

# Jeremy K Nicholson

## List of Publications by Year in descending order

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791  
papers

91,144  
citations

354

139  
h-index

587

268  
g-index

828  
all docs

828  
docs citations

828  
times ranked

64891  
citing authors

#	ARTICLE	IF	CITATIONS
1	Host-Gut Microbiota Metabolic Interactions. <i>Science</i> , 2012, 336, 1262-1267.	6.0	3,693
2	'Metabonomics': understanding the metabolic responses of living systems to pathophysiological stimuli via multivariate statistical analysis of biological NMR spectroscopic data. <i>Xenobiotica</i> , 1999, 29, 1181-1189.	0.5	3,429
3	Metabolic profiling, metabolomic and metabonomic procedures for NMR spectroscopy of urine, plasma, serum and tissue extracts. <i>Nature Protocols</i> , 2007, 2, 2692-2703.	5.5	1,830
4	Metabonomics: a platform for studying drug toxicity and gene function. <i>Nature Reviews Drug Discovery</i> , 2002, 1, 153-161.	21.5	1,739
5	Metabonomics. <i>Nature</i> , 2008, 455, 1054-1056.	13.7	1,660
6	OPLS discriminant analysis: combining the strengths of PLS-DA and SIMCA classification. <i>Journal of Chemometrics</i> , 2006, 20, 341-351.	0.7	1,134
7	Gut Microbiomes of Malawian Twin Pairs Discordant for Kwashiorkor. <i>Science</i> , 2013, 339, 548-554.	6.0	1,012
8	Impact of the gut microbiota on inflammation, obesity, and metabolic disease. <i>Genome Medicine</i> , 2016, 8, 42.	3.6	1,000
9	Symbiotic gut microbes modulate human metabolic phenotypes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 2117-2122.	3.3	994
10	Understanding 'Global' Systems Biology: Metabonomics and the Continuum of Metabolism. <i>Nature Reviews Drug Discovery</i> , 2003, 2, 668-676.	21.5	975
11	750 MHz <sup>1</sup> H and <sup>1</sup> H- <sup>13</sup> C NMR Spectroscopy of Human Blood Plasma. <i>Analytical Chemistry</i> , 1995, 67, 793-811.	3.2	972
12	Human metabolic phenotype diversity and its association with diet and blood pressure. <i>Nature</i> , 2008, 453, 396-400.	13.7	966
13	Metabolic profiling reveals a contribution of gut microbiota to fatty liver phenotype in insulin-resistant mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12511-12516.	3.3	948
14	Rapid and noninvasive diagnosis of the presence and severity of coronary heart disease using <sup>1</sup> H-NMR-based metabonomics. <i>Nature Medicine</i> , 2002, 8, 1439-1445.	15.2	941
15	Global metabolic profiling procedures for urine using UPLC-MS. <i>Nature Protocols</i> , 2010, 5, 1005-1018.	5.5	867
16	Gut microorganisms, mammalian metabolism and personalized health care. <i>Nature Reviews Microbiology</i> , 2005, 3, 431-438.	13.6	861
17	Statistical Total Correlation Spectroscopy: An Exploratory Approach for Latent Biomarker Identification from Metabolic <sup>1</sup> H NMR Data Sets. <i>Analytical Chemistry</i> , 2005, 77, 1282-1289.	3.2	833
18	Pharmaco-metabonomic phenotyping and personalized drug treatment. <i>Nature</i> , 2006, 440, 1073-1077.	13.7	787

