Miguel A Rodrguez

List of Publications by Citations

41 papers	1,016 citations	19 h-index	31 g-index
45 ext. papers	1,196 ext. citations	5 avg, IF	3.65 L-index

#	Paper	IF	Citations
41	Metabolomic assessment of the effect of dietary cholesterol in the progressive development of fatty liver disease. *Journal of Proteome Research*, **2010**, 9, 2527-38	5.6	107
40	Liposcale: a novel advanced lipoprotein test based on 2D diffusion-ordered 1H NMR spectroscopy. *Journal of Lipid Research*, **2015**, 56, 737-746	6.3	90
39	Assessment of compatibility between extraction methods for NMR- and LC/MS-based metabolomics. *Analytical Chemistry*, **2012**, 84, 5838-44	7.8	69
38	Urine metabolome profiling of immune-mediated inflammatory diseases. *BMC Medicine*, **2016**, 14, 133	11.4	67
37	Metabolomics approach for analyzing the effects of exercise in subjects with type 1 diabetes mellitus. *PLoS ONE*, **2012**, 7, e40600	3.7	54
36	(1)H-NMR-based metabolomic analysis of the effect of moderate wine consumption on subjects with cardiovascular risk factors. *Electrophoresis*, **2012**, 33, 2345-54	3.6	50
35	Human serum/plasma lipoprotein analysis by NMR: application to the study of diabetic dyslipidemia. *Progress in Nuclear Magnetic Resonance Spectroscopy*, **2013**, 70, 1-24	10.4	42
34	Dolphin: a tool for automatic targeted metabolite profiling using 1D and 2D (1)H-NMR data. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 7967-76	4.4	40
33	Adipose tissue glycogen accumulation is associated with obesity-linked inflammation in humans. *Molecular Metabolism*, **2016**, 5, 5-18	8.8	37
32	Metabolomics reveals reduction of metabolic oxidation in women with polycystic ovary syndrome after pioglitazone-flutamide-metformin polytherapy. *PLoS ONE*, **2011**, 6, e29052	3.7	34
31	Focus: a robust workflow for one-dimensional NMR spectral analysis. *Analytical Chemistry*, **2014**, 86, 1160-9	7.9	33
30	Dietary proanthocyanidins boost hepatic NAD(+) metabolism and SIRT1 expression and activity in a dose-dependent manner in healthy rats. *Scientific Reports*, **2016**, 6, 24977	4.9	31
29	Stereoselective synthesis of 2-deoxy-2-iodo-glycosides from furanoses. A new route to 2-deoxy-glycosides and 2-deoxy-oligosaccharides of ribo and xylo configuration. *Journal of Organic Chemistry*, **2005**, 70, 10297-310	4.2	28
28	Liver fat deposition and mitochondrial dysfunction in morbid obesity: An approach combining metabolomics with liver imaging and histology. *World Journal of Gastroenterology*, **2015**, 21, 7529-44	5.6	28
27	General method for synthesizing pyranoid glycals. A new route to allal and gulal derivatives. *Organic Letters*, **2006**, 8, 673-5	6.2	27
26	Particle size measurement of lipoprotein fractions using diffusion-ordered NMR spectroscopy. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 2407-15	4.4	23
25	Synthesis of 2-iodoglycals, glycals, and 1,1'-disaccharides from 2-Deoxy-2-iodopyranoses under dehydrative glycosylation conditions. *Journal of Organic Chemistry*, **2007**, 72, 8998-9001	4.2	23

