

Richard J Robins

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#	Paper	IF	Citations
159	Molecular Paleohydrology: Interpreting the Hydrogen-Isotopic Composition of Lipid Biomarkers from Photosynthesizing Organisms. <i>Annual Review of Earth and Planetary Sciences</i> , 2012 , 40, 221-249	15.3	598
158	Over-expressing a yeast ornithine decarboxylase gene in transgenic roots of <i>Nicotiana rustica</i> can lead to enhanced nicotine accumulation. <i>Plant Molecular Biology</i> , 1990 , 15, 27-38	4.6	154
157	New Routes to Plant Secondary Products. <i>Nature Biotechnology</i> , 1987 , 5, 800-804	44.5	119
156	Efficient enantiomeric synthesis of pyrrolidine and piperidine alkaloids from tobacco. <i>Journal of Organic Chemistry</i> , 2001 , 66, 6305-12	4.2	110
155	Variation in tropane alkaloid accumulation within the solanaceae and strategies for its exploitation. <i>Phytochemistry</i> , 1990 , 29, 2545-2550	4	98
154	Accurate quantitative ¹³ C NMR spectroscopy: repeatability over time of site-specific ¹³ C isotope ratio determination. <i>Analytical Chemistry</i> , 2007 , 79, 8266-9	7.8	79
153	Isotopic ¹³ C NMR spectrometry to assess counterfeiting of active pharmaceutical ingredients: site-specific ¹³ C content of aspirin and paracetamol. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009 , 50, 336-41	3.5	74
152	Studies on the biosynthesis of tropane alkaloids in <i>Datura stramonium</i> L. transformed root cultures : 1. The kinetics of alkaloid production and the influence of feeding intermediate metabolites. <i>Planta</i> , 1991 , 183, 185-95	4.7	73
151	Determination of substrate and product concentrations in lactic acid bacterial fermentations by proton NMR using the ERETIC method. <i>Analytical Chemistry</i> , 2001 , 73, 1862-8	7.8	72
150	Authentication of the origin of vanillin using quantitative natural abundance ¹³ C NMR. <i>Journal of Agricultural and Food Chemistry</i> , 2004 , 52, 7782-7	5.7	69
149	The stimulation of anthraquinone production by <i>Cinchona ledgeriana</i> cultures with polymeric adsorbents. <i>Applied Microbiology and Biotechnology</i> , 1986 , 24, 35	5.7	69
148	Alkaloid Production by Transformed Root Cultures of <i>Cinchona ledgeriana</i> . <i>Planta Medica</i> , 1989 , 55, 354-7	7.1	62
147	Accurate quantitative isotopic ¹³ C NMR spectroscopy for the determination of the intramolecular distribution of ¹³ C in glucose at natural abundance. <i>Analytical Chemistry</i> , 2009 , 81, 8978-85	7.8	60
146	NMR approach to the quantification of nonstatistical ¹³ C distribution in natural products: vanillin. <i>Analytical Chemistry</i> , 2004 , 76, 3818-25	7.8	60
145	Simultaneous determination of glutathione and cysteine concentrations and ² H enrichments in microvolumes of neonatal blood using gas chromatography-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 1403-12	4.4	57
144	Intramolecular ¹³ C pattern in hexoses from autotrophic and heterotrophic C3 plant tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 18204-9	11.5	56
143	Studies on the biosynthesis of tropane alkaloids in <i>Datura stramonium</i> L. transformed root cultures : 2. On the relative contributions of L-arginine and L-ornithine to the formation of the tropane ring. <i>Planta</i> , 1991 , 183, 196-201	4.7	54

142	Multi-factorial in vivo stable isotope fractionation: causes, correlations, consequences and applications. <i>Isotopes in Environmental and Health Studies</i> , 2015 , 51, 155-99	1.5	53
141	$\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ in hair from newborn infants and their mothers: a cohort study. <i>Pediatric Research</i> , 2012 , 71, 598-604	3.2	53
140	Perturbation of alkaloid production by cadaverine in hairy root cultures of <i>Nicotiana rustica</i> . <i>Plant Science</i> , 1988 , 54, 125-131	5.3	53