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19	Global metabolic profiling of animal and human tissues via UPLC-MS. <i>Nature Protocols</i> , 2013, 8, 17-32.	5.5	774
20	Fat, fibre and cancer risk in African Americans and rural Africans. <i>Nature Communications</i> , 2015, 6, 6342.	5.8	761
21	Metabolic Phenotyping in Health and Disease. <i>Cell</i> , 2008, 134, 714-717.	13.5	711
22	Symbiotic Bacterial Metabolites Regulate Gastrointestinal Barrier Function via the Xenobiotic Sensor PXR and Toll-like Receptor 4. <i>Immunity</i> , 2014, 41, 296-310.	6.6	708
23	Pharmacometabonomic identification of a significant host-microbiome metabolic interaction affecting human drug metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14728-14733.	3.3	665
24	Gut microbiota modulation of chemotherapy efficacy and toxicity. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2017, 14, 356-365.	8.2	643
25	Systemic gut microbial modulation of bile acid metabolism in host tissue compartments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4523-4530.	3.3	625
26	Preparing for Precision Medicine. <i>New England Journal of Medicine</i> , 2012, 366, 489-491.	13.9	579
27	High resolution proton magnetic resonance spectroscopy of biological fluids. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 1989, 21, 449-501.	3.9	570
28	Evaluation of the Orthogonal Projection on Latent Structure Model Limitations Caused by Chemical Shift Variability and Improved Visualization of Biomarker Changes in <sup>1</sup> H NMR Spectroscopic Metabonomic Studies. <i>Analytical Chemistry</i> , 2005, 77, 517-526.	3.2	553
29	Gut microbiome-host interactions in health and disease. <i>Genome Medicine</i> , 2011, 3, 14.	3.6	550
30	Improved WATERGATE Pulse Sequences for Solvent Suppression in NMR Spectroscopy. <i>Journal of Magnetic Resonance</i> , 1998, 132, 125-129.	1.2	518
31	Intraoperative Tissue Identification Using Rapid Evaporative Ionization Mass Spectrometry. <i>Science Translational Medicine</i> , 2013, 5, 194ra93.	5.8	488
32	Molecular phenomics and metagenomics of hepatic steatosis in non-diabetic obese women. <i>Nature Medicine</i> , 2018, 24, 1070-1080.	15.2	465
33	Integrated Metabonomic Analysis of the Multiorgan Effects of Hydrazine Toxicity in the Rat. <i>Chemical Research in Toxicology</i> , 2005, 18, 115-122.	1.7	464
34	Understanding the role of gut microbiome—host metabolic signal disruption in health and disease. <i>Trends in Microbiology</i> , 2011, 19, 349-359.	3.5	452
35	Metabolic phenotyping in clinical and surgical environments. <i>Nature</i> , 2012, 491, 384-392.	13.7	450
36	Gut microbiome interactions with drug metabolism, efficacy, and toxicity. <i>Translational Research</i> , 2017, 179, 204-222.	2.2	439

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37	Scaling and Normalization Effects in NMR Spectroscopic Metabonomic Data Sets. <i>Analytical Chemistry</i> , 2006, 78, 2262-2267.	3.2	438
38	Gut Microbiota Composition and Activity in Relation to Host Metabolic Phenotype and Disease Risk. <i>Cell Metabolism</i> , 2012, 16, 559-564.	7.2	438
39	UPLC/MSE; a new approach for generating molecular fragment information for biomarker structure elucidation. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1989-1994.	0.7	434
40	Gut microbiota: a potential new territory for drug targeting. <i>Nature Reviews Drug Discovery</i> , 2008, 7, 123-129.	21.5	426
41	Metabonomics technologies and their applications in physiological monitoring, drug safety assessment and disease diagnosis. <i>Biomarkers</i> , 2004, 9, 1-31.	0.9	425
42	NMR-based metabonomic approaches for evaluating physiological influences on biofluid composition. <i>NMR in Biomedicine</i> , 2005, 18, 143-162.	1.6	425
43	High Resolution "Ultra Performance" Liquid Chromatography Coupled to oa-TOF Mass Spectrometry as a Tool for Differential Metabolic Pathway Profiling in Functional Genomic Studies. <i>Journal of Proteome Research</i> , 2005, 4, 591-598.	1.8	423
44	A top-down systems biology view of microbiome-mammalian metabolic interactions in a mouse model. <i>Molecular Systems Biology</i> , 2007, 3, 112.	3.2	420
45	Precision High-Throughput Proton NMR Spectroscopy of Human Urine, Serum, and Plasma for Large-Scale Metabolic Phenotyping. <i>Analytical Chemistry</i> , 2014, 86, 9887-9894.	3.2	419
46	Metabolic Profiling of Human Colorectal Cancer Using High-Resolution Magic Angle Spinning Nuclear Magnetic Resonance (HR-MAS NMR) Spectroscopy and Gas Chromatography Mass Spectrometry (GC/MS). <i>Journal of Proteome Research</i> , 2009, 8, 352-361.	1.8	414
47	Metabonomics: Metabolic processes studied by NMR spectroscopy of biofluids. <i>Concepts in Magnetic Resonance</i> , 2000, 12, 289-320.	1.3	401
48	Probiotic modulation of symbiotic gut microbial-host metabolic interactions in a humanized microbiome mouse model. <i>Molecular Systems Biology</i> , 2008, 4, 157.	3.2	392
49	Metabolic surgery profoundly influences gut microbial-host metabolic cross-talk. <i>Gut</i> , 2011, 60, 1214-1223.	6.1	391
50	Pattern recognition methods and applications in biomedical magnetic resonance. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2001, 39, 1-40.	3.9	384
51	Contemporary issues in toxicology the role of metabonomics in toxicology and its evaluation by the COMET project. <i>Toxicology and Applied Pharmacology</i> , 2003, 187, 137-146.	1.3	374
52	High-resolution magic-angle-spinning NMR spectroscopy for metabolic profiling of intact tissues. <i>Nature Protocols</i> , 2010, 5, 1019-1032.	5.5	355
53	The challenges of modeling mammalian biocomplexity. <i>Nature Biotechnology</i> , 2004, 22, 1268-1274.	9.4	351
54	Quantifying Diet-Induced Metabolic Changes of the Human Gut Microbiome. <i>Cell Metabolism</i> , 2015, 22, 320-331.	7.2	345

