Lorenzo Caputi

List of Publications by Year
in descending order

35 papers	2,161 citations	331259 21 h-index	377514 34 g-index
38 all docs	38 docs citations	38 times ranked	3076 citing authors

#	Article	IF	Citations
1	Missing enzymes in the biosynthesis of the anticancer drug vinblastine in Madagascar periwinkle. Science, 2018, 360, 1235-1239.	6.0	279
2	A genomeâ€wide phylogenetic reconstruction of family 1 UDPâ€glycosyltransferases revealed the expansion of the family during the adaptation of plants to life on land. Plant Journal, 2012, 69, 1030-1042.	2.8	270
3	A Versatile Targeted Metabolomics Method for the Rapid Quantification of Multiple Classes of Phenolics in Fruits and Beverages. Journal of Agricultural and Food Chemistry, 2012, 60, 8831-8840.	2.4	267
4	Use of Terpenoids as Natural Flavouring Compounds in Food Industry. Recent Patents on Food, Nutrition & Agriculture, 2011, 3, 9-16.	0.5	129
5	Unlocking the Diversity of Alkaloids in Catharanthus roseus: Nuclear Localization Suggests Metabolic Channeling in Secondary Metabolism. Chemistry and Biology, 2015, 22, 336-341.	6.2	103
6	Gibberellin metabolism in Vitis vinifera L. during bloom and fruit-set: functional characterization and evolution of grapevine gibberellin oxidases. Journal of Experimental Botany, 2013, 64, 4403-4419.	2.4	102
7	Structural investigation of heteroyohimbine alkaloid synthesis reveals active site elements that control stereoselectivity. Nature Communications, 2016, 7, 12116.	5.8	85
8	Crucial pathophysiological role of CXCR2 in experimental ulcerative colitis in mice. Journal of Leukocyte Biology, 2007, 82, 1239-1246.	1.5	83
9	Relationship of Changes in Rotundone Content during Grape Ripening and Winemaking to Manipulation of the â€˜Pepperyâ€™ Character of Wine. Journal of Agricultural and Food Chemistry, 2011, 59, 5565-5571.	2.4	81
10	Discovery of New Biocatalysts for the Glycosylation of Terpenoid Scaffolds. Chemistry - A European Journal, 2008, 14, 6656-6662.	1.7	77
11	LC-MS based global metabolite profiling of grapes: solvent extraction protocol optimisation. Metabolomics, 2012, 8, 175-185.	1.4	72
12	The complexity of intercellular localisation of alkaloids revealed by singleâ€cell metabolomics. New Phytologist, 2019, 224, 848-859.	3.5	65
13	Discovery and Reconstitution of the Cycloclavine Biosynthetic Pathwayâ€”Enzymatic Formation of a Cyclopropyl Group. Angewandte Chemie - International Edition, 2015, 54, 5117-5121.	7.2	61
14	Structural determinants of reductive terpene cyclization in iridoid biosynthesis. Nature Chemical Biology, 2016, 12, 6-8.	3.9	58
15	The crystal structure of Erwinia amylovora levansucrase provides a snapshot of the products of sucrose hydrolysis trapped into the active site. Journal of Structural Biology, 2015, 191, 290-298.	1.3	56
16	Biomolecular Characterization of the Levansucrase of Erwinia amylovora, a Promising Biocatalyst for the Synthesis of Fructooligosaccharides. Journal of Agricultural and Food Chemistry, 2013, 61, 12265-12273.	2.4	45
17	Biosynthesis of an Anti-Addiction Agent from the Iboga Plant. Journal of the American Chemical Society, 2019, 141, 12979-12983.	6.6	39
18	Effective analysis of rotundone at belowâ€threshold levels in red and white wines using solidâ€phase microextraction gas chromatography/tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 483-488.	0.7	38

#	Article	IF	Citations
19	Structural basis of cycloaddition in biosynthesis of iboga and aspidosperma alkaloids. Nature Chemical Biology, 2020, 16, 383-386.	3.9	33
20	Identification of iridoid synthases from Nepeta species: Iridoid cyclization does not determine nepetalactone stereochemistry. Phytochemistry, 2018, 145, 48-56.	1.4	29
21	Structural characterization of EasH (Aspergillus japonicus) â€“ an oxidase involved in cycloclavine biosynthesis. Chemical Communications, 2016, 52, 14306-14309.	2.2	28
22	Enzymatic synthesis of nucleobase-modified UDP-sugars: scope and limitations. Carbohydrate Research, 2015, 404, 17-25.	1.1	21
23	Discovery of a Shortâ€Chain Dehydrogenase from Catharanthus roseus that Produces a New Monoterpene Indole Alkaloid. ChemBioChem, 2018, 19, 940-948.	1.3	20
24	Improved virus-induced gene silencing allows discovery of a serpentine synthase gene in Catharanthus roseus. Plant Physiology, 2021, 187, 846-857.	2.3	20
25	Discovery and Reconstitution of the Cycloclavine Biosynthetic Pathwayâ€”Enzymatic Formation of a Cyclopropyl Group. Angewandte Chemie, 2015, 127, 5206-5210.	1.6	19
26	Cloning, expression, purification, crystallization and preliminary X-ray analysis ofEaLsc, a levansucrase fromErwinia amylovora. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 570-573.	0.7	15
27	Nicotiana benthamiana as a Transient Expression Host to Produce Auxin Analogs. Frontiers in Plant Science, 2020, 11, 581675.	1.7	15
28	A one-pot enzymatic approach to the O-fluoroglucoside of N-methylanthranilate. Bioorganic and Medicinal Chemistry, 2013, 21, 4762-4767.	1.4	8
29	Hairy root transformation of Brassica rapa with bacterial halogenase genes and regeneration to adult plants to modify production of indolic compounds. Phytochemistry, 2020, 175, 112371.	1.4	8
30	A new microperoxidase from Marinobacter hydrocarbonoclasticus. Biochimica Et Biophysica Acta - General Subjects, 2005, 1725, 71-80.	1.1	7
31	Chlorinated Auxinsâ€”How Does Arabidopsis Thaliana Deal with Them?. International Journal of Molecular Sciences, 2020, 21, 2567.	1.8	7
32	Directed Biosynthesis of New to Nature Alkaloids in a Heterologous Nicotiana benthamiana Expression Host. Frontiers in Plant Science, 0, 13, .	1.7	5
33	Characterization of a novel microperoxidase fromMarinobacter hydrocarbonoclasticus by electrospray ionization tandem mass spectrometry. Journal of Mass Spectrometry, 2005, 40, 325-330.	0.7	4
34	Cloning, purification, crystallization and 1.57â€…Ã… resolution X-ray data analysis of AmsI, the tyrosine phosphatase controlling amylovoran biosynthesis in the plant pathogenErwinia amylovora. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 1693-1696.	0.4	4
35	Strategies to Produce Chlorinated Indoleâ€3â€Acetic Acid and Indoleâ€3â€Acetic Acid Intermediates. ChemistrySelect, 2017, 2, 11148-11153.	0.7	4