

# GÃ©rald S Remaud

## List of Publications by Year in descending order

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76  
papers

2,027  
citations

186265

28  
h-index

265206

42  
g-index

78  
all docs

78  
docs citations

78  
times ranked

1102  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of Sophisticated Adulterations of Natural Vanilla Flavors and Extracts: Application of the SNIF-NMR Method to Vanillin and p-Hydroxybenzaldehyde. <i>Journal of Agricultural and Food Chemistry</i> , 1997, 45, 859-866.	5.2	120
2	Accurate Quantitative $^{13}\text{C}$ NMR Spectroscopy: Repeatability over Time of Site-Specific $^{13}\text{C}$ Isotope Ratio Determination. <i>Analytical Chemistry</i> , 2007, 79, 8266-8269.	6.5	90
3	Precise and accurate quantitative $^{13}\text{C}$ NMR with reduced experimental time. <i>Talanta</i> , 2007, 71, 1016-1021.	5.5	86
4	Isotopic $^{13}\text{C}$ NMR spectrometry to assess counterfeiting of active pharmaceutical ingredients: Site-specific $^{13}\text{C}$ content of aspirin and paracetamol. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009, 50, 336-341.	2.8	81
5	Intramolecular $^{13}\text{C}$ pattern in hexoses from autotrophic and heterotrophic $\text{C}_3$ plant tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18204-18209.	7.1	78
6	Authentication of Bitter Almond Oil and Cinnamon Oil: Application of the SNIF-NMR Method to Benzaldehyde. <i>Journal of Agricultural and Food Chemistry</i> , 1997, 45, 4042-4048.	5.2	69
7	Accurate Quantitative Isotopic $^{13}\text{C}$ NMR Spectroscopy for the Determination of the Intramolecular Distribution of $^{13}\text{C}$ in Glucose at Natural Abundance. <i>Analytical Chemistry</i> , 2009, 81, 8978-8985.	6.5	68
8	Reference and normalization methods: Essential tools for the intercomparison of NMR spectra. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 93, 3-16.	2.8	58
9	Improved Characterization of the Botanical Origin of Sugar by Carbon-13 SNIF-NMR Applied to Ethanol. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 11580-11585.	5.2	55
10	Unexpected Fractionation in Site-Specific $^{13}\text{C}$ Isotopic Distribution Detected by Quantitative $^{13}\text{C}$ NMR at Natural Abundance. <i>Journal of the American Chemical Society</i> , 2008, 130, 414-415.	13.7	52
11	Performance Evaluation of Quantitative Adiabatic $^{13}\text{C}$ NMR Pulse Sequences for Site-Specific Isotopic Measurements. <i>Analytical Chemistry</i> , 2010, 82, 5582-5590.	6.5	51
12	Isotopic finger-printing of active pharmaceutical ingredients by $^{13}\text{C}$ NMR and polarization transfer techniques as a tool to fight against counterfeiting. <i>Talanta</i> , 2011, 85, 1909-1914.	5.5	51
13	A $^{13}\text{C}$ NMR spectrometric method for the determination of intramolecular $^{13}\text{C}$ values in fructose from plant sucrose samples. <i>New Phytologist</i> , 2011, 191, 579-588.	7.3	51
14	The intramolecular $^{13}\text{C}$ distribution in ethanol reveals the influence of the $\text{CO}_2$ fixation pathway and environmental conditions on the site-specific $^{13}\text{C}$ variation in glucose. <i>Plant, Cell and Environment</i> , 2011, 34, 1104-1112.	5.7	50
15	The new face of isotopic NMR at natural abundance. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 77-90.	1.9	50
16	Hydrogen Isotopic Profile in the Characterization of Sugars. Influence of the Metabolic Pathway. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 1574-1580.	5.2	48
17	Authentication of Lemon Juices and Concentrates by a Combined Multi-isotope Approach Using SNIF-NMR and IRMS. <i>Journal of Agricultural and Food Chemistry</i> , 1998, 46, 2200-2205.	5.2	45
18	Multi-element, multi-compound isotope profiling as a means to distinguish the geographical and varietal origin of fermented cocoa ( <i>Theobroma cacao</i> L.) beans. <i>Food Chemistry</i> , 2015, 188, 576-582.	8.2	42

