Benjamin R Lichman

List of Publications by Year
in descending order

22	926	567281 15	752698 20
papers	citations	h-index	g-index

26	26	26	945
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phylogenomic Mining of the Mints Reveals Multiple Mechanisms Contributing to the Evolution of Chemical Diversity in Lamiaceae. Molecular Plant, 2018, 11, 1084-1096.	8.3	109
2	The scaffold-forming steps of plant alkaloid biosynthesis. Natural Product Reports, 2021, 38, 103-129.	10.3	94
3	Enzymatic and Chemoenzymatic Threeâ€Step Cascades for the Synthesis of Stereochemically Complementary Trisubstituted Tetrahydroisoquinolines. Angewandte Chemie - International Edition, 2017, 56, 12503-12507.	13.8	85
4	Enzyme catalysed Pictet-Spengler formation of chiral 1,1â€™-disubstituted- and spiro-tetrahydroisoquinolines. Nature Communications, 2017, 8, 14883.	12.8	75
5	One-pot triangular chemoenzymatic cascades for the syntheses of chiral alkaloids from dopamine. Green Chemistry, 2015, 17, 852-855.	9.0	70
6	The evolutionary origins of the cat attractant nepetalactone in catnip. Science Advances, 2020, 6, eaba0721.	10.3	70
7	â€˜Dopamineâ€firstâ€™ mechanism enables the rational engineering of the norcoclaurine synthase aldehyde activity profile. FEBS Journal, 2015, 282, 1137-1151.	4.7	60
8	Uncoupled activation and cyclization in catmint reductive terpenoid biosynthesis. Nature Chemical Biology, 2019, 15, 71-79.	8.0	56
9	A transatlantic perspective on 20 emerging issues in biological engineering. ELife, 2017, 6, .	6.0	49
10	Gene and genome duplications in the evolution of chemodiversity: perspectives from studies of Lamiaceae. Current Opinion in Plant Biology, 2020, 55, 74-83.	7.1	44
11	Structural Evidence for the Dopamine-First Mechanism of Norcoclaurine Synthase. Biochemistry, 2017, 56, 5274-5277.	2.5	40
12	Biocatalytic Strategies towards [4+2] Cycloadditions. Chemistry - A European Journal, 2019, 25, 6864-6877.	3.3	38
13	One-pot chemoenzymatic synthesis of trolline and tetrahydroisoquinoline analogues. Chemical Communications, 2018, 54, 1323-1326.	4.1	36
14	Enzymatic and Chemoenzymatic Threeâ€Step Cascades for the Synthesis of Stereochemically Complementary Trisubstituted Tetrahydroisoquinolines. Angewandte Chemie, 2017, 129, 12677-12681.	2.0	21
15	Plant biosynthetic gene clusters in the context of metabolic evolution. Natural Product Reports, 2022, 39, 1465-1482.	10.3	21
16	Nature's Chemists: The Discovery and Engineering of Phytochemical Biosynthesis. Frontiers in Chemistry, 2020, 8, 596479.	3.6	16
17	Cell-Free Total Biosynthesis of Plant Terpene Natural Products Using an Orthogonal Cofactor Regeneration System. ACS Catalysis, 2021, 11, 9898-9903.	11.2	16
18	The Folding of a Family of Three-Helix Bundle Proteins: Spectrin R15 Has a Robust Folding Nucleus, Unlike Its Homologous Neighbours. Journal of Molecular Biology, 2014, 426, 1600-1610.	4.2	11

#	Article	IF	Citations
19	Single step syntheses of (1S)-aryl-tetrahydroisoquinolines by norcoclaurine synthases. Communications Chemistry, 2020, 3, .	4.5	10
20	Phylogeny-Aware Chemoinformatic Analysis of Chemical Diversity in Lamiaceae Enables Iridoid Pathway Assembly and Discovery of Aucubin Synthase. Molecular Biology and Evolution, 2022, 39, .	8.9	4
21	Frontispiece: Biocatalytic Strategies towards [4+2] Cycloadditions. Chemistry - A European Journal, 2019, 25, .	3.3	0
22	Dreaming of clean bean protein. Nature Plants, 2021, 7, 860-861.	9.3	0