Daniel Raftery

List of Publications by Citations

208 papers	9,570 citations	49 h-index	92 g-index
233 ext. papers	11,578 ext. citations	5.7 avg, IF	6.41 L-index

#	Paper	IF	Citations
208	The future of NMR-based metabolomics. *Current Opinion in Biotechnology*, **2017**, 43, 34-40	11.4	500
207	Visible Light Driven V-Doped TiO2 Photocatalyst and Its Photooxidation of Ethanol. *Journal of Physical Chemistry B*, **2001**, 105, 2815-2819	3.4	495
206	Metabolomics-based methods for early disease diagnostics. *Expert Review of Molecular Diagnostics*, **2008**, 8, 617-33	3.8	452
205	NMR Spectroscopy for Metabolomics Research. *Metabolites*, **2019**, 9,	5.6	330
204	Comparing and combining NMR spectroscopy and mass spectrometry in metabolomics. *Analytical and Bioanalytical Chemistry*, **2007**, 387, 525-7	4.4	319
203	The metabolome regulates the epigenetic landscape during naive-to-primed human embryonic stem cell transition. *Nature Cell Biology*, **2015**, 17, 1523-35	23.4	249
202	Early detection of recurrent breast cancer using metabolite profiling. *Cancer Research*, **2010**, 70, 8309-18	10.1	229
201	Detection of Succinate by Intestinal Tuft Cells Triggers a Type 2 Innate Immune Circuit. *Immunity*, **2018**, 49, 33-41.e7	32.3	199
200	Altered proteome turnover and remodeling by short-term caloric restriction or rapamycin rejuvenate the aging heart. *Aging Cell*, **2014**, 13, 529-39	9.9	194
199	Quantitative metabolomics by H-NMR and LC-MS/MS confirms altered metabolic pathways in diabetes. *PLoS ONE*, **2010**, 5, e10538	3.7	188
198	Standardizing the experimental conditions for using urine in NMR-based metabolomic studies with a particular focus on diagnostic studies: a review. *Metabolomics*, **2015**, 11, 872-894	4.7	171
197	Defective Branched-Chain Amino Acid Catabolism Disrupts Glucose Metabolism and Sensitizes the Heart to Ischemia-Reperfusion Injury. *Cell Metabolism*, **2017**, 25, 374-385	24.6	159
196	Nitrogen-Doped In2O3Thin Film Electrodes for Photocatalytic Water Splitting. *Journal of Physical Chemistry C*, **2007**, 111, 14579-14588	3.8	148
195	Colorectal cancer detection using targeted serum metabolic profiling. *Journal of Proteome Research*, **2014**, 13, 4120-30	5.6	147
194	Photoelectrochemical and structural characterization of carbon-doped WO3 films prepared via spray pyrolysis. *International Journal of Hydrogen Energy*, **2009**, 34, 8476-8484	6.7	145
193	Metabolic signatures of bacterial vaginosis. *MBio*, **2015**, 6,	7.8	143
192	Can NMR solve some significant challenges in metabolomics?. *Journal of Magnetic Resonance*, **2015**, 260, 144-60	3	142

191	EGFR Signaling Enhances Aerobic Glycolysis in Triple-Negative Breast Cancer Cells to Promote Tumor Growth and Immune Escape. *Cancer Research*, **2016**, 76, 1284-96	10.1	141
190	Principal component analysis of urine metabolites detected by NMR and DESI-MS in patients with inborn errors of metabolism. *Analytical and Bioanalytical Chemistry*, **2007**, 387, 539-49	4.4	133
189	Correlative and quantitative 1H NMR-based metabolomics reveals specific metabolic pathway disturbances in diabetic rats. *Analytical Biochemistry*, **2008**, 383, 76-84	3.1	133
188	Expanding the limits of human blood metabolite quantitation using NMR spectroscopy. *Analytical Chemistry*, **2015**, 87, 706-15	7.8	124
187	Deregulated Myc requires MondoA/Mlx for metabolic reprogramming and tumorigenesis. *Cancer Cell*, **2015**, 27, 271-85	24.3	124
186	Quantitating metabolites in protein precipitated serum using NMR spectroscopy. *Analytical Chemistry*, **2014**, 86, 5433-40	7.8	123