139	^1H -NMR-based metabolic profiling of maternal and umbilical cord blood indicates altered materno-foetal nutrient exchange in preterm infants. <i>PLoS ONE</i> , 2012 , 7, e29947	3.7	50
138	Unexpected fractionation in site-specific ^{13}C isotopic distribution detected by quantitative ^{13}C NMR at natural abundance. <i>Journal of the American Chemical Society</i> , 2008 , 130, 414-5	16.4	47
137	The intramolecular ^{13}C -distribution in ethanol reveals the influence of the CO_2 fixation pathway and environmental conditions on the site-specific ^{13}C variation in glucose. <i>Plant, Cell and Environment</i> , 2011 , 34, 1104-12	8.4	46
136	Analysis of molecular isotopic structures at high precision and accuracy by Orbitrap mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2017 , 422, 126-142	1.9	45
135	The Biosynthesis of Tropane Alkaloids in <i>Datura stramonium</i> : The Identity of the Intermediates between N-Methylpyrrolinium Salt and Tropinone. <i>Journal of the American Chemical Society</i> , 1997 , 119, 10929-10934	16.4	41
134	Measurement of ^2H distribution in natural products by quantitative ^2H NMR: An approach to understanding metabolism and enzyme mechanism?. <i>Phytochemistry Reviews</i> , 2003 , 2, 87-102	7.7	40
133	Biosynthesis of hyoscyamine involves an intramolecular rearrangement of littorine. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1994 , 615		40
132	Permeabilization of <i>Cinchona ledgeriana</i> cells by dimethylsulphoxide. effects on alkaloid release and long-term membrane integrity. <i>Plant Cell Reports</i> , 1984 , 3, 262-5	5.1	40
131	A ^{13}C NMR spectrometric method for the determination of intramolecular ^{13}C values in fructose from plant sucrose samples. <i>New Phytologist</i> , 2011 , 191, 579-588	9.8	38
130	The nicotinic pharmacophore: thermodynamics of the hydrogen-bonding complexation of nicotine, nornicotine, and models. <i>Journal of Organic Chemistry</i> , 2003 , 68, 8208-21	4.2	38
129	Tryptophan decarboxylase strictosidine synthase and alkaloid production by <i>Cinchona ledgeriana</i> suspension cultures. <i>Phytochemistry</i> , 1987 , 26, 721-725	4	38
128	Cord blood glutathione depletion in preterm infants: correlation with maternal cysteine depletion. <i>PLoS ONE</i> , 2011 , 6, e27626	3.7	36
127	Natural deuterium distribution in long-chain fatty acids is nonstatistical: a site-specific study by quantitative (^2H) NMR spectroscopy. <i>ChemBioChem</i> , 2001 , 2, 425-31	3.8	35
126	Levels of tropinone-reductase activities influence the spectrum of tropane esters found in transformed root cultures of <i>Datura stramonium</i> L. <i>Planta</i> , 1992 , 188, 581-6	4.7	35
125	Phytochemicals isolated from leaves of <i>Chromolaena odorata</i> : impact on viability and clonogenicity of cancer cell lines. <i>Phytotherapy Research</i> , 2013 , 27, 835-40	6.7	34

124	Investigation of fatty acid elongation and desaturation steps in <i>Fusarium lateritium</i> by quantitative two-dimensional deuterium NMR spectroscopy in chiral oriented media. <i>Journal of Biological Chemistry</i> , 2009 , 284, 10783-92	5.4	34
123	Characterization of nitrogen relationships between <i>Sorghum bicolor</i> and the root-hemiparasitic angiosperm <i>Striga hermonthica</i> (Del.) Benth. using K15 NO ₃ as isotopic tracer. <i>Journal of Experimental Botany</i> , 2003 , 54, 789-99	7	34
122	<i>Nauclea latifolia</i> : biological activity and alkaloid phytochemistry of a West African tree. <i>Natural Product Reports</i> , 2016 , 33, 1034-43	15.1	32
121	Correlation between the synthetic origin of methamphetamine samples and their 15N and 13C stable isotope ratios. <i>Analytica Chimica Acta</i> , 2007 , 593, 20-9	6.6	32
