

Richard J Robins

List of Publications by Year in descending order

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papers

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94269

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167
times ranked

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#	ARTICLE	IF	CITATIONS
1	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.	4.6	748
2	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.	2.0	173
3	New Routes to Plant Secondary Products. <i>Nature Biotechnology</i> , 1987, 5, 800-804.	9.4	145
4	Efficient Enantiomeric Synthesis of Pyrrolidine and Piperidine Alkaloids from Tobacco. <i>Journal of Organic Chemistry</i> , 2001, 66, 6305-6312.	1.7	123
5	Variation in tropane alkaloid accumulation within the solanaceae and strategies for its exploitation. <i>Phytochemistry</i> , 1990, 29, 2545-2550.	1.4	108
6	Studies on the biosynthesis of tropane alkaloids in <i>Datura stramonium</i> L. transformed root cultures. <i>Planta</i> , 1991, 183, 185-195.	1.6	90
7	Accurate Quantitative ¹³ C NMR Spectroscopy: Repeatability over Time of Site-Specific ¹³ C Isotope Ratio Determination. <i>Analytical Chemistry</i> , 2007, 79, 8266-8269.	3.2	90
8	Authentication of the Origin of Vanillin Using Quantitative Natural Abundance ¹³ C NMR. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 7782-7787.	2.4	85
9	The stimulation of anthraquinone production by <i>Cinchona ledgeriana</i> cultures with polymeric adsorbents. <i>Applied Microbiology and Biotechnology</i> , 1986, 24, 35.	1.7	82
10	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, 336-341.	1.4	81
11	Determination of Substrate and Product Concentrations in Lactic Acid Bacterial Fermentations by Proton NMR Using the ERETIC Method. <i>Analytical Chemistry</i> , 2001, 73, 1862-1868.	3.2	79
12	Intramolecular ¹³ C pattern in hexoses from autotrophic and heterotrophic C ₃ plant tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18204-18209.	3.3	78
13	¹⁵ N and ¹³ C in hair from newborn infants and their mothers: a cohort study. <i>Pediatric Research</i> , 2012, 71, 598-604.	1.1	71
14	Alkaloid Production by Transformed Root Cultures of <i>Cinchona ledgeriana</i> . <i>Planta Medica</i> , 1989, 55, 354-357.	0.7	70
15	Multi-factorial <i>in vivo</i> stable isotope fractionation: causes, correlations, consequences and applications. <i>Isotopes in Environmental and Health Studies</i> , 2015, 51, 155-199.	0.5	69
16	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, 8978-8985.	3.2	68
17	Studies on the biosynthesis of tropane alkaloids in <i>Datura stramonium</i> L. transformed root cultures. <i>Planta</i> , 1991, 183, 196-201.	1.6	67
18	NMR Approach to the Quantification of Nonstatistical ¹³ C Distribution in Natural Products: Vanillin. <i>Analytical Chemistry</i> , 2004, 76, 3818-3825.	3.2	66

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19	Simultaneous determination of glutathione and cysteine concentrations and 2H enrichments in microvolumes of neonatal blood using gas chromatography–mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 1403-1412.	1.9	64
20	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.	0.7	64
21	Perturbation of alkaloid production by cadaverine in hairy root cultures of <i>Nicotiana rustica</i> . <i>Plant Science</i> , 1988, 54, 125-131.	1.7	59
22	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.	1.1	57
23	Unexpected Fractionation in Site-Specific 13C Isotopic Distribution Detected by Quantitative 13C NMR at Natural Abundance. <i>Journal of the American Chemical Society</i> , 2008, 130, 414-415.	6.6	52
24	A ¹³ C NMR spectrometric method for the determination of intramolecular $\delta^{13}\text{C}$ values in fructose from plant sucrose samples. <i>New Phytologist</i> , 2011, 191, 579-588.	3.5	51
25	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, 1104-1112.	2.8	50
26	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.	6.6	49
27	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.	1.6	46
28	Phytochemicals Isolated from Leaves of <i>Chromolaena odorata</i> : Impact on Viability and Clonogenicity of Cancer Cell Lines. <i>Phytotherapy Research</i> , 2013, 27, 835-840.	2.8	46
29	Biosynthesis of hyoscyamine involves an intramolecular rearrangement of littorine. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1994, , 615.	0.9	44
30	<i>Nauclea latifolia</i> : biological activity and alkaloid phytochemistry of a West African tree. <i>Natural Product Reports</i> , 2016, 33, 1034-1043.	5.2	44
31	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, 262-265.	2.8	43
32	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.	3.1	43
33	The Nicotinic Pharmacophore: Thermodynamics of the Hydrogen-Bonding Complexation of Nicotine, Nornicotine, and Models. <i>Journal of Organic Chemistry</i> , 2003, 68, 8208-8221.	1.7	42
34	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, 10783-10792.	1.6	41
35	Natural Deuterium Distribution in Long-Chain Fatty Acids Is Nonstatistical: A Site-Specific Study by Quantitative 2H NMR Spectroscopy. <i>ChemBioChem</i> , 2001, 2, 425-431.	1.3	40
36	Cord Blood Glutathione Depletion in Preterm Infants: Correlation with Maternal Cysteine Depletion. <i>PLoS ONE</i> , 2011, 6, e27626.	1.1	40