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19	The effect of protecting groups of the nucleobase and the sugar moieties on the acidic hydrolysis of the glycosidic bond of 2deoxyadenosine: a kinet. <i>Tetrahedron</i> , 1987, 43, 4453-4461.	1.9	39
20	Site-specific <sup>13</sup> C content by quantitative isotopic <sup>13</sup> C Nuclear Magnetic Resonance spectrometry: A pilot inter-laboratory study. <i>Analytica Chimica Acta</i> , 2013, 788, 108-113.	5.4	39
21	NMR spectrometry isotopic fingerprinting: A tool for the manufacturer for tracking Active Pharmaceutical Ingredients from starting materials to final medicines. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 48, 464-473.	4.0	39
22	Biochemical and physiological determinants of intramolecular isotope patterns in sucrose from C3, C4 and CAM plants accessed by isotopic <sup>13</sup> C NMR spectrometry: a viewpoint. <i>Natural Product Reports</i> , 2012, 29, 476.	10.3	34
23	Comparison of IRMS and NMR spectrometry for the determination of intramolecular <sup>13</sup> C isotope composition: Application to ethanol. <i>Talanta</i> , 2012, 99, 1035-1039.	5.5	33
24	NMR-based isotopic and isotopomic analysis. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2020, 120-121, 1-24.	7.5	33
25	Nonstatistical <sup>13</sup> 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.	3.4	32
26	Conditions to obtain precise and true measurements of the intramolecular <sup>13</sup> C distribution in organic molecules by isotopic <sup>13</sup> C nuclear magnetic resonance spectrometry. <i>Analytica Chimica Acta</i> , 2014, 846, 1-7.	5.4	30
27	Fractionation in position-specific isotope composition during vaporization of environmental pollutants measured with isotope ratio monitoring by <sup>13</sup> C nuclear magnetic resonance spectrometry. <i>Environmental Pollution</i> , 2015, 205, 299-306.	7.5	29
28	Olive oil characterization and classification by <sup>13</sup> C NMR with a polarization transfer technique: A comparison with gas chromatography and <sup>1</sup> H NMR. <i>Food Chemistry</i> , 2018, 245, 717-723.	8.2	29
29	Position-Specific Isotope Analysis of Xanthines: A <sup>13</sup> C Nuclear Magnetic Resonance Method to Determine the <sup>13</sup> C Intramolecular Composition at Natural Abundance. <i>Analytical Chemistry</i> , 2015, 87, 6600-6606.	6.5	28
30	Quantitative isotopic <sup>13</sup> 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.	2.4	27
31	Combination of <sup>13</sup> C and <sup>2</sup> H <sup>1</sup> H SNIF-NMR isotopic fingerprints of vanillin to control its precursors. <i>Flavour and Fragrance Journal</i> , 2019, 34, 133-144.	2.6	26
32	A review of flavors authentication by position-specific isotope analysis by nuclear magnetic resonance spectrometry: the example of vanillin. <i>Flavour and Fragrance Journal</i> , 2017, 32, 77-84.	2.6	25
33	Evidence of <sup>13</sup> C non-covalent isotope effects obtained by quantitative <sup>13</sup> C nuclear magnetic resonance spectrometry at natural abundance during normal phase liquid chromatography. <i>Journal of Chromatography A</i> , 2009, 1216, 7043-7048.	3.7	24
34	Internal Referencing for <sup>13</sup> C Position-Specific Isotope Analysis Measured by NMR Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 7550-7554.	6.5	24
35	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.	7.1	24
36	Quantification of the <sup>1</sup> H- <sup>13</sup> C Decoupling Effects on the Accuracy of <sup>13</sup> C NMR Measurements. <i>Instrumentation Science and Technology</i> , 2005, 33, 391-399.	1.8	22

