

Sarah L Lovelock

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

977
citations

516561

16
h-index

839398

18
g-index

18
all docs

18
docs citations

18
times ranked

751
citing authors

#	ARTICLE	IF	CITATIONS
1	Biocatalysis. Nature Reviews Methods Primers, 2021, 1, .	11.8	255
2	The road to fully programmable protein catalysis. Nature, 2022, 606, 49-58.	13.7	126
3	Synthesis of <sc>D</sc>- and <sc>L</sc>-Phenylalanine Derivatives by Phenylalanine Ammonia Lyases: A Multienzymatic Cascade Process. Angewandte Chemie - International Edition, 2015, 54, 4608-4611.	7.2	100
4	Design and evolution of an enzyme with a non-canonical organocatalytic mechanism. Nature, 2019, 570, 219-223.	13.7	86
5	A versatile biosynthetic approach to amide bond formation. Green Chemistry, 2018, 20, 3426-3431.	4.6	52
6	Phenylalanine Ammonia Lyase Catalyzed Synthesis of Amino Acids by an MIO- Cofactor Independent Pathway. Angewandte Chemie - International Edition, 2014, 53, 4652-4656.	7.2	49
7	The Broad Aryl Acid Specificity of the Amide Bond Synthetase McbA Suggests Potential for the Biocatalytic Synthesis of Amides. Angewandte Chemie - International Edition, 2018, 57, 11584-11588.	7.2	47
8	Bacterial Anabaena variabilis phenylalanine ammonia lyase: A biocatalyst with broad substrate specificity. Bioorganic and Medicinal Chemistry, 2014, 22, 5555-5557.	1.4	40
9	Biocatalytic Synthesis of Chiral N-Functionalized Amino Acids. Angewandte Chemie - International Edition, 2018, 57, 13821-13824.	7.2	34
10	Engineering an efficient and enantioselective enzyme for the Morita-Baylis-Hillman reaction. Nature Chemistry, 2022, 14, 313-320.	6.6	34
11	N-Alkyl- α -amino acids in Nature and their biocatalytic preparation. Journal of Biotechnology, 2019, 293, 56-65.	1.9	28
12	Rewiring the "Push-Pull" Catalytic Machinery of a Heme Enzyme Using an Expanded Genetic Code. ACS Catalysis, 2020, 10, 2735-2746.	5.5	25
13	An Engineered Cytidine Deaminase for Biocatalytic Production of a Key Intermediate of the Covid-19 Antiviral Molnupiravir. Journal of the American Chemical Society, 2022, 144, 3761-3765.	6.6	24
14	Synthesis of <sc>D</sc>- and <sc>L</sc>-Phenylalanine Derivatives by Phenylalanine Ammonia Lyases: A Multienzymatic Cascade Process. Angewandte Chemie, 2015, 127, 4691-4694.	1.6	23
15	The Broad Aryl Acid Specificity of the Amide Bond Synthetase McbA Suggests Potential for the Biocatalytic Synthesis of Amides. Angewandte Chemie, 2018, 130, 11758-11762.	1.6	16
16	Biocatalytic Synthesis of Chiral N-Functionalized Amino Acids. Angewandte Chemie, 2018, 130, 14017-14020.	1.6	14
17	Threonine 57 is required for the post-translational activation of <i>Escherichia coli</i> aspartate α -decarboxylase. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 1166-1172.	2.5	5