185	An open-label, non-randomized study of the pharmacokinetics of the nutritional supplement nicotinamide riboside (NR) and its effects on blood NAD+ levels in healthy volunteers. *PLoS ONE*, **2017**, 12, e0186459	3.7	123
184	Principal component directed partial least squares analysis for combining nuclear magnetic resonance and mass spectrometry data in metabolomics: application to the detection of breast cancer. *Analytica Chimica Acta*, **2011**, 686, 57-63	6.6	121
183	Recent Advances in NMR-Based Metabolomics. *Analytical Chemistry*, **2017**, 89, 490-510	7.8	109
182	Use of selective TOCSY NMR experiments for quantifying minor components in complex mixtures: application to the metabonomics of amino acids in honey. *Analytical Chemistry*, **2005**, 77, 2455-63	7.8	103
181	Metabolomics approach for predicting response to neoadjuvant chemotherapy for breast cancer. *Molecular Oncology*, **2013**, 7, 297-307	7.9	97
180	15N Solid State NMR and EPR Characterization of N-Doped TiO2Photocatalysts. *Journal of Physical Chemistry C*, **2007**, 111, 2738-2748	3.8	97
179	Recommendations and Standardization of Biomarker Quantification Using NMR-Based Metabolomics with Particular Focus on Urinary Analysis. *Journal of Proteome Research*, **2016**, 15, 360-73	5.6	94
178	Advances in NMR-based biofluid analysis and metabolite profiling. *Analyst, The*, **2010**, 135, 1490-8	5	93
177	Class selection of amino acid metabolites in body fluids using chemical derivatization and their enhanced 13C NMR. *Proceedings of the National Academy of Sciences of the United States of America* , **2007**, 104, 11540-4	11.5	84
176	Esophageal cancer metabolite biomarkers detected by LC-MS and NMR methods. *PLoS ONE*, **2012**, 7, e30181	3.7	81
175	Rapamycin transiently induces mitochondrial remodeling to reprogram energy metabolism in old hearts. *Aging*, **2016**, 8, 314-27	5.6	78
174	Effect of Irradiation Sources and Oxygen Concentration on the Photocatalytic Oxidation of 2-Propanol and Acetone Studied by in Situ FTIR. *Journal of Physical Chemistry B*, **2003**, 107, 4537-4544	3.4	74

173	Globally Optimized Targeted Mass Spectrometry: Reliable Metabolomics Analysis with Broad Coverage. *Analytical Chemistry*, **2015**, 87, 12355-62	7.8	71
172	Glucose promotes cell growth by suppressing branched-chain amino acid degradation. *Nature Communications*, **2018**, 9, 2935	17.4	68
171	Metabolomics and Gene Expression Analysis Reveal Down-regulation of the Citric Acid (TCA) Cycle in Non-diabetic CKD Patients. *EBioMedicine*, **2017**, 26, 68-77	8.8	68
170	Biomarker Discovery and Translation in Metabolomics. *Current Metabolomics*, **2013**, 1, 227-240	1	67
169	15N-cholamine--a smart isotope tag for combining NMR- and MS-based metabolite profiling. *Analytical Chemistry*, **2013**, 85, 8715-21	7.8	66
168	Towards quality assurance and quality control in untargeted metabolomics studies. *Metabolomics*, **2019**, 15, 4	4.7	63
167	Fnip1 regulates skeletal muscle fiber type specification, fatigue resistance, and susceptibility to muscular dystrophy. *Proceedings of the National Academy of Sciences of the United States of America* , **2015**, 112, 424-9	11.5	62
166	Solid-State Characterization of the Nuclear and Electronic Environments in a Boron−Fluoride Co-doped TiO2 Visible-Light Photocatalyst. *Journal of Physical Chemistry C*, **2007**, 111, 17146-17154	3.8	60
165	Pre-SAT180, a simple and effective method for residual water suppression. *Journal of Magnetic Resonance*, **2008**, 190, 1-6	3	59