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37	Insights into Mechanistic Models for Evaporation of Organic Liquids in the Environment Obtained by Position-Specific Carbon Isotope Analysis. <i>Environmental Science &amp; Technology</i> , 2015, 49, 12782-12788.	10.0	22
38	Enhanced forensic discrimination of pollutants by position-specific isotope analysis using isotope ratio monitoring by <sup>13</sup> C nuclear magnetic resonance spectrometry. <i>Talanta</i> , 2016, 147, 383-389.	5.5	21
39	Traceability in quantitative NMR using an electronic signal as working standard. <i>Accreditation and Quality Assurance</i> , 2005, 10, 415-420.	0.8	18
40	<sup>13</sup> C isotopomics of triacylglycerols using NMR with polarization transfer techniques. <i>Analytical Methods</i> , 2015, 7, 4889-4891.	2.7	18
41	Analytical model for site-specific isotope fractionation in <sup>13</sup> C during sorption: Determination by isotopic <sup>13</sup> C NMR spectrometry with vanillin as model compound. <i>Chemosphere</i> , 2012, 87, 445-452.	8.2	16
42	Position-Specific <sup>13</sup> 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.	2.6	16
43	Strategy for specific isotope ratio determination by quantitative NMR on symmetrical molecules: application to glycerol. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 1622-1624.	1.8	15
44	Non-statistical <sup>13</sup> 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.	3.4	15
45	Suppression of radiation damping for high precision quantitative NMR. <i>Journal of Magnetic Resonance</i> , 2015, 259, 121-125.	2.1	14
46	Chemical and isotopic composition of secondary organic aerosol generated by $\alpha$ -pinene ozonolysis. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6373-6391.	4.9	14
47	Full Spectrum Isotopic <sup>13</sup> C NMR Using Polarization Transfer for Position-Specific Isotope Analysis. <i>Analytical Chemistry</i> , 2018, 90, 8692-8699.	6.5	14
48	A precise and rapid isotopomic analysis of small quantities of cholesterol at natural abundance by optimized <sup>1</sup> H- <sup>13</sup> C 2D NMR. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 1521-1532.	3.7	13
49	Procedure for the isolation of vanillin from vanilla extracts prior to isotopic authentication by quantitative <sup>13</sup> C NMR. <i>Flavour and Fragrance Journal</i> , 2010, 25, 463-467.	2.6	12
50	Comparative study of <sup>13</sup> C composition in ethanol and bulk dry wine using isotope ratio monitoring by mass spectrometry and by nuclear magnetic resonance as an indicator of vine water status. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 9053-9060.	3.7	12
51	Insights into the role of methionine synthase in the universal <sup>13</sup> C depletion in O- and N-methyl groups of natural products. <i>Archives of Biochemistry and Biophysics</i> , 2017, 635, 60-65.	3.0	10
52	Impact of the deuterium isotope effect on the accuracy of <sup>13</sup> C NMR measurements of site-specific isotope ratios at natural abundance in glucose. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1979-1984.	3.7	9
53	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, 521-527.	8.2	8
54	Non-statistical isotope fractionation as a novel ‘retro-biosynthetic’ approach to understanding alkaloid metabolic pathways. <i>Phytochemistry Letters</i> , 2017, 20, 499-506.	1.2	8

