GÃ©rald S Remaud

List of Publications by Year
in descending order

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	A precise and rapid isotopomic analysis of small quantities of cholesterol at natural abundance by optimized 1H-13C 2D NMR. Analytical and Bioanalytical Chemistry, 2021, 413, 1521-1532.	3.7	13
2	Intramolecular non-covalent isotope effects at natural abundance associated with the migration of paracetamol in solid matrices during liquid chromatography. Journal of Chromatography A, 2021, 1639, 461932.	3.7	6
3	Authentication of Agave Products through Isotopic Intramolecular ¹³C Content of Ethanol: Optimization and Validation of ¹³C Quantitative NMR Methodology. ACS Food Science & Technology, 2021, 1, 1316-1322.	2.7	4
4	Exploring the enantiomeric 13C position-specific isotope fractionation: challenges and anisotropic NMR-based analytical strategy. Analytical and Bioanalytical Chemistry, 2021, 413, 6379-6392.	3.7	8
5	Vanillin isotopic intramolecular 13C profile through polarization transfer NMR pulse sequence and statistical modelling. Food Control, 2021, 130, 108345.	5.5	6
6	Isotopomics by isotope ratio monitoring by ¹³C nuclear magnetic resonance spectrometry on cutting agents in heroin: A new approach for illicit drugs trafficking route elucidation. Drug Testing and Analysis, 2020, 12, 449-457.	2.6	4
7	NMR-based isotopic and isotopomic analysis. Progress in Nuclear Magnetic Resonance Spectroscopy, 2020, 120-121, 1-24.	7.5	33
8	Limited genotypic and geographic variability of 16-O-methylated diterpene content in Coffea arabica green beans. Food Chemistry, 2020, 329, 127129.	8.2	8
9	Forensic application of position-specific isotopic analysis of trinitrotoluene (TNT) by NMR to determine 13C and 15N intramolecular isotopic profiles. Talanta, 2020, 213, 120819.	5.5	6
10	Intramolecular isotope effects during permanganate oxidation and acid hydrolysis of methyl tert-butyl ether. Chemosphere, 2020, 248, 125975.	8.2	4
11	Combination of ¹³C and ²H <scp>SNIF</scp>â€<scp>NMR</scp> isotopic fingerprints of vanillin to control its precursors. Flavour and Fragrance Journal, 2019, 34, 133-144.	2.6	26
12	Positionâ€specific ¹⁵N isotope analysis in organic molecules: A highâ€precision ¹⁵N NMR method to determine the intramolecular ¹⁵N isotope composition and fractionation at natural abundance. Magnetic Resonance in Chemistry, 2019, 57, 1136-1142.	1.9	7
13	Analytical contribution of deuterium 2Dâ€<scp>NMR</scp> in oriented media to ²H/¹H isotopic characterization: the case of vanillin. Flavour and Fragrance Journal, 2018, 33, 217-229.	2.6	8
14	Difficulties in Differentiating Natural from Synthetic Alkaloids by Isotope Ratio Monitoring using 13C Nuclear Magnetic Resonance Spectrometry. Planta Medica, 2018, 84, 935-940.	1.3	3
15	Olive oil characterization and classification by 13C NMR with a polarization transfer technique: A comparison with gas chromatography and 1H NMR. Food Chemistry, 2018, 245, 717-723.	8.2	29
16	Expanded uncertainty associated with determination of isotope enrichment factors: Comparison of two point calculation and Rayleigh-plot. Talanta, 2018, 176, 367-373.	5.5	6
17	Full Spectrum Isotopic ¹³C NMR Using Polarization Transfer for Position-Specific Isotope Analysis. Analytical Chemistry, 2018, 90, 8692-8699.	6.5	14
18	Isotope Ratio Monitoring by NMR: Part 3 â€“ New Applications for Traceability of Active Pharmaceutical Ingredients. , 2018, , 2233-2251.		0