164	1H NMR metabolomics study of age profiling in children. *NMR in Biomedicine*, **2009**, 22, 826-33	4.4	56
163	Characterization of Photoactive Centers in N-Doped In2O3 Visible Photocatalysts for Water Oxidation. *Journal of Physical Chemistry C*, **2009**, 113, 12558-12570	3.8	56
162	Metabolic Remodeling Promotes Cardiac Hypertrophy by Directing Glucose to Aspartate Biosynthesis. *Circulation Research*, **2020**, 126, 182-196	15.7	56
161	Chemoselective 15N tag for sensitive and high-resolution nuclear magnetic resonance profiling of the carboxyl-containing metabolome. *Analytical Chemistry*, **2009**, 81, 4882-8	7.8	51
160	High-throughput nuclear magnetic resonance analysis using a multiple coil flow probe. *Analytical Chemistry*, **2003**, 75, 5116-23	7.8	49
159	Human retinal pigment epithelial cells prefer proline as a nutrient and transport metabolic intermediates to the retinal side. *Journal of Biological Chemistry*, **2017**, 292, 12895-12905	5.4	48
158	Transcriptomic, proteomic, and metabolomic landscape of positional memory in the caudal fin of zebrafish. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E717-E726	11.5	47
157	Dietary biomarker evaluation in a controlled feeding study in women from the Women's Health Initiative cohort. *American Journal of Clinical Nutrition*, **2017**, 105, 466-475	7	47
156	Targeted serum metabolite profiling and sequential metabolite ratio analysis for colorectal cancer progression monitoring. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 7857-63	4.4	47

155	Identification of novel candidate plasma metabolite biomarkers for distinguishing serous ovarian carcinoma and benign serous ovarian tumors. *Gynecologic Oncology*, **2016**, 140, 138-44	4.9	47
154	Use of semiselective TOCSY and the pearson correlation for the metabonomic analysis of biofluid mixtures: application to urine. *Analytical Chemistry*, **2005**, 77, 7717-23	7.8	47
153	NMR-based metabolomics study of canine bladder cancer. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2012**, 1822, 1807-14	6.9	46
152	Metabolomics study of esophageal adenocarcinoma. *Journal of Thoracic and Cardiovascular Surgery*, **2011**, 141, 469-75, 475.e1-4	1.5	46
151	Quantitative analysis of blood plasma metabolites using isotope enhanced NMR methods. *Analytical Chemistry*, **2010**, 82, 8983-90	7.8	45
150	Breast cancer detection using targeted plasma metabolomics. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2019**, 1105, 26-37	3.2	45
149	Salivary metabolite profiling distinguishes patients with oral cavity squamous cell carcinoma from normal controls. *PLoS ONE*, **2018**, 13, e0204249	3.7	45
148	PBDEs Altered Gut Microbiome and Bile Acid Homeostasis in Male C57BL/6 Mice. *Drug Metabolism and Disposition*, **2018**, 46, 1226-1240	4	45
147	Simultaneous Analysis of Major Coenzymes of Cellular Redox Reactions and Energy Using ex Vivo (1)H NMR Spectroscopy. *Analytical Chemistry*, **2016**, 88, 4817-24	7.8	40
146	Combining NMR and LC/MS Using Backward Variable Elimination: Metabolomics Analysis of Colorectal Cancer, Polyps, and Healthy Controls. *Analytical Chemistry*, **2016**, 88, 7975-83	7.8	39
145	Application of 31P NMR spectroscopy and chemical derivatization for metabolite profiling of lipophilic compounds in human serum. *Magnetic Resonance in Chemistry*, **2009**, 47 Suppl 1, S74-80	2.1	39
144	Solvent signal as an NMR concentration reference. *Analytical Chemistry*, **2008**, 80, 9835-9	7.8	39
143	Ratio analysis nuclear magnetic resonance spectroscopy for selective metabolite identification in complex samples. *Analytical Chemistry*, **2011**, 83, 7616-23	7.8	38