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55	Colonization-Induced Host-Gut Microbial Metabolic Interaction. <i>MBio</i> , 2011, 2, e00271-10.	1.8	342
56	Susceptibility of Human Metabolic Phenotypes to Dietary Modulation. <i>Journal of Proteome Research</i> , 2006, 5, 2780-2788.	1.8	337
57	Assessment of Analytical Reproducibility of <sup>1</sup> H NMR Spectroscopy Based Metabonomics for Large-Scale Epidemiological Research: The INTERMAP Study. <i>Analytical Chemistry</i> , 2006, 78, 2199-2208.	3.2	332
58	Statistical Heterospectroscopy, an Approach to the Integrated Analysis of NMR and UPLC-MS Data Sets: Application in Metabonomic Toxicology Studies. <i>Analytical Chemistry</i> , 2006, 78, 363-371.	3.2	330
59	Global systems biology, personalized medicine and molecular epidemiology. <i>Molecular Systems Biology</i> , 2006, 2, 52.	3.2	328
60	Microbiome-host systems interactions: protective effects of propionate upon the blood-brain barrier. <i>Microbiome</i> , 2018, 6, 55.	4.9	324
61	Cervical intraepithelial neoplasia disease progression is associated with increased vaginal microbiome diversity. <i>Scientific Reports</i> , 2015, 5, 16865.	1.6	320
62	NMR Spectroscopy of Biofluids. <i>Annual Reports on NMR Spectroscopy</i> , 1999, 38, 1-88.	0.7	314
63	Dietary Modulation of Gut Microbiota Contributes to Alleviation of Both Genetic and Simple Obesity in Children. <i>EBioMedicine</i> , 2015, 2, 968-984.	2.7	306
64	Systemic multicompartamental effects of the gut microbiome on mouse metabolic phenotypes. <i>Molecular Systems Biology</i> , 2008, 4, 219.	3.2	304
65	Recursive Segment-Wise Peak Alignment of Biological <sup>1</sup> H NMR Spectra for Improved Metabolic Biomarker Recovery. <i>Analytical Chemistry</i> , 2009, 81, 56-66.	3.2	303
66	An NMR-based metabonomic approach to investigate the biochemical consequences of genetic strain differences: application to the C57BL10J and <i>Alpk:ApfCD</i> mouse. <i>FEBS Letters</i> , 2000, 484, 169-174.	1.3	291
67	NMR-Based Metabolic Profiling and Metabonomic Approaches to Problems in Molecular Toxicology. <i>Chemical Research in Toxicology</i> , 2008, 21, 9-27.	1.7	289
68	Use of high-resolution proton nuclear magnetic resonance spectroscopy for rapid multi-component analysis of urine. <i>Clinical Chemistry</i> , 1984, 30, 426-432.	1.5	286
69	Proton-nuclear-magnetic-resonance studies of serum, plasma and urine from fasting normal and diabetic subjects. <i>Biochemical Journal</i> , 1984, 217, 365-375.	1.7	283
70	Chemometric Models for Toxicity Classification Based on NMR Spectra of Biofluids. <i>Chemical Research in Toxicology</i> , 2000, 13, 471-478.	1.7	277
71	The Consortium for Metabonomic Toxicology (COMET): aims, activities and achievements. <i>Pharmacogenomics</i> , 2005, 6, 691-699.	0.6	277
72	Urinary Metabolic Phenotyping Differentiates Children with Autism from Their Unaffected Siblings and Age-Matched Controls. <i>Journal of Proteome Research</i> , 2010, 9, 2996-3004.	1.8	277

