5.2	2
50	Combinatorial biosynthesis of unnatural polyketides using a type III polyketide synthase from <i>Oryza sativa</i> . <i>FASEB Journal</i> , 2012, 26, 756.10.	0.2	0
51	Developing polyketide-based antimicrobial therapeutics using synthetic enzymology. <i>FASEB Journal</i> , 2012, 26, 756.16.	0.2	0