

E L Ang

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,804
citations

279487

23
h-index

315357

38
g-index

40
all docs

40
docs citations

40
times ranked

2606
citing authors

#	ARTICLE	IF	CITATIONS
1	CRISPR-Cas9 strategy for activation of silent <i>Streptomyces</i> biosynthetic gene clusters. <i>Nature Chemical Biology</i> , 2017, 13, 607-609.	3.9	227
2	A highly efficient single-step, markerless strategy for multi-copy chromosomal integration of large biochemical pathways in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2016, 33, 19-27.	3.6	177
3	Biocatalysis for the synthesis of pharmaceuticals and pharmaceutical intermediates. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 1275-1284.	1.4	158
4	Recent advances in the bioremediation of persistent organic pollutants via biomolecular engineering. <i>Enzyme and Microbial Technology</i> , 2005, 37, 487-496.	1.6	141
5	Engineering microbial hosts for production of bacterial natural products. <i>Natural Product Reports</i> , 2016, 33, 963-987.	5.2	117
6	Recent developments in the application of P450 based biocatalysts. <i>Current Opinion in Chemical Biology</i> , 2018, 43, 1-7.	2.8	82
7	Using natural products for drug discovery: the impact of the genomics era. <i>Expert Opinion on Drug Discovery</i> , 2017, 12, 475-487.	2.5	74
8	In vivo biosensors: mechanisms, development, and applications. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018, 45, 491-516.	1.4	57
9	A widespread pathway for substitution of adenine by diaminopurine in phage genomes. <i>Science</i> , 2021, 372, 512-516.	6.0	55
10	Engineered Pentafunctional Minicellulosome for Simultaneous Saccharification and Ethanol Fermentation in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2014, 80, 6677-6684.	1.4	54
11	Recent advances in combinatorial biosynthesis for drug discovery. <i>Drug Design, Development and Therapy</i> , 2015, 9, 823.	2.0	52
12	Production of Adipic Acid from Sugar Beet Residue by Combined Biological and Chemical Catalysis. <i>ChemCatChem</i> , 2016, 8, 1500-1506.	1.8	49
13	Radical-mediated C-S bond cleavage in C2 sulfonate degradation by anaerobic bacteria. <i>Nature Communications</i> , 2019, 10, 1609.	5.8	46
14	Auroramycin: A Potent Antibiotic from <i>Streptomyces roseosporus</i> by CRISPR-Cas9 Activation. <i>ChemBioChem</i> , 2018, 19, 1716-1719.	1.3	41
15	A New Era of Genome Integration—Simply Cut and Paste!. <i>ACS Synthetic Biology</i> , 2017, 6, 601-609.	1.9	40
16	Directed Evolution of a Fluorinase for Improved Fluorination Efficiency with a Non-native Substrate. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14277-14280.	7.2	38
17	Genome-wide identification of natural RNA aptamers in prokaryotes and eukaryotes. <i>Nature Communications</i> , 2018, 9, 1289.	5.8	37
18	Indoleacetate decarboxylase is a glycy radical enzyme catalysing the formation of malodorant skatole. <i>Nature Communications</i> , 2018, 9, 4224.	5.8	37

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19	Directed evolution of aniline dioxygenase for enhanced bioremediation of aromatic amines. <i>Applied Microbiology and Biotechnology</i> , 2009, 81, 1063-1070.	1.7	36
20	Discovery and engineering of a 1-butanol biosensor in <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2017, 245, 1343-1351.	4.8	36
21	Emerging molecular biology tools and strategies for engineering natural product biosynthesis. <i>Metabolic Engineering Communications</i> , 2020, 10, e00108.	1.9	36
22	Two radical-dependent mechanisms for anaerobic degradation of the globally abundant organosulfur compound dihydroxypropanesulfonate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15599-15608.	3.3	29
23	A New Biosensor for Stilbenes and a Cannabinoid Enabled by Genome Mining of a Transcriptional Regulator. <i>ACS Synthetic Biology</i> , 2020, 9, 698-705.	1.9	28
24	Mechanistically Diverse Pathways for Sulfoquinovose Degradation in Bacteria. <i>ACS Catalysis</i> , 2021, 11, 14740-14750.	5.5	21
25	A transaldolase-dependent sulfoglycolysis pathway in <i>Bacillus megaterium</i> DSM 1804. <i>Biochemical and Biophysical Research Communications</i> , 2020, 533, 1109-1114.	1.0	19
26	Probing the molecular determinants of fluorinase specificity. <i>Chemical Communications</i> , 2017, 53, 2559-2562.	2.2	18
27	An extended bacterial reductive pyrimidine degradation pathway that enables nitrogen release from β -alanine. <i>Journal of Biological Chemistry</i> , 2019, 294, 15662-15671.	1.6	14
28	Directed Evolution of a Fluorinase for Improved Fluorination Efficiency with a Non-native Substrate. <i>Angewandte Chemie</i> , 2016, 128, 14489-14492.	1.6	13
29	A coupled chlorinase-fluorinase system with a high efficiency of <i>trans</i> -halogenation and a shared substrate tolerance. <i>Chemical Communications</i> , 2018, 54, 9458-9461.	2.2	13
30	A Pathway for Degradation of Uracil to Acetyl Coenzyme A in <i>Bacillus megaterium</i> . <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	12
31	Recent advances in biocatalyst development in the pharmaceutical industry. <i>Pharmaceutical Bioprocessing</i> , 2013, 1, 179-196.	0.8	11
32	Delta Integration CRISPR-Cas (Di-CRISPR) in <i>Saccharomyces cerevisiae</i> . <i>Methods in Molecular Biology</i> , 2019, 1927, 73-91.	0.4	9
33	Directed Evolution of Replication-Competent Double-Stranded DNA Bacteriophage toward New Host Specificity. <i>ACS Synthetic Biology</i> , 2022, 11, 634-643.	1.9	7
34	Identification and Characterization of Citrus Peel Uronic Acid Oxidase. <i>ChemBioChem</i> , 2020, 21, 797-800.	1.3	5
35	The Glycyl Radical Enzyme Arylacetate Decarboxylase from <i>Olsenella scatoligenes</i> . <i>ACS Catalysis</i> , 2021, 11, 5789-5794.	5.5	4
36	Identification and Characterization of the Biosynthetic Pathway of the Sulfonolipid Capnine. <i>Biochemistry</i> , 2022, 61, 2861-2869.	1.2	4

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37	Structural and Biochemical Investigation of UTP Cyclohydrolase. ACS Catalysis, 2021, 11, 8895-8901.	5.5	3
38	Anaerobic Hydroxyproline Degradation Involving C-N Cleavage by a Glycyl Radical Enzyme. Journal of the American Chemical Society, 2022, 144, 9715-9722.	6.6	1
39	Biochemical Investigation of 3-Sulfopropionaldehyde Reductase HpfD. ChemBioChem, 2021, 22, 2862-2866.	1.3	0