24	Surface fitting of 2D diffusion-edited 1H NMR spectroscopy data for the characterisation of human plasma lipoproteins. *Metabolomics*, **2011**, 7, 572-582	4.7	21
23	Metabolic phenotyping of genetically modified mice: An NMR metabonomic approach. *Biochimie*, **2009**, 91, 1053-7	4.6	21
22	Analytical methods in sphingolipidomics: Quantitative and profiling approaches in food analysis. *Journal of Chromatography A*, **2016**, 1428, 16-38	4.5	19
21	Nutri-metabolomics: subtle serum metabolic differences in healthy subjects by NMR-based metabolomics after a short-term nutritional intervention with two tomato sauces. *OMICS A Journal of Integrative Biology*, **2013**, 17, 611-8	3.8	19
20	Stereoselective Synthesis of 2-Deoxy-2-phenylselenenyl Glycosides from Furanoses: Implication of the Phenylselenenyl Group in the Stereocontrolled Preparation of 2-Deoxy-ribo- and 2-Deoxy-xylo-oligosaccharides. *European Journal of Organic Chemistry*, **2007**, 2007, 3564-3572	3.2	19
19	Foodomics imaging by mass spectrometry and magnetic resonance. *Electrophoresis*, **2016**, 37, 1748-67	3.6	18
18	Null diffusion-based enrichment for metabolomics data. *PLoS ONE*, **2017**, 12, e0189012	3.7	16
17	Epigenetic programming at the Mogat1 locus may link neonatal overnutrition with long-term hepatic steatosis and insulin resistance. *FASEB Journal*, **2018**, 32, fj201700717RR	0.9	16
16	Stereoselective Synthesis of 2-Deoxyglycosides from Sulfanyl Alkenes by Consecutive "One Pot" Cyclization and Glycosylation Reactions. *European Journal of Organic Chemistry*, **2007**, 2007, 2470-2476	3.2	15
15	Positional Enrichment by Proton Analysis (PEPA): A One-Dimensional H-NMR Approach for C Stable Isotope Tracer Studies in Metabolomics. *Angewandte Chemie - International Edition*, **2017**, 56, 3531-3535	16.4	12
14	Metabolomics reveals impaired maturation of HDL particles in adolescents with hyperinsulinaemic androgen excess. *Scientific Reports*, **2015**, 5, 11496	4.9	10
13	Hepatic accumulation of S-adenosylmethionine in hamsters with non-alcoholic fatty liver disease associated with metabolic syndrome under selenium and vitamin E deficiency. *Clinical Science*, **2019**, 133, 409-423	6.5	10
12	A (1)H NMR metabolic profiling to the assessment of protein tyrosine phosphatase 1B role in liver regeneration after partial hepatectomy. *Biochimie*, **2013**, 95, 808-16	4.6	9
11	Studies on the Zn(II)-mediated electrophilic selenocyclization and elimination of 3,4-O-isopropylidene-protected hydroxyalkenyl sulfides: synthesis of a 2-phenylselenenyl glycal. *Carbohydrate Research*, **2010**, 345, 1041-5	2.9	6
10	Beneficial Effects of a Low-dose of Conjugated Linoleic Acid on Body Weight Gain and other Cardiometabolic Risk Factors in Cafeteria Diet-fed Rats. *Nutrients*, **2020**, 12,	6.7	5
9	Use of multivariate chemometric algorithms on 1H NMR data to assess a soluble fiber (Plantago ovata husk) nutritional intervention. *Chemometrics and Intelligent Laboratory Systems*, **2013**, 121, 1-8	3.8	5
8	Highly reactive 2-deoxy-2-iodo-d- and d- pyranosyl sulfoxide donors ensure stereoselective glycosylations with steroidal aglycones.. *RSC Advances*, **2018**, 8, 30076-30079	3.7	3
7	Metabolomics Analyses to Investigate the Role of Diet and Physical Training. *Methods in Molecular Biology*, **2019**, 1978, 403-430	1.4	2

6	Dolphin 1D: Improving Automation of Targeted Metabolomics in Multi-matrix Datasets of (^1)H-NMR Spectra. *Advances in Intelligent Systems and Computing*, **2015**, 59-67	0.4	2
5	The Disruption of Liver Metabolic Circadian Rhythms by a Cafeteria Diet Is Sex-Dependent in Fischer 344 Rats. *Nutrients*, **2020**, 12,	6.7	2
4	Positional Enrichment by Proton Analysis (PEPA): A One-Dimensional 1H-NMR Approach for 13C Stable Isotope Tracer Studies in Metabolomics. *Angewandte Chemie*, **2017**, 129, 3585-3589	3.6	1
3	A novel dietary multifunctional ingredient reduces body weight and improves leptin sensitivity in cafeteria diet-fed rats. *Journal of Functional Foods*, **2020**, 73, 104141	5.1	1
2	A multifunctional ingredient for the management of metabolic syndrome in cafeteria diet-fed rats. *Food and Function*, **2021**, 12, 815-824	6.1	1
1	Muscular carnosine is a marker for cardiorespiratory fitness and cardiometabolic risk factors in men with type 1 diabetes.. *European Journal of Applied Physiology*, **2022**, 1	3.4	