#	Article	IF	Citations
19	Isotope Ratio Monitoring by NMR: Part 1 â€“ Recent Advances. , 2018, , 1353-1378.		1
20	Isotope Ratio Monitoring by NMR: Part 2 â€“ New Applications in the Field of Defining Biosynthesis. , 2018, , 1379-1404.		0
21	Non-statistical isotope fractionation as a novel â€œretro-biosyntheticâ€•approach to understanding alkaloid metabolic pathways. Phytochemistry Letters, 2017, 20, 499-506.	1.2	8
22	Position-Specific ¹³C Fractionation during Liquidâ€“Vapor Transition Correlated to the Strength of Intermolecular Interaction in the Liquid Phase. Journal of Physical Chemistry B, 2017, 121, 5810-5817.	2.6	16
23	A review of flavors authentication by positionâ€specific isotope analysis by nuclear magnetic resonance spectrometry: the example of vanillin. Flavour and Fragrance Journal, 2017, 32, 77-84.	2.6	25
24	Isotope Ratio Monitoring 13 C Nuclear Magnetic Resonance Spectrometry for the Analysis of Position-Specific Isotope Ratios. Methods in Enzymology, 2017, 596, 369-401.	1.0	4
25	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.	3.0	10
26	Simulating Stable Isotope Ratios in Plumes of Groundwater Pollutants with <scp>BIOSCREENâ€ATâ€ISO</scp>. Ground Water, 2017, 55, 261-267.	1.3	4
27	The new face of isotopic NMR at natural abundance. Magnetic Resonance in Chemistry, 2017, 55, 77-90.	1.9	50
28	Chemical and isotopic composition of secondary organic aerosol generated by <i>Î±</i>-pinene ozonolysis. Atmospheric Chemistry and Physics, 2017, 17, 6373-6391.	4.9	14
29	Carbon-13 composition of bulk dry wines by irm-EA/MS and irm-¹³C NMR: An indicator of vine water status. BIO Web of Conferences, 2017, 9, 02021.	0.2	0
30	Non-statistical 13C Fractionation Distinguishes Co-incident and Divergent Steps in the Biosynthesis of the Alkaloids Nicotine and Tropine. Journal of Biological Chemistry, 2016, 291, 16620-16629.	3.4	15
31	Enhanced forensic discrimination of pollutants by position-specific isotope analysis using isotope ratio monitoring by 13C nuclear magnetic resonance spectrometry. Talanta, 2016, 147, 383-389.	5.5	21
32	Isotope Ratio Monitoring by NMR. Part 1: Recent Advances. , 2016, , 1-26.		2
33	Isotope Ratio Monitoring by NMR Part 2: New Applications in the Field of Defining Biosynthesis. , 2016, , 1-26.		2
34	Position-specific Carbon Isotope Fractionation gives Insights into Mechanistic Models for Evaporation of Organic Liquids in the Environment. Procedia Earth and Planetary Science, 2015, 13, 96-99.	0.6	1
35	Position-Specific Isotope Analysis by Isotopic NMR Spectrometry: New Insights on Environmental Pollution Studies. Procedia Earth and Planetary Science, 2015, 13, 92-95.	0.6	4
36	Nonstatistical 13C Distribution during Carbon Transfer from Glucose to Ethanol during Fermentation Is Determined by the Catabolic Pathway Exploited. Journal of Biological Chemistry, 2015, 290, 4118-4128.	3.4	32

#	Article	IF	Citations
37	¹³C isotopomics of triacylglycerols using NMR with polarization transfer techniques. Analytical Methods, 2015, 7, 4889-4891.	2.7	18
38	Multi-element, multi-compound isotope profiling as a means to distinguish the geographical and varietal origin of fermented cocoa (Theobroma cacao L.) beans. Food Chemistry, 2015, 188, 576-582.	8.2	42
39	Predicting equilibrium vapour pressure isotope effects by using artificial neural networks or multi-linear regression â€“ A quantitative structure property relationship approach. Chemosphere, 2015, 134, 521-527.	8.2	8
