Albrecht Roscher

List of Publications by Year
in descending order

22 papers	807 citations	623734 14 h-index	677142 22 g-index
22 all docs	22 docs citations	22 times ranked	1022 citing authors

#	Article	IF	Citations
1	Fructose 2,6-bisphosphate activates pyrophosphate: fructose-6-phosphate 1-phosphotransferase and increases triose phosphate to hexose phosphate cycling in heterotrophic cells. Planta, 2001, 212, 250-263.	3.2	223
2	Strategies for metabolic flux analysis in plants using isotope labelling. Journal of Biotechnology, 2000, 77, 81-102.	3.8	111
3	Resolving the Role of Plant Glutamate Dehydrogenase. I. in vivo Real Time Nuclear Magnetic Resonance Spectroscopy Experiments. Plant and Cell Physiology, 2009, 50, 1761-1773.	3.1	110
4	Plant NMR spectroscopy. Progress in Nuclear Magnetic Resonance Spectroscopy, 2001, 39, 267-300.	7.5	72
5	Unidirectional Steady State Rates of Central Metabolism Enzymes Measured Simultaneously in a Living Plant Tissue. Journal of Biological Chemistry, 1998, 273, 25053-25061.	3.4	41
6	Microwave-Assisted Extraction of Herbacetin Diglucoside from Flax (Linum usitatissimum L.) Seed Cakes and Its Quantification using an RP-HPLC-UV System. Molecules, 2014, 19, 3025-3037.	3.8	40
7	In vivo 13C NMR determines metabolic fluxes and steady state in linseed embryos. Phytochemistry, 2007, 68, 2341-2350.	2.9	28
8	Kinetics of the incorporation of the main phenolic compounds into the lignan macromolecule during flaxseed development. Food Chemistry, 2017, 217, 1-8.	8.2	28
9	Evidence for the involvement of tetrahydrofolate in the demethylation of nicotine by Nicotiana plumbaginifolia cell-suspension cultures. Planta, 2002, 214, 911-919.	3.2	26
10	Activation of pyrophosphate:fructose-6-phosphate 1-phosphotransferase by fructose 2,6-bisphosphate stimulates conversion of hexose phosphates to triose phosphates but does not influence accumulation of carbohydrates in phosphate-deficient tobacco cells. Physiologia Plantarum, 2002, 114, 172-181.	5.2	22
11	Nicotine demethylation in Nicotiana cell suspension cultures: Nâ€²-formylnornicotine is not involved. Phytochemistry, 2005, 66, 2432-2440.	2.9	22
12	Gas chromatographyâ€“mass spectrometry analysis of 13C labeling in sugars for metabolic flux analysis. Analytical Biochemistry, 2012, 425, 183-188.	2.4	19
13	Development of an NMR metabolomics-based tool for selection of flaxseed varieties. Metabolomics, 2014, 10, 1258-1267.	3.0	17
14	Progress in understanding the N-demethylation of alkaloids by exploiting isotopic techniques. Phytochemistry Reviews, 2007, 6, 51-63.	6.5	14
15	Concentration Kinetics of Secoisolariciresinol Diglucoside and its Biosynthetic Precursor Coniferin in Developing Flaxseed. Phytochemical Analysis, 2013, 24, 41-46.	2.4	9
16	Stereoselectivity of the demethylation of nicotine piperidine homologues by Nicotiana plumbaginifolia cell suspension cultures. Phytochemistry, 2005, 66, 1890-1897.	2.9	8
17	Optimisation of 1D and 2D in vivo 1H NMR to study tropane alkaloid metabolism in Pseudomonas. Comptes Rendus Chimie, 2008, 11, 457-464.	0.5	6
18	Optimised NMR detection of 13Câ€“2H double labelling in small molecules. Comptes Rendus Chimie, 2006, 9, 514-519.	0.5	4

#	Article	IF	Citations
19	In Vivo NMR for 13C metabolic Flux Analysis. Methods in Molecular Biology, 2014, 1090, 143-152.	0.9	3
20	Quantifying 13C-labeling in Free Sugars and Starch by GC-MS. Methods in Molecular Biology, 2014, 1090, 121-130.	0.9	2
21	15N relaxation and quantification of 15N-labelled metabolites in cell extracts. Comptes Rendus Chimie, 2006, 9, 520-524.	0.5	1
22	In Vivo Use of 1D and 2D 1H NMR to Examine the Glycosylation of Scopoletin in Duboisia myoporoides Cell Suspensions. Planta Medica, 2018, 84, 971-975.	1.3	1