120	Determination of deuterium isotope ratios by quantitative 2H NMR spectroscopy: the ERETIC method as a generic reference signal. <i>Analytical Chemistry</i> , 2002 , 74, 5902-6	7.8	31
119	Conditions to obtain precise and true measurements of the intramolecular 13C distribution in organic molecules by isotopic 13C nuclear magnetic resonance spectrometry. <i>Analytica Chimica Acta</i> , 2014 , 846, 1-7	6.6	27
118	Occurrence of the synthetic analgesic tramadol in an African medicinal plant. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11780-4	16.4	27
117	Biochemical and physiological determinants of intramolecular isotope patterns in sucrose from C ₃ and CAM plants accessed by isotopic 13C NMR spectrometry: a viewpoint. <i>Natural Product Reports</i> , 2012 , 29, 476-86	15.1	27
116	Tropic acid ester biosynthesis in <i>Datura stramonium</i> and related species. <i>Chemical Society Reviews</i> , 1998 , 27, 207	58.5	27
115	Assignment of absolute configuration of natural abundance deuterium signals associated with (R)- and (S)-enantiomers in a fatty acid aligned in a chiral liquid crystal: enantioselective synthesis and NMR analysis. <i>Journal of the American Chemical Society</i> , 2006 , 128, 11180-7	16.4	26
114	A short and efficient synthesis of unnatural (R)-nicotine. <i>Tetrahedron Letters</i> , 2000 , 41, 9245-9249	2	26
113	Nonstatistical 13C distribution during carbon transfer from glucose to ethanol during fermentation is determined by the catabolic pathway exploited. <i>Journal of Biological Chemistry</i> , 2015 , 290, 4118-28	5.4	25
112	Higher Leptin but Not Human Milk Macronutrient Concentration Distinguishes Normal-Weight from Obese Mothers at 1-Month Postpartum. <i>PLoS ONE</i> , 2016 , 11, e0168568	3.7	25
111	Fractionation in position-specific isotope composition during vaporization of environmental pollutants measured with isotope ratio monitoring by 13C nuclear magnetic resonance spectrometry. <i>Environmental Pollution</i> , 2015 , 205, 299-306	9.3	24
110	Position-Specific Isotope Analysis of Xanthines: A (13)C Nuclear Magnetic Resonance Method to Determine the (13)C Intramolecular Composition at Natural Abundance. <i>Analytical Chemistry</i> , 2015 , 87, 6600-6	7.8	24
109	Quantitative isotopic 13C nuclear magnetic resonance at natural abundance to probe enzyme reaction mechanisms via site-specific isotope fractionation: the case of the chain-shortening reaction for the bioconversion of ferulic acid to vanillin. <i>Analytical Biochemistry</i> , 2009 , 393, 182-8	3.1	24
108	Natural deuterium distribution in fatty acids isolated from peanut seed oil: a site-specific study by quantitative 2H NMR spectroscopy. <i>ChemBioChem</i> , 2002 , 3, 752-9	3.8	24
107	Evidence for the involvement of tetrahydrofolate in the demethylation of nicotine by <i>Nicotiana glauca</i> cell-suspension cultures. <i>Planta</i> , 2002 , 214, 911-9	4.7	24

106	The biosynthesis of hyoscyamine: the process by which littorine rearranges to hyoscyamine. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1995 , 481		24
105	In vivo ¹⁵ N NMR studies of secondary metabolism in transformed root cultures of <i>Datura stramonium</i> and <i>Nicotiana tabacum</i> . <i>Phytochemistry</i> , 1994 , 36, 333-339	4	24
104	Human baby hair amino acid natural abundance ¹⁵ N-isotope values are not related to the ¹⁵ N-isotope values of amino acids in mother's breast milk protein. <i>Amino Acids</i> , 2013 , 45, 1365-72	3.5	23
103	Rate of carbon dioxide production and energy expenditure in fed and food-deprived adult dogs determined by indirect calorimetry and isotopic methods. <i>American Journal of Veterinary Research</i> , 2002 , 63, 111-8	1.1	23