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37	Tryptophan decarboxylase strictosidine synthase and alkaloid production by <i>Cinchona ledgeriana</i> suspension cultures. <i>Phytochemistry</i> , 1987, 26, 721-725.	1.4	39
38	Characterization of nitrogen relationships between <i>Sorghum bicolor</i> and the root-hemiparasitic angiosperm <i>Striga hermonthica</i> (Del.) Benth. using K ¹⁵ NO ₃ as isotopic tracer. <i>Journal of Experimental Botany</i> , 2003, 54, 789-799.	2.4	37
39	Correlation between the synthetic origin of methamphetamine samples and their ¹⁵ N and ¹³ C stable isotope ratios. <i>Analytica Chimica Acta</i> , 2007, 593, 20-29.	2.6	36
40	Tropic acid ester biosynthesis in <i>Datura stramonium</i> and related species. <i>Chemical Society Reviews</i> , 1998, 27, 207.	18.7	35
41	Biochemical and physiological determinants of intramolecular isotope patterns in sucrose from C ₃ , C ₄ and CAM plants accessed by isotopic ¹³ C NMR spectrometry: a viewpoint. <i>Natural Product Reports</i> , 2012, 29, 476.	5.2	34
42	Occurrence of the Synthetic Analgesic Tramadol in an African Medicinal Plant. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11780-11784.	7.2	34
43	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.	1.4	33
44	A short and efficient synthesis of unnatural (R)-nicotine. <i>Tetrahedron Letters</i> , 2000, 41, 9245-9249.	0.7	33
45	Determination of Deuterium Isotope Ratios by Quantitative ² H NMR Spectroscopy: The ERETIC Method As a Generic Reference Signal. <i>Analytical Chemistry</i> , 2002, 74, 5902-5906.	3.2	33
46	Nonstatistical ¹³ C 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, 4118-4128.	1.6	32
47	Specificities of the enzymes of N-alkyltropine biosynthesis in <i>Brugmansia</i> and <i>Datura</i> . <i>Phytochemistry</i> , 1999, 52, 871-878.	1.4	31
48	Assignment of Absolute Configuration of Natural Abundance Deuterium Signals Associated with (R)- and (S)-Enantioisotopomers 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, 11180-11187.	6.6	31
49	The biosynthesis of hyoscyamine: the process by which littorine rearranges to hyoscyamine. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1995, , 481.	0.9	30
50	Conditions to obtain precise and true measurements of the intramolecular ¹³ C distribution in organic molecules by isotopic ¹³ C nuclear magnetic resonance spectrometry. <i>Analytica Chimica Acta</i> , 2014, 846, 1-7.	2.6	30
51	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.	1.1	30
52	Fractionation in position-specific isotope composition during vaporization of environmental pollutants measured with isotope ratio monitoring by ¹³ C nuclear magnetic resonance spectrometry. <i>Environmental Pollution</i> , 2015, 205, 299-306.	3.7	29
53	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, 212-218.	1.3	28
54	Natural Deuterium Distribution in Fatty Acids Isolated from Peanut Seed Oil: A Site-Specific Study by Quantitative ² H NMR Spectroscopy. <i>ChemBioChem</i> , 2002, 3, 752.	1.3	28