40	Fractionation in position-specific isotope composition during vaporization of environmental pollutants measured with isotope ratio monitoring by 13C nuclear magnetic resonance spectrometry. Environmental Pollution, 2015, 205, 299-306.	7.5	29
41	Internal Referencing for ¹³C Position-Specific Isotope Analysis Measured by NMR Spectrometry. Analytical Chemistry, 2015, 87, 7550-7554.	6.5	24
42	Position-Specific Isotope Analysis of Xanthines: A ¹³C Nuclear Magnetic Resonance Method to Determine the ¹³C Intramolecular Composition at Natural Abundance. Analytical Chemistry, 2015, 87, 6600-6606.	6.5	28
43	A retro-biosynthetic approach to the prediction of biosynthetic pathways from position-specific isotope analysis as shown for tramadol. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8296-8301.	7.1	24
44	Insights into Mechanistic Models for Evaporation of Organic Liquids in the Environment Obtained by Position-Specific Carbon Isotope Analysis. Environmental Science & Technology, 2015, 49, 12782-12788.	10.0	22
45	Suppression of radiation damping for high precision quantitative NMR. Journal of Magnetic Resonance, 2015, 259, 121-125.	2.1	14
46	Comparative study of 13C 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. Analytical and Bioanalytical Chemistry, 2015, 407, 9053-9060.	3.7	12
47	Reference and normalization methods: Essential tools for the intercomparison of NMR spectra. Journal of Pharmaceutical and Biomedical Analysis, 2014, 93, 3-16.	2.8	58
48	Conditions to obtain precise and true measurements of the intramolecular 13C distribution in organic molecules by isotopic 13C nuclear magnetic resonance spectrometry. Analytica Chimica Acta, 2014, 846, 1-7.	5.4	30
49	Site-specific 13C content by quantitative isotopic 13C Nuclear Magnetic Resonance spectrometry: A pilot inter-laboratory study. Analytica Chimica Acta, 2013, 788, 108-113.	5.4	39
50	NMR spectrometry isotopic fingerprinting: A tool for the manufacturer for tracking Active Pharmaceutical Ingredients from starting materials to final medicines. European Journal of Pharmaceutical Sciences, 2013, 48, 464-473.	4.0	39
51	Intramolecular¹³C pattern in hexoses from autotrophic and heterotrophic C₃plant tissues. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18204-18209.	7.1	78
52	Biochemical and physiological determinants of intramolecular isotope patterns in sucrose from C3, C4 and CAM plants accessed by isotopic 13C NMR spectrometry: a viewpoint. Natural Product Reports, 2012, 29, 476.	10.3	34
53	Comparison of IRMS and NMR spectrometry for the determination of intramolecular 13C isotope composition: Application to ethanol. Talanta, 2012, 99, 1035-1039.	5.5	33
54	Analytical model for site-specific isotope fractionation in 13C during sorption: Determination by isotopic 13C NMR spectrometry with vanillin as model compound. Chemosphere, 2012, 87, 445-452.	8.2	16

#	Article	IF	Citations
55	Isotopic finger-printing of active pharmaceutical ingredients by 13C NMR and polarization transfer techniques as a tool to fight against counterfeiting. Talanta, 2011, 85, 1909-1914.	5.5	51
56	The intramolecular ¹³Câ€distribution in ethanol reveals the influence of the CO₂â€fixation pathway and environmental conditions on the siteâ€specific ¹³C variation in glucose. Plant, Cell and Environment, 2011, 34, 1104-1112.	5.7	50
57	A ¹³C NMR spectrometric method for the determination of intramolecular Î´¹³C values in fructose from plant sucrose samples. New Phytologist, 2011, 191, 579-588.	7.3	51