102	Quinoline Alkaloid Production by Transformed Cultures of <i>Cinchona ledgeriana</i> . <i>Planta Medica</i> , 1987 , 53, 367-72	3.1	23
101	A retro-biosynthetic approach to the prediction of biosynthetic pathways from position-specific isotope analysis as shown for tramadol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 8296-301	11.5	22
100	Chiral specificity of the degradation of nicotine by <i>Nicotiana plumbaginifolia</i> cell suspension cultures. <i>Plant Science</i> , 2001 , 161, 1011-1018	5.3	22
99	Apparent free space and cell volume estimation: A non-destructive method for assessing the growth and membrane integrity/viability of immobilised plant cells. <i>Plant Cell Reports</i> , 1984 , 3, 161-4	5.1	22
98	Internal Referencing for ¹³ C Position-Specific Isotope Analysis Measured by NMR Spectrometry. <i>Analytical Chemistry</i> , 2015 , 87, 7550-4	7.8	21
97	Evidence of ¹³ C non-covalent isotope effects obtained by quantitative ¹³ C nuclear magnetic resonance spectroscopy at natural abundance during normal phase liquid chromatography. <i>Journal of Chromatography A</i> , 2009 , 1216, 7043-8	4.5	21
96	Natural deuterium distribution in branched-chain medium-length fatty acids is nonstatistical: a site-specific study by quantitative ² H NMR spectroscopy of the fatty acids of capsaicinoids. <i>ChemBioChem</i> , 2002 , 3, 212-8	3.8	21
95	Specificities of the enzymes of N-alkyltropine biosynthesis in <i>Brugmansia</i> and <i>Datura</i> . <i>Phytochemistry</i> , 1999 , 52, 871-8	4	21
94	Nicotine demethylation in <i>Nicotiana</i> cell suspension cultures: N'-formylnornicotine is not involved. <i>Phytochemistry</i> , 2005 , 66, 2432-40	4	20
93	In vivo NMR analysis of tropane alkaloid metabolism in transformed root and de-differentiated cultures of <i>Datura stramonium</i> . <i>Phytochemistry</i> , 1996 , 43, 115-120	4	20
92	Insights into Mechanistic Models for Evaporation of Organic Liquids in the Environment Obtained by Position-Specific Carbon Isotope Analysis. <i>Environmental Science & Technology</i> , 2015 , 49, 12782-8 ^{10.3}		19
91	Metabolic flux in glucose/citrate co-fermentation by lactic acid bacteria as measured by isotopic ratio analysis. <i>FEMS Microbiology Letters</i> , 2000 , 182, 207-11	2.9	19
90	The biosynthesis of tropic acid in plants: evidence for the direct rearrangement of 3-phenyllactate to tropate. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1994 , 1159		19
89	Biosynthesis of nornicotine in root cultures of <i>Nicotiana glauca</i> does not involve oxidation at C-5' of nicotine. <i>Phytochemistry</i> , 1997 , 46, 117-122	4	18

88	An enzyme-linked immunosorbent assay for quassin and closely related metabolites. <i>Analytical Biochemistry</i> , 1984 , 136, 145-56	3.1	18
87	Exploration of Biological Markers of Feed Efficiency in Young Bulls. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 9817-9827	5.7	17
86	Deuterium NMR used to indicate a common mechanism for the biosynthesis of ricinoleic acid by <i>Ricinus communis</i> and <i>Claviceps purpurea</i> . <i>Journal of the American Chemical Society</i> , 2004 , 126, 3250-6	16.4	17
85	The prediction of isotopic patterns in phenylpropanoids from their precursors and the mechanism of the NIH-shift: basis of the isotopic characteristics of natural aromatic compounds. <i>Phytochemistry</i> , 2006 , 67, 1094-103	4	16
84	Quantitative ² H NMR at natural abundance can distinguish the pathway used for glucose fermentation by lactic acid bacteria. <i>Journal of Biological Chemistry</i> , 2004 , 279, 24923-8	5.4	16
83	Quantitative ² H NMR analysis of deuterium distribution in petroselinic acid isolated from parsley seed. <i>Phytochemistry</i> , 2003 , 64, 227-33	4	16