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55	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, 6600-6606.	3.2	28
56	Exploration of Biological Markers of Feed Efficiency in Young Bulls. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 9817-9827.	2.4	28
57	Scanning the isotopic structure of molecules by tandem mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2018, 434, 276-286.	0.7	28
58	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, 111-118.	0.3	27
59	Quantitative isotopic ¹³ C 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, 182-188.	1.1	27
60	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, 161-164.	2.8	26
61	Quinoline Alkaloid Production by Transformed Cultures of <i>Cinchona ledgeriana</i> . <i>Planta Medica</i> , 1987, 53, 367-372.	0.7	26
62	Chiral specificity of the degradation of nicotine by <i>Nicotiana plumbaginifolia</i> cell suspension cultures. <i>Plant Science</i> , 2001, 161, 1011-1018.	1.7	26
63	Evidence for the involvement of tetrahydrofolate in the demethylation of nicotine by <i>Nicotiana plumbaginifolia</i> cell-suspension cultures. <i>Planta</i> , 2002, 214, 911-919.	1.6	26
64	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, 1365-1372.	1.2	26
65	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.	1.4	24
66	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, 7043-7048.	1.8	24
67	Internal Referencing for ¹³ C Position-Specific Isotope Analysis Measured by NMR Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 7550-7554.	3.2	24
68	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, 8296-8301.	3.3	24
69	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, 2076-2082.	2.4	22
70	Nicotine demethylation in <i>Nicotiana</i> cell suspension cultures: N ² -formylornicotine is not involved. <i>Phytochemistry</i> , 2005, 66, 2432-2440.	1.4	22
71	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, 12782-12788.	4.6	22
72	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.	0.9	21

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73	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, 383-389.	2.9	21
74	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.	1.8	20
75	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.	1.4	20
76	Metabolic flux in glucose/citrate co-fermentation by lactic acid bacteria as measured by isotopic ratio analysis. <i>FEMS Microbiology Letters</i> , 2000, 182, 207-211.	0.7	20
77	An enzyme-linked immunosorbent assay for quassin and closely related metabolites. <i>Analytical Biochemistry</i> , 1984, 136, 145-156.	1.1	19
78	Metabolism of N-alkyldiamines and N-alkylpiperidines by transformed root cultures of <i>Nicotiana glauca</i> and <i>Brugmansia</i> . <i>Phytochemistry</i> , 1999, 52, 855-869.	1.4	19
79	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.	2.0	18
80	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.	1.6	18
81	Quantitative ² H NMR analysis of deuterium distribution in petroselinic acid isolated from parsley seed. <i>Phytochemistry</i> , 2003, 64, 227-233.	1.4	18
82	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.	1.4	18
83	Strategies for the Genetic Manipulation of Alkaloid-Producing Pathways in Plants. <i>Planta Medica</i> , 1991, 57, S27-S35.	0.7	17
84	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, 1053-1060.	2.4	17
85	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, 24923-24928.	1.6	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, 3250-3256.	6.6	17
87	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, 1094-1103.	1.4	17
88	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, 2985-2998.	1.9	17
89	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.	4.2	17
90	Esterification reactions in the biosynthesis of tropane alkaloids in transformed root cultures. <i>Plant Cell, Tissue and Organ Culture</i> , 1994, 38, 241-247.	1.2	16

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91	The application of root cultures to problems of biological chemistry. <i>Natural Product Reports</i> , 1998, 15, 549.	5.2	16
92	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, 445-452.	4.2	16
93	Simultaneous determination of natural 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, 1345-1353.	0.7	16
94	Position-Specific ¹³ 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.	1.2	16
95	Quantitative Deuterium Isotopic Profiling at Natural Abundance Indicates Mechanistic Differences for ¹² Epoxygenase and ¹² Desaturase in <i>Vernonia galamensis</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 17645-17651.	1.6	15
96	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, 16620-16629.	1.6	15
97	Determination of ¹³ C isotopic enrichment of glutathione and glycine by gas chromatography/combustion/isotope ratio mass spectrometry after formation of the <i>N</i> - or <i>N,S</i> -ethoxycarbonyl methyl ester derivatives. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3245-3252.	0.7	14
98	Progress in understanding the N-demethylation of alkaloids by exploiting isotopic techniques. <i>Phytochemistry Reviews</i> , 2007, 6, 51-63.	3.1	14
99	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.	1.4	14
100	Cytochrome P450-Catalyzed Degradation of Nicotine: Fundamental Parameters Determining Hydroxylation by Cytochrome P450 2A6 at the ² -Carbon or the <i>N</i> -Methyl Carbon. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7827-7840.	1.2	14
101	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, 4058-4067.	2.4	14
102	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, 9704-9712.	1.6	13
103	Lack of correlation between glutathione turnover and amino acid absorption by the yeast <i>Saccharomyces cerevisiae</i> . <i>Phytochemistry</i> , 1981, 20, 1497-1499.	1.4	12
104	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.	1.2	12
105	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, 175-183.	1.4	12
106	Biomimetic synthesis of Tramadol. <i>Chemical Communications</i> , 2015, 51, 14451-14453.	2.2	12
107	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.	1.4	11
108	The role of glutathione in amino acid absorption by yeast. <i>FEBS Letters</i> , 1980, 111, 432-432.	1.3	10