142	TFPa/HADHA is required for fatty acid beta-oxidation and cardiolipin re-modeling in human cardiomyocytes. *Nature Communications*, **2019**, 10, 4671	17.4	37
141	Whole Blood Metabolomics by H NMR Spectroscopy Provides a New Opportunity To Evaluate Coenzymes and Antioxidants. *Analytical Chemistry*, **2017**, 89, 4620-4627	7.8	36
140	Targeted plasma metabolome response to variations in dietary glycemic load in a randomized, controlled, crossover feeding trial in healthy adults. *Food and Function*, **2015**, 6, 2949-56	6.1	36
139	Use of EDTA to minimize ionic strength dependent frequency shifts in the 1H NMR spectra of urine. *Metabolomics*, **2008**, 4, 328-336	4.7	36
138	Perspective: Dietary Biomarkers of Intake and Exposure-Exploration with Omics Approaches. *Advances in Nutrition*, **2020**, 11, 200-215	10	35

137	Transcriptome and DNA Methylome Analysis in a Mouse Model of Diet-Induced Obesity Predicts Increased Risk of Colorectal Cancer. *Cell Reports*, **2018**, 22, 624-637	10.6	34
136	Quantitative Method to Investigate the Balance between Metabolism and Proteome Biomass: Starting from Glycine. *Angewandte Chemie - International Edition*, **2016**, 55, 15646-15650	16.4	33
135	Metabolic profiling of gender: Headspace-SPME/GCMS and 1H NMR analysis of urine. *Metabolomics*, **2012**, 8, 323-334	4.7	33
134	Improved residual water suppression: WET180. *Journal of Biomolecular NMR*, **2008**, 41, 105-11	3	33
133	TiO2 Photocatalytic Degradation of Dichloromethane: An FTIR and Solid-State NMR Study. *Journal of Physical Chemistry B*, **2004**, 108, 5640-5646	3.4	33
132	Analysis of multiple samples using multiplex sample NMR: selective excitation and chemical shift imaging approaches. *Analytical Chemistry*, **2001**, 73, 2541-6	7.8	33
131	Targeted metabolic profiling of hepatocellular carcinoma and hepatitis C using LC-MS/MS. *Electrophoresis*, **2013**, 34, 2910-7	3.6	32
130	NMR-Guided Mass Spectrometry for Absolute Quantitation of Human Blood Metabolites. *Analytical Chemistry*, **2018**, 90, 2001-2009	7.8	31
129	Metabolomics method to comprehensively analyze amino acids in different domains. *Analyst, The*, **2015**, 140, 2726-34	5	31
128	Metabolic profiles of triple-negative and luminal A breast cancer subtypes in African-American identify key metabolic differences. *Oncotarget*, **2018**, 9, 11677-11690	3.3	30
127	Circulating bile acids in healthy adults respond differently to a dietary pattern characterized by whole grains, legumes and fruits and vegetables compared to a diet high in refined grains and added sugars: A randomized, controlled, crossover feeding study. *Metabolism: Clinical and Experimental*, **2018**, 83, 197-204	12.7	29
126	Use of optimized 1D TOCSY NMR for improved quantitation and metabolomic analysis of biofluids. *Journal of Biomolecular NMR*, **2011**, 49, 281-90	3	29
125	Identification of 4-deoxythreonic acid present in human urine using HPLC and NMR techniques. *Journal of Pharmaceutical and Biomedical Analysis*, **2009**, 50, 878-85	3.5	29
124	Targeted serum metabolite profiling of nucleosides in esophageal adenocarcinoma. *Rapid Communications in Mass Spectrometry*, **2010**, 24, 3057-62	2.2	29
123	Ibuprofen metabolite profiling using a combination of SPE/column-trapping and HPLC-micro-coil NMR. *Journal of Pharmaceutical and Biomedical Analysis*, **2008**, 47, 328-34	3.5	29
122	Use of Metabolomics to Trend Recovery and Therapy After Injury in Critically Ill Trauma Patients. *JAMA Surgery*, **2016**, 151, e160853	5.4	29