58	Impact of the deuterium isotope effect on the accuracy of 13C NMR measurements of site-specific isotope ratios at natural abundance in glucose. Analytical and Bioanalytical Chemistry, 2010, 398, 1979-1984.	3.7	9
59	Procedure for the isolation of vanillin from vanilla extracts prior to isotopic authentication by quantitative ¹³Câ€NMR. Flavour and Fragrance Journal, 2010, 25, 463-467.	2.6	12
60	Performance Evaluation of Quantitative Adiabatic ¹³C NMR Pulse Sequences for Site-Specific Isotopic Measurements. Analytical Chemistry, 2010, 82, 5582-5590.	6.5	51
61	Improved Characterization of the Botanical Origin of Sugar by Carbon-13 SNIF-NMR Applied to Ethanol. Journal of Agricultural and Food Chemistry, 2010, 58, 11580-11585.	5.2	55
62	Isotopic 13C NMR spectrometry to assess counterfeiting of active pharmaceutical ingredients: Site-specific 13C content of aspirin and paracetamol. Journal of Pharmaceutical and Biomedical Analysis, 2009, 50, 336-341.	2.8	81
63	Evidence of 13C non-covalent isotope effects obtained by quantitative 13C nuclear magnetic resonance spectroscopy at natural abundance during normal phase liquid chromatography. Journal of Chromatography A, 2009, 1216, 7043-7048.	3.7	24
64	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. Analytical Biochemistry, 2009, 393, 182-188.	2.4	27
65	Accurate Quantitative Isotopic ¹³C NMR Spectroscopy for the Determination of the Intramolecular Distribution of ¹³C in Glucose at Natural Abundance. Analytical Chemistry, 2009, 81, 8978-8985.	6.5	68
66	Unexpected Fractionation in Site-Specific13C Isotopic Distribution Detected by Quantitative13C NMR at Natural Abundance. Journal of the American Chemical Society, 2008, 130, 414-415.	13.7	52
67	Precise and accurate quantitative 13C NMR with reduced experimental time. Talanta, 2007, 71, 1016-1021.	5.5	86
68	Accurate Quantitative ¹³C NMR Spectroscopy:â€‰ Repeatability over Time of Site-Specific ¹³C Isotope Ratio Determination. Analytical Chemistry, 2007, 79, 8266-8269.	6.5	90
69	Strategy for specific isotope ratio determination by quantitative NMR on symmetrical molecules: application to glycerol. Tetrahedron: Asymmetry, 2006, 17, 1622-1624.	1.8	15
70	Traceability in quantitative NMR using an electronic signal as working standard. Accreditation and Quality Assurance, 2005, 10, 415-420.	0.8	18
71	Quantification of the1Hâ€Decoupling Effects on the Accuracy of13Câ€NMR Measurements. Instrumentation Science and Technology, 2005, 33, 391-399.	1.8	22
72	Hydrogen Isotopic Profile in the Characterization of Sugars. Influence of the Metabolic Pathway. Journal of Agricultural and Food Chemistry, 2002, 50, 1574-1580.	5.2	48

#	Article	IF	Citations
73	Authentication of Lemon Juices and Concentrates by a Combined Multi-isotope Approach Using SNIF-NMR and IRMS. Journal of Agricultural and Food Chemistry, 1998, 46, 2200-2205.	5.2	45
74	Authentication of Bitter Almond Oil and Cinnamon Oil:Â Application of the SNIF-NMR Method to Benzaldehyde. Journal of Agricultural and Food Chemistry, 1997, 45, 4042-4048.	5.2	69
75	Detection of Sophisticated Adulterations of Natural Vanilla Flavors and Extracts:Â Application of the SNIF-NMR Method to Vanillin andp-Hydroxybenzaldehyde. Journal of Agricultural and Food Chemistry, 1997, 45, 859-866.	5.2	120
76	The effect of protecting groups of the nucleobase and the sugar moieties on the acidic hydrolysis of the glycosidic bond of 2deoxyadenosine: a kinet. Tetrahedron, 1987, 43, 4453-4461.	1.9	39