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109	Insights into the role of methionine synthase in the universal ^{13}C depletion in O - and N -methyl groups of natural products. Archives of Biochemistry and Biophysics, 2017, 635, 60-65.	1.4	10
110	The use of agarose bead culture for the regeneration of single cell-derived colonies from protoplasts isolated from suspension cultures of Humulus lupulus. Plant Cell, Tissue and Organ Culture, 1987, 8, 17-25.	1.2	9
111	Determination of the natural abundance ^{15}N of nicotine and related alkaloids by gas chromatography/isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2005, 19, 2039-2044.	0.7	9
112	Impact of the deuterium isotope effect on the accuracy of ^{13}C NMR measurements of site-specific isotope ratios at natural abundance in glucose. Analytical and Bioanalytical Chemistry, 2010, 398, 1979-1984.	1.9	9
113	Chapter 2 The Biosynthesis of Tropane Alkaloids. Alkaloids: Chemistry and Pharmacology, 1993, 44, 115-187.	0.2	8
114	Stereoselectivity of the demethylation of nicotine piperidine homologues by Nicotiana glauca cell suspension cultures. Phytochemistry, 2005, 66, 1890-1897.	1.4	8
115	Determination of the natural abundance ^{15}N of nortropine alkaloids by gas chromatography/isotope ratio mass spectrometry of their ethylcarbamate esters. Analytical and Bioanalytical Chemistry, 2010, 396, 1405-1414.	1.9	8
116	Predicting equilibrium vapour pressure isotope effects by using artificial neural networks or multi-linear regression – A quantitative structure property relationship approach. Chemosphere, 2015, 134, 521-527.	4.2	8
117	Non-statistical isotope fractionation as a novel “retro-biosynthetic” approach to understanding alkaloid metabolic pathways. Phytochemistry Letters, 2017, 20, 499-506.	0.6	8
118	Analytical contribution of deuterium ^{2}D NMR in oriented media to $^{2}\text{H}/^{1}\text{H}$ isotopic characterization: the case of vanillin. Flavour and Fragrance Journal, 2018, 33, 217-229.	1.2	8
119	Probing stereoselectivity and pro-chirality of hydride transfer during short-chain alcohol dehydrogenase activity: A combined quantitative ^2H NMR and computational approach. Archives of Biochemistry and Biophysics, 2009, 482, 42-51.	1.4	7
120	A spectrophotometric assay for strictosidine synthase. Analytical Biochemistry, 1987, 163, 482-488.	1.1	6
121	Optimisation of 1D and 2D in vivo ^1H NMR to study tropane alkaloid metabolism in Pseudomonas. Comptes Rendus Chimie, 2008, 11, 457-464.	0.2	6
122	Determination of nitrogen ^{15}N isotope fractionation in tropine: evaluation of extraction protocols for isotope ratio measurement by isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2009, 23, 4031-4037.	0.7	6
123	Cytochrome P450 Monooxygenase-Catalyzed Ring Opening of the Bicyclic Amine, Nortropine: An Experimental and DFT Computational Study. ChemCatChem, 2012, 4, 530-539.	1.8	6
124	A Ring-D-Seco-Tetranortriterpenoid from Seeds of Carapa procera Active against Breast Cancer Cell Lines. Planta Medica, 2016, 82, 967-972.	0.7	6
125	Expanded uncertainty associated with determination of isotope enrichment factors: Comparison of two point calculation and Rayleigh-plot. Talanta, 2018, 176, 367-373.	2.9	6
126	The fiftieth anniversary meeting of the Phytochemical Society of Europe: Churchill College, Cambridge, 11-14 April 2007 Highlights in the Evolution of Phytochemistry. Phytochemistry, 2007, 68, 2699-2704.	1.4	5

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127	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.	0.6	5
128	A Short and Efficient Synthesis of Bridgehead Mono- and Dideuterated Tropinones. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 152-156.	1.2	5
129	Phytochemical investigation of the leaves of <i>Leptoderris fasciculata</i> . <i>Phytochemistry Letters</i> , 2013, 6, 253-256.	0.6	5
130	Progress in the Genetic Engineering of the Pyridine and Tropane Alkaloid Biosynthetic Pathways of Solanaceous Plants. , 1994, , 1-33.		5
131	Esterification reactions in the biosynthesis of tropane alkaloids in transformed root cultures. , 1994, , 241-247.		5
132	Synthesis of ¹⁵ N-labelled nor nicotine and ¹⁵ N-labelled nicotine. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2001, 44, 881-888.	0.5	4
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