121	Signal enhancement in HPLC/microcoil NMR using automated column trapping. *Analytical Chemistry*, **2006**, 78, 7154-60	7.8	28
120	Metabolic profiling identifies phospholipids as potential serum biomarkers for schizophrenia. *Psychiatry Research*, **2019**, 272, 18-29	9.9	27

119	Massive glutamine cyclization to pyroglutamic acid in human serum discovered using NMR spectroscopy. *Analytical Chemistry*, **2015**, 87, 3800-5	7.8	26
118	RAMSY: ratio analysis of mass spectrometry to improve compound identification. *Analytical Chemistry*, **2013**, 85, 10771-9	7.8	25
117	Pharmacological Activation of PXR and CAR Downregulates Distinct Bile Acid-Metabolizing Intestinal Bacteria and Alters Bile Acid Homeostasis. *Toxicological Sciences*, **2019**, 168, 40-60	4.4	25
116	Serum Tryptophan Metabolite Levels During Sleep in Patients With and Without Irritable Bowel Syndrome (IBS). *Biological Research for Nursing*, **2016**, 18, 193-8	2.6	24
115	Exploring Metabolic Profile Differences between Colorectal Polyp Patients and Controls Using Seemingly Unrelated Regression. *Journal of Proteome Research*, **2015**, 14, 2492-9	5.6	24
114	1,25-dihydroxyvitamin D regulation of glucose metabolism in Harvey-ras transformed MCF10A human breast epithelial cells. *Journal of Steroid Biochemistry and Molecular Biology*, **2013**, 138, 81-9	5.1	24
113	Differentiating hepatocellular carcinoma from hepatitis C using metabolite profiling. *Metabolites*, **2012**, 2, 701-16	5.6	24
112	R: A quantitative measure of NMR signal receiving efficiency. *Journal of Magnetic Resonance*, **2009**, 200, 239-44	3	24
111	Design and construction of a versatile dual volume heteronuclear double resonance microcoil NMR probe. *Journal of Magnetic Resonance*, **2009**, 197, 186-92	3	23
110	Construction and Evaluation of a LEGO Spectrophotometer for Student Use. *The Chemical Educator*, **2002**, 7, 371-375		23
109	Genetic and metabolomic architecture of variation in diet restriction-mediated lifespan extension in Drosophila. *PLoS Genetics*, **2020**, 16, e1008835	6	22
108	Mass Spectral Similarity Networking and Gas-Phase Fragmentation Reactions in the Structural Analysis of Flavonoid Glycoconjugates. *Analytical Chemistry*, **2019**, 91, 10413-10423	7.8	22
107	Efficient photocatalytic hydrogen production by platinum-loaded carbon-doped cadmium indate nanoparticles. *ACS Applied Materials & Interfaces*, **2012**, 4, 2426-31	9.5	22
106	New Solenoidal Microcoil NMR Probe Using Zero-Susceptibility Wire. *Concepts in Magnetic Resonance Part B*, **2010**, 37B, 13-19	2.3	22
105	Altered glucose metabolism in Harvey-ras transformed MCF10A cells. *Molecular Carcinogenesis*, **2015**, 54, 111-20	5	21
104	13C-formylation for improved nuclear magnetic resonance profiling of amino metabolites in biofluids. *Analytical Chemistry*, **2010**, 82, 2303-9	7.8	21
103	Susceptibility-matched plugs for microcoil NMR probes. *Journal of Magnetic Resonance*, **2010**, 205, 63-8	3	21
102	Candidate serum metabolite biomarkers for differentiating gastroesophageal reflux disease, Barrett's esophagus, and high-grade dysplasia/esophageal adenocarcinoma. *Metabolomics*, **2017**, 13, 1	4.7	20

101	Polybrominated Diphenyl Ethers and Gut Microbiome Modulate Metabolic Syndrome-Related Aqueous Metabolites in Mice. *Drug Metabolism and Disposition*, **2019**, 47, 928-940	4	20
100	Receiver gain function: the actual NMR receiver gain. *Magnetic Resonance in Chemistry*, **2010**, 48, 235-8	2.1	20
99	PPAR□contributes to protection against metabolic and inflammatory derangements associated with acute kidney injury in experimental sepsis. *Physiological Reports*, **2019**, 7, e14078	2.6	19