82	Natural abundance hydrogen isotope affiliation between the reactants and the products in glucose fermentation with yeast. <i>Journal of Agricultural and Food Chemistry</i> , 2003 , 51, 2076-82	5.7	16
81	Metabolism of N-alkyldiamines and N-alkylnortropinones by transformed root cultures of <i>Nicotiana</i> and <i>Brugmansia</i> . <i>Phytochemistry</i> , 1999 , 52, 855-869	4	16
80	Esterification reactions in the biosynthesis of tropane alkaloids in transformed root cultures. <i>Plant Cell, Tissue and Organ Culture</i> , 1994 , 38, 241-247	2.7	16
79	Strategies for the genetic manipulation of alkaloid-producing pathways in plants. <i>Planta Medica</i> , 1991 , 57, S27-35	3.1	16
78	High-performance liquid chromatographic methods for the analysis and purification of quassinoids from <i>Quassia amara</i> L.. <i>Journal of Chromatography A</i> , 1984 , 283, 436-440	4.5	16
77	Enhanced forensic discrimination of pollutants by position-specific isotope analysis using isotope ratio monitoring by (¹³ C) nuclear magnetic resonance spectrometry. <i>Talanta</i> , 2016 , 147, 383-9	6.2	15
76	In vivo nuclear-magnetic-resonance analysis of polyamine and alkaloid metabolism in transformed root cultures of <i>Datura stramonium</i> L.: evidence for the involvement of putrescine in phytohormone-induced de-differentiation. <i>Planta</i> , 1998 , 205, 205-213	4.7	15
75	The application of root cultures to problems of biological chemistry. <i>Natural Product Reports</i> , 1998 , 15, 549	15.1	15
74	The biosynthesis of tropic acid: the (R)-D-phenyllactyl moiety is processed by the mutase involved in hyoscyamine biosynthesis in <i>Datura stramonium</i> . <i>Journal of the Chemical Society Chemical Communications</i> , 1995 , 127		15
73	Scanning the isotopic structure of molecules by tandem mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2018 , 434, 276-286	1.9	14
72	Analytical model for site-specific isotope fractionation in ¹³ C during sorption: determination by isotopic ¹³ C NMR spectrometry with vanillin as model compound. <i>Chemosphere</i> , 2012 , 87, 445-52	8.4	14
71	Simultaneous determination of natural-abundance ¹⁵ N values and quantities of individual amino acids in proteins from milk of lactating women and from infant hair using gas chromatography/isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 1315-53	2.2	14

70	Elucidation of the mechanism of N-demethylation catalyzed by cytochrome P450 monooxygenase is facilitated by exploiting nitrogen-15 heavy isotope effects. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 510, 35-41	4.1	13
69	Non-equivalence of hydrogen transfer from glucose to the pro-R and pro-S methylene positions of ethanol during fermentation by <i>Leuconostoc mesenteroides</i> quantified by ² H NMR at natural abundance. <i>Journal of Biological Chemistry</i> , 2008 , 283, 9704-12	5.4	13
68	Determination of ¹³ C isotopic enrichment of glutathione and glycine by gas chromatography/combustion/isotope ratio mass spectrometry after formation of the N- or N,S-ethoxycarbonyl methyl ester derivatives. <i>Rapid Communications in Mass Spectrometry</i> , 2007 , 21, 3245-52	2.2	13
67	Progress in understanding the N-demethylation of alkaloids by exploiting isotopic techniques. <i>Phytochemistry Reviews</i> , 2007 , 6, 51-63	7.7	13
66	Quantitative deuterium isotopic profiling at natural abundance indicates mechanistic differences for delta 12-epoxidase and delta 12-desaturase in <i>Vernonia galamensis</i> . <i>Journal of Biological Chemistry</i> , 2005 , 280, 17645-51	5.4	13
65	Position-Specific C Fractionation during Liquid-Vapor Transition Correlated to the Strength of Intermolecular Interaction in the Liquid Phase. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 5810-5817	3.4	12