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73	Nuclear Magnetic Resonance Spectroscopic and Principal Components Analysis Investigations into Biochemical Effects of Three Model Hepatotoxins. <i>Chemical Research in Toxicology</i> , 1998, 11, 260-272.	1.7	276
74	The gut microbiota influences skeletal muscle mass and function in mice. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	271
75	Spectroscopic and Statistical Techniques for Information Recovery in Metabonomics and Metabolomics. <i>Annual Review of Analytical Chemistry</i> , 2008, 1, 45-69.	2.8	270
76	The Footprints of Gut Microbialâ€™Mammalian Co-Metabolism. <i>Journal of Proteome Research</i> , 2011, 10, 5512-5522.	1.8	268
77	The interaction between vaginal microbiota, cervical length, and vaginal progesterone treatment for preterm birth risk. <i>Microbiome</i> , 2017, 5, 6.	4.9	266
78	Metabonomic investigations in mice infected with <i>Schistosoma mansoni</i> : An approach for biomarker identification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12676-12681.	3.3	265
79	Hippurate: The Natural History of a Mammalianâ€™Microbial Cometabolite. <i>Journal of Proteome Research</i> , 2013, 12, 1527-1546.	1.8	263
80	Analytical Reproducibility in <sup>1</sup> H NMR-Based Metabonomic Urinalysis. <i>Chemical Research in Toxicology</i> , 2002, 15, 1380-1386.	1.7	261
81	Summary recommendations for standardization and reporting of metabolic analyses. <i>Nature Biotechnology</i> , 2005, 23, 833-838.	9.4	261
82	Metabonomics in pharmaceutical R&D. <i>FEBS Journal</i> , 2007, 274, 1140-1151.	2.2	258
83	Metabonomics Techniques and Applications to Pharmaceutical Research & Development. <i>Pharmaceutical Research</i> , 2006, 23, 1075-1088.	1.7	256
84	An Integrated Metabonomic Investigation of Acetaminophen Toxicity in the Mouse Using NMR Spectroscopy. <i>Chemical Research in Toxicology</i> , 2003, 16, 295-303.	1.7	245
85	A Metabonomic Strategy for the Detection of the Metabolic Effects of Chamomile ( <i>Matricaria</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 1 2.45 243		
86	Metabolic Profiling of CSF: Evidence That Early Intervention May Impact on Disease Progression and Outcome in Schizophrenia. <i>PLoS Medicine</i> , 2006, 3, e327.	3.9	242
87	Optimized Preprocessing of Ultra-Performance Liquid Chromatography/Mass Spectrometry Urinary Metabolic Profiles for Improved Information Recovery. <i>Analytical Chemistry</i> , 2011, 83, 5864-5872.	3.2	240
88	High resolution <sup>1</sup> H n.m.r. studies of vertebrate blood and plasma. <i>Biochemical Journal</i> , 1983, 211, 605-615.	1.7	235
89	Objective Set of Criteria for Optimization of Sample Preparation Procedures for Ultra-High Throughput Untargeted Blood Plasma Lipid Profiling by Ultra Performance Liquid Chromatographyâ€™Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 5766-5774.	3.2	234
90	Metabolic profiling strategy for discovery of nutritional biomarkers: proline betaine as a marker of citrus consumption. <i>American Journal of Clinical Nutrition</i> , 2010, 92, 436-443.	2.2	231

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91	Longitudinal analysis reveals that delayed bystander CD8+ T cell activation and early immune pathology distinguish severe COVID-19 from mild disease. <i>Immunity</i> , 2021, 54, 1257-1275.e8.	6.6	230
92	Top-Down Systems Biology Modeling of Host Metabotype~Microbiome Associations in Obese Rodents. <i>Journal of Proteome Research</i> , 2009, 8, 2361-2375.	1.8	228
93	Impact of Analytical Bias in Metabonomic Studies of Human Blood Serum and Plasma. <i>Analytical Chemistry</i> , 2006, 78, 4307-4318.	3.2	226
94	Global urinary metabolic profiling procedures using gas chromatography~mass spectrometry. <i>Nature Protocols</i> , 2011, 6, 1483-1499.	5.5	225
95	Automatic Data Reduction and Pattern Recognition Methods for Analysis of 1H Nuclear Magnetic Resonance Spectra of Human Urine from Normal and Pathological States. <i>Analytical Biochemistry</i> , 1994, 220, 284-296.	1.1	212
96	Use of relaxation-edited one-dimensional and two dimensional nuclear magnetic resonance spectroscopy to improve detection of small metabolites in blood plasma. <i>Analytical Biochemistry</i> , 2004, 325, 260-272.	1.1	212
97	NMR Spectroscopic-Based Metabonomic Studies of Urinary Metabolite Variation in Acclimatizing Germ-Free Rats. <i>Chemical Research in Toxicology</i> , 2003, 16, 1395-1404.	1.7	211
98	Therapeutic Modulation of Microbiota-Host Metabolic Interactions. <i>Science Translational Medicine</i> , 2012, 4, 137rv6.	5.8	211
99	NMR and Pattern Recognition Studies on the Time-Related