98	Plasma metabolomics profiles suggest beneficial effects of a low-glycemic load dietary pattern on inflammation and energy metabolism. *American Journal of Clinical Nutrition*, **2019**, 110, 984-992	7	18
97	Detection of hepatocellular carcinoma in hepatitis C patients: biomarker discovery by LC-MS. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2014**, 966, 154-62	2.2	18
96	1,25-Dihydroxyvitamin D inhibits glutamine metabolism in Harvey-ras transformed MCF10A human breast epithelial cell. *Journal of Steroid Biochemistry and Molecular Biology*, **2016**, 163, 147-56	5.1	17
95	A Metabolomics Study of BPTES Altered Metabolism in Human Breast Cancer Cell Lines. *Frontiers in Molecular Biosciences*, **2018**, 5, 49	5.6	17
94	"Add to subtract": a simple method to remove complex background signals from the 1H nuclear magnetic resonance spectra of mixtures. *Analytical Chemistry*, **2012**, 84, 994-1002	7.8	17
93	Characterization of surface and photooxidative properties of supported metal oxide photocatalysts using solid-state NMR. *Analytical Sciences*, **2001**, 17, 125-30	1.7	17
92	Parenteral and enteral nutrition in surgical critical care: Plasma metabolomics demonstrates divergent effects on nitrogen, fatty-acid, ribonucleotide, and oxidative metabolism. *Journal of Trauma and Acute Care Surgery*, **2017**, 82, 704-713	3.3	15
91	Rubidium□enon spin exchange and relaxation rates measured at high pressure and high magnetic field. *Journal of Chemical Physics*, **2002**, 117, 5632-5641	3.9	15
90	Multiplatform Metabolomics Investigation of Antiadipogenic Effects on 3T3-L1 Adipocytes by a Potent Diarylheptanoid. *Journal of Proteome Research*, **2018**, 17, 2092-2101	5.6	14
89	Targeted metabolic profiling of wounds in diabetic and nondiabetic mice. *Wound Repair and Regeneration*, **2015**, 23, 423-34	3.6	14
88	Altered metabolite levels and correlations in patients with colorectal cancer and polyps detected using seemingly unrelated regression analysis. *Metabolomics*, **2017**, 13, 1	4.7	13
87	Plasma metabolite abundances are associated with urinary enterolactone excretion in healthy participants on controlled diets. *Food and Function*, **2017**, 8, 3209-3218	6.1	13
86	A quick diagnostic test for NMR receiver gain compression. *Magnetic Resonance in Chemistry*, **2010**, 48, 782-6	2.1	12
85	Design and construction of a microcoil NMR probe for the routine analysis of 20-□ samples. *Concepts in Magnetic Resonance Part B*, **2008**, 33B, 1-8	2.3	12
84	Dereplication of Natural Products Using GC-TOF Mass Spectrometry: Improved Metabolite Identification by Spectral Deconvolution Ratio Analysis. *Frontiers in Molecular Biosciences*, **2016**, 3, 59	5.6	12

83	Dynamic Metabolic Response to Adriamycin-Induced Senescence in Breast Cancer Cells. *Metabolites* , **2018**, 8,	5.6	12
82	Isotope enhanced approaches in metabolomics. *Advances in Experimental Medicine and Biology*, **2012**, 992, 147-64	3.6	11
81	Saturation transfer double-difference NMR spectroscopy using a dual solenoid microcoil difference probe. *Magnetic Resonance in Chemistry*, **2008**, 46, 925-9	2.1	11
80	Chronic kidney disease attenuates the plasma metabolome response to insulin. *JCI Insight*, **2018**, 3,	9.9	11
79	Regional metabolic signatures in the Ndufs4(KO) mouse brain implicate defective glutamate/□ketoglutarate metabolism in mitochondrial disease. *Molecular Genetics and Metabolism*, **2020**, 130, 118-132	3.7	11