64	Non-statistical ¹³ C Fractionation Distinguishes Co-incident and Divergent Steps in the Biosynthesis of the Alkaloids Nicotine and Tropine. <i>Journal of Biological Chemistry</i> , 2016 , 291, 16620-9	5.4	12
63	Probing substrate-product relationships by natural abundance deuterium 2D NMR spectroscopy in liquid-crystalline solvents: epoxidation of linoleate to vernoleate by two different plant enzymes. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 2985-98	4.4	12
62	Cytochrome P450-catalyzed degradation of nicotine: fundamental parameters determining hydroxylation by cytochrome P450 2A6 at the 5'-carbon or the n-methyl carbon. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 7827-40	3.4	12
61	Investigation of the mechanism of nicotine demethylation in <i>Nicotiana</i> through ² H and ¹⁵ N heavy isotope effects: implication of cytochrome P450 oxidase and hydroxyl ion transfer. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 458, 175-83	4.1	12
60	Altered nitrogen metabolism associated with de-differentiated suspension cultures derived from root cultures of <i>Datura stramonium</i> studied by heteronuclear multiple bond coherence (HMBC) NMR spectroscopy. <i>Journal of Experimental Botany</i> , 2004 , 55, 1053-60	7	12
59	Uncharacteristic alkaloid synthesis by suspension cultures of <i>Cinchona pubescens</i> fed with L-tryptophan. <i>Plant Cell, Tissue and Organ Culture</i> , 1987 , 9, 49-59	2.7	11
58	Natural (¹⁵ N) Abundance in Key Amino Acids from Lamb Muscle: Exploring a New Horizon in Diet Authentication and Assessment of Feed Efficiency in Ruminants. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 4058-67	5.7	11
57	Biomimetic synthesis of Tramadol. <i>Chemical Communications</i> , 2015 , 51, 14451-3	5.8	10
56	Evolution of the amino acid fingerprint in the unsterilized rhizosphere of a legume in relation to plant maturity. <i>Soil Biology and Biochemistry</i> , 2016 , 101, 226-236	7.5	10
55	The role of glutathione in amino acid absorption by yeast. <i>FEBS Letters</i> , 1980 , 111, 432	3.8	10
54	Lack of correlation between glutathione turnover and amino acid absorption by the yeast <i>Saccharomyces cerevisiae</i> . <i>Phytochemistry</i> , 1981 , 20, 1497-1499	4	10
53	Effect of water availability on changes in root amino acids and associated rhizosphere on root exudation of amino acids in <i>Pisum sativum</i> L. <i>Phytochemistry</i> , 2019 , 161, 75-85	4	10

52	Insights into the role of methionine synthase in the universal C depletion in O- and N-methyl groups of natural products. <i>Archives of Biochemistry and Biophysics</i> , 2017 , 635, 60-65	4.1	9
51	Impact of the deuterium isotope effect on the accuracy of ¹³ C NMR measurements of site-specific isotope ratios at natural abundance in glucose. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1979-84	4.4	9
50	An evaluation of the tautomerism of cinchoninone and quinidinone made using a combination of ¹ H NMR and ¹³ C NMR spectroscopy. <i>Phytochemistry</i> , 1987 , 26, 551-556	4	9
49	The use of agarose bead culture for the regeneration of single cell-derived colonies from protoplasts isolated from suspension cultures of <i>Humulus lupulus</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 1987 , 8, 17-25	2.7	8
48	Non-statistical isotope fractionation as a novel Retro-biosynthetic Approach to understanding alkaloid metabolic pathways. <i>Phytochemistry Letters</i> , 2017 , 20, 499-506	1.9	7
47	Probing stereoselectivity and pro-chirality of hydride transfer during short-chain alcohol dehydrogenase activity: a combined quantitative ² H NMR and computational approach. <i>Archives of Biochemistry and Biophysics</i> , 2009 , 482, 42-51	4.1	7