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55	Analytical contribution of deuterium $2D$ NMR in oriented media to $^{2}H/^{1}H$ isotopic characterization: the case of vanillin. <i>Flavour and Fragrance Journal</i> , 2018, 33, 217-229.	2.6	8
56	Limited genotypic and geographic variability of 16-O-methylated diterpene content in <i>Coffea arabica</i> green beans. <i>Food Chemistry</i> , 2020, 329, 127129.	8.2	8
57	Exploring the enantiomeric $^{13}C$ position-specific isotope fractionation: challenges and anisotropic NMR-based analytical strategy. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6379-6392.	3.7	8
58	Position-specific $^{15}N$ isotope analysis in organic molecules: A high-precision $^{15}N$ NMR method to determine the intramolecular $^{15}N$ isotope composition and fractionation at natural abundance. <i>Magnetic Resonance in Chemistry</i> , 2019, 57, 1136-1142.	1.9	7
59	Expanded uncertainty associated with determination of isotope enrichment factors: Comparison of two point calculation and Rayleigh-plot. <i>Talanta</i> , 2018, 176, 367-373.	5.5	6
60	Forensic application of position-specific isotopic analysis of trinitrotoluene (TNT) by NMR to determine $^{13}C$ and $^{15}N$ intramolecular isotopic profiles. <i>Talanta</i> , 2020, 213, 120819.	5.5	6
61	Intramolecular non-covalent isotope effects at natural abundance associated with the migration of paracetamol in solid matrices during liquid chromatography. <i>Journal of Chromatography A</i> , 2021, 1639, 461932.	3.7	6
62	Vanillin isotopic intramolecular $^{13}C$ profile through polarization transfer NMR pulse sequence and statistical modelling. <i>Food Control</i> , 2021, 130, 108345.	5.5	6
63	Position-Specific Isotope Analysis by Isotopic NMR Spectrometry: New Insights on Environmental Pollution Studies. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 92-95.	0.6	4
64	Isotope Ratio Monitoring $^{13}C$ Nuclear Magnetic Resonance Spectrometry for the Analysis of Position-Specific Isotope Ratios. <i>Methods in Enzymology</i> , 2017, 596, 369-401.	1.0	4
65	Simulating Stable Isotope Ratios in Plumes of Groundwater Pollutants with $^{13}C$ BIOSCREEN-ISO. <i>Ground Water</i> , 2017, 55, 261-267.	1.3	4
66	Isotopomics by isotope ratio monitoring by $^{13}C$ nuclear magnetic resonance spectrometry on cutting agents in heroin: A new approach for illicit drugs trafficking route elucidation. <i>Drug Testing and Analysis</i> , 2020, 12, 449-457.	2.6	4
67	Authentication of Agave Products through Isotopic Intramolecular $^{13}C$ Content of Ethanol: Optimization and Validation of $^{13}C$ Quantitative NMR Methodology. <i>ACS Food Science &amp; Technology</i> , 2021, 1, 1316-1322.	2.7	4
68	Intramolecular isotope effects during permanganate oxidation and acid hydrolysis of methyl tert-butyl ether. <i>Chemosphere</i> , 2020, 248, 125975.	8.2	4
69	Difficulties in Differentiating Natural from Synthetic Alkaloids by Isotope Ratio Monitoring using $^{13}C$ Nuclear Magnetic Resonance Spectrometry. <i>Planta Medica</i> , 2018, 84, 935-940.	1.3	3
70	Isotope Ratio Monitoring by NMR. Part 1: Recent Advances. , 2016, , 1-26.		2
71	Isotope Ratio Monitoring by NMR Part 2: New Applications in the Field of Defining Biosynthesis. , 2016, , 1-26.		2
72	Position-specific Carbon Isotope Fractionation gives Insights into Mechanistic Models for Evaporation of Organic Liquids in the Environment. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 96-99.	0.6	1

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73	Isotope Ratio Monitoring by NMR: Part 1 â€œ Recent Advances. , 2018, , 1353-1378.		1
74	Carbon-13 composition of bulk dry wines by irm-EA/MS and irm- <sup>13</sup> C NMR: An indicator of vine water status. BIO Web of Conferences, 2017, 9, 02021.	0.2	0
75	Isotope Ratio Monitoring by NMR: Part 3 â€œ New Applications for Traceability of Active Pharmaceutical Ingredients. , 2018, , 2233-2251.		0
76	Isotope Ratio Monitoring by NMR: Part 2 â€œ New Applications in the Field of Defining Biosynthesis. , 2018, , 1379-1404.		0