78	Loss of Fnip1 alters kidney developmental transcriptional program and synergizes with TSC1 loss to promote mTORC1 activation and renal cyst formation. *PLoS ONE*, **2018**, 13, e0197973	3.7	11
77	Combining NMR and MS with Chemical Derivatization for Absolute Quantification with Reduced Matrix Effects. *Analytical Chemistry*, **2019**, 91, 4055-4062	7.8	10
76	Distinguishing NASH Histological Severity Using a Multiplatform Metabolomics Approach. *Metabolites*, **2020**, 10,	5.6	10
75	Overview of NMR Spectroscopy-Based Metabolomics: Opportunities and Challenges. *Methods in Molecular Biology*, **2019**, 2037, 3-14	1.4	10
74	Five Easy Metrics of Data Quality for LC-MS-Based Global Metabolomics. *Analytical Chemistry*, **2020**, 92, 12925-12933	7.8	10
73	Mass Spectrometry and NMR Spectroscopy□Based Quantitative Metabolomics **2013**, 279-297		9
72	Cerebrospinal fluid lipidomics: effects of an intravenous triglyceride infusion and apoE status. *Metabolomics*, **2019**, 16, 6	4.7	9
71	Depletion of mitochondrial inorganic polyphosphate (polyP) in mammalian cells causes metabolic shift from oxidative phosphorylation to glycolysis. *Biochemical Journal*, **2021**, 478, 1631-1646	3.8	9
70	Metabolomics Test Materials for Quality Control: A Study of a Urine Materials Suite. *Metabolites*, **2019**, 9,	5.6	8
69	Advances in NMR-Based Metabolomics. *Comprehensive Analytical Chemistry*, **2014**, 187-211	1.9	8
68	Combining Hydrophilic Interaction Chromatography (HILIC) and Isotope Tagging for Off-Line LC-NMR Applications in Metabolite Analysis. *Metabolites*, **2013**, 3, 575-91	5.6	8
67	Photoelectrochemical evaluation of undoped and C-doped CdIn2O4 thin film electrodes. *International Journal of Hydrogen Energy*, **2011**, 36, 2785-2793	6.7	8
66	Cross-Laboratory Standardization of Preclinical Lipidomics Using Differential Mobility Spectrometry and Multiple Reaction Monitoring. *Analytical Chemistry*, **2021**,	7.8	8

65	Age- and Genotype-Specific Effects of the Angiotensin-Converting Enzyme Inhibitor Lisinopril on Mitochondrial and Metabolic Parameters in. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	8
64	Metabolomic-based clinical studies and murine models for acute pancreatitis disease: A review. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2021**, 1867, 166123	6.9	8
63	Biomarker-Calibrated Macronutrient Intake and Chronic Disease Risk among Postmenopausal Women. *Journal of Nutrition*, **2021**, 151, 2330-2341	4.1	7
62	Extractive Ratio Analysis NMR Spectroscopy for Metabolite Identification in Complex Biological Mixtures. *Analytical Chemistry*, **2019**, 91, 7373-7378	7.8	6
61	Colorectal Cancer Detection Using Targeted LC-MS Metabolic Profiling. *Methods in Molecular Biology*, **2018**, 1765, 229-240	1.4	6
60	Tryptophan Metabolites in Irritable Bowel Syndrome: An Overnight Time-course Study. *Journal of Neurogastroenterology and Motility*, **2019**, 25, 551-562	4.4	6
59	Preparation of Zeolites Supported on Optical Microfibers. *Chemistry of Materials*, **2002**, 14, 3022-3027	9.6	6
58	Metabolomic Characterization of Human Model of Liver Rejection Identifies Aberrancies Linked to Cyclooxygenase (COX) and Nitric Oxide Synthase (NOS). *Annals of Transplantation*, **2019**, 24, 341-349	1.4	6
57	Evaluation of Fumaric Acid and Maleic Acid as Internal Standards for NMR Analysis of Protein Precipitated Plasma, Serum, and Whole Blood. *Analytical Chemistry*, **2021**, 93, 3233-3240	7.8	6
56	The metabolome as a link in the genotype-phenotype map for peroxide resistance in the fruit fly, Drosophila melanogaster. *BMC Genomics*, **2020**, 21, 341	4.5	5
55	Hydrogen evolution by templated cadmium indate nanoparticles under natural sunlight illumination. *International Journal of Hydrogen Energy*, **2013**, 38, 7741-7749	6.7	5
54	Viime: Visualization and Integration of Metabolomics Experiments. *Journal of Open Source Software* , **2020**, 5,	5.2	5
53	Persistent metabolomic alterations characterize chronic critical illness after severe trauma. *Journal of Trauma and Acute Care Surgery*, **2021**, 90, 35-45	3.3	5
52	Evaluation of potential metabolomic-based biomarkers of protein, carbohydrate and fat intakes using a controlled feeding study. *European Journal of Nutrition*, **2021**, 60, 4207-4218	5.2	5
51	Metabolomics in chronic pain research. *European Journal of Pain*, **2021**, 25, 313-326	3.7	5
50	Glucocerebrosidase reduces the spread of protein aggregation in a Drosophila melanogaster model of neurodegeneration by regulating proteins trafficked by extracellular vesicles. *PLoS Genetics*, **2021**, 17, e1008859	6	5
49	Expanding Urinary Metabolite Annotation through Integrated Mass Spectral Similarity Networking. *Analytical Chemistry*, **2021**, 93, 12001-12010	7.8	5
48	Gut Microbial Protein Expression in Response to Dietary Patterns in a Controlled Feeding Study: A Metaproteomic Approach. *Microorganisms*, **2020**, 8,	4.9	4

47	Metabolomics **2017**, 103-122		4
46	1H NMR study of the effects of sample contamination in the metabolomic analysis of mouse urine. *Journal of Pharmaceutical and Biomedical Analysis*, **2007**, 45, 134-140	3.5	4
45	A DMS Shotgun Lipidomics Workflow Application to Facilitate High-Throughput, Comprehensive Lipidomics. *Journal of the American Society for Mass Spectrometry*, **2021**, 32, 2655-2663	3.5	4
44	Extending the Scope of H NMR-Based Blood Metabolomics for the Analysis of Labile Antioxidants: Reduced and Oxidized Glutathione. *Analytical Chemistry*, **2021**, 93, 14844-14850	7.8	4
43	Mass spectrometry and NMR spectroscopy based quantitative metabolomics **2020**, 289-311		4
42	Characterization of aporphine alkaloids by electrospray ionization tandem mass spectrometry and density functional theory calculations. *Rapid Communications in Mass Spectrometry*, **2020**, 34 Suppl 3, e8533	2.2	4
41	Identifying Significant Metabolic Pathways Using Multi-Block Partial Least-Squares Analysis. *Journal of Proteome Research*, **2020**, 19, 1965-1974	5.6	3
40	NMR-based Metabolite Profiling of Pancreatic Cancer. *Current Metabolomics*, **2015**, 2, 204-212	1	3
39	A versatile computer-controlled pulsed nuclear quadrupole resonance spectrometer. *Review of Scientific Instruments*, **1999**, 70, 4676-4681	1.7	3
38	Metabolic Profiling of Green Tea Treatments in Zucker Diabetic Rats Using H NMR. *Journal of Nutrition & Food Sciences*, **2013**, 3,	0.5	3
37	Plasma lipidomic profiles after a low and high glycemic load dietary pattern in a randomized controlled crossover feeding study. *Metabolomics*, **2020**, 16, 121	4.7	3
36	Calorie restriction prevents age-related changes in the intestinal microbiota. *Aging*, **2021**, 13, 6298-6329	5.6	3
35	NMR-Based Metabolomics. *Advances in Experimental Medicine and Biology*, **2021**, 1280, 19-37	3.6	3
34	Association between postmenopausal vulvovaginal discomfort, vaginal microbiota, and mucosal inflammation. *American Journal of Obstetrics and Gynecology*, **2021**, 225, 159.e1-159.e15	6.4	3
33	Effect of a Flaxseed Lignan Intervention on Circulating Bile Acids in a Placebo-Controlled Randomized, Crossover Trial. *Nutrients*, **2020**, 12,	6.7	2
32	Future Developments Introduction259-279		2
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