46	Determination of the natural abundance $\delta^{15}\text{N}$ of nortropine alkaloids by gas chromatography-isotope ratio mass spectrometry of their ethylcarbamate esters. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 1405-14	4.4	7
45	Determination of the natural abundance $\delta^{15}\text{N}$ of nicotine and related alkaloids by gas chromatography/isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 2039-44	2.2	7
44	Predicting equilibrium vapour pressure isotope effects by using artificial neural networks or multi-linear regression - A quantitative structure property relationship approach. <i>Chemosphere</i> , 2015 , 134, 521-7	8.4	6
43	Cytochrome P450 Monooxygenase-Catalyzed Ring Opening of the Bicyclic Amine, Nortropine: An Experimental and DFT Computational Study. <i>ChemCatChem</i> , 2012 , 4, 530-539	5.2	6
42	Optimisation of 1D and 2D in vivo ¹ H NMR to study tropane alkaloid metabolism in <i>Pseudomonas</i> . <i>Comptes Rendus Chimie</i> , 2008 , 11, 457-464	2.7	6
41	Stereoselectivity of the demethylation of nicotine piperidine homologues by <i>Nicotiana glauca</i> cell suspension cultures. <i>Phytochemistry</i> , 2005 , 66, 1890-7	4	6
40	A spectrophotometric assay for strictosidine synthase. <i>Analytical Biochemistry</i> , 1987 , 163, 482-8	3.1	6
39	A Ring-D-Seco-Tetranortriterpenoid from Seeds of <i>Carapa procera</i> Active against Breast Cancer Cell Lines. <i>Planta Medica</i> , 2016 , 82, 967-72	3.1	6
38	Occurrence of the Synthetic Analgesic Tramadol in an African Medicinal Plant. <i>Angewandte Chemie</i> , 2013 , 125, 11996-12000	3.6	5
37	Determination of nitrogen-15 isotope fractionation in tropine: evaluation of extraction protocols for isotope ratio measurement by isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 4031-7	2.2	5
36	A Short and Efficient Synthesis of Bridgehead Mono- and Dideuteriated Tropinones. <i>European Journal of Organic Chemistry</i> , 2010 , 2010, 152-156	3.2	5
35	The fiftieth anniversary meeting of the Phytochemical Society of Europe: Churchill College, Cambridge, 11-14 April 2007 Highlights in the Evolution of Phytochemistry. <i>Phytochemistry</i> , 2007 , 68, 2699-2704	4	5

34	Chapter 2 The Biosynthesis of Tropane Alkaloids. <i>Alkaloids: Chemistry and Pharmacology</i> , 1993 , 44, 115-187	5
33	Progress in the Genetic Engineering of the Pyridine and Tropane Alkaloid Biosynthetic Pathways of Solanaceous Plants 1994 , 1-33	5
32	Analytical contribution of deuterium 2D-NMR in oriented media to 2H/1H isotopic characterization: the case of vanillin. <i>Flavour and Fragrance Journal</i> , 2018 , 33, 217-229	2.5 4
31	Impact on bulk 15N natural isotopic abundance in hair of kidney function in type 2 diabetic nephropathy. <i>E-SPEN Journal</i> , 2014 , 9, e204-e209	4
30	Phytochemical investigation of the leaves of <i>Leptoderris fasciculata</i> . <i>Phytochemistry Letters</i> , 2013 , 6, 253-256	1.9 4
29	Targeted distribution of photo-assimilate in <i>Striga hermonthica</i> (Del.) Benth parasitic on <i>Sorghum bicolor</i> L.. <i>Phytochemistry Letters</i> , 2008 , 1, 76-80	1.9 4
28	Optimised NMR detection of 13C α H double labelling in small molecules. <i>Comptes Rendus Chimie</i> , 2006 , 9, 514-519	2.7 4
27	Synthesis of 15N-labelled normicotine and 15N-labelled nicotine. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2001 , 44, 881-888	1.9 4
26	Expanded uncertainty associated with determination of isotope enrichment factors: Comparison of two point calculation and Rayleigh-plot. <i>Talanta</i> , 2018 , 176, 367-373	6.2 4
25	Simulating Stable Isotope Ratios in Plumes of Groundwater Pollutants with BIOSCREEN-AT-ISO. <i>Ground Water</i> , 2017 , 55, 261-267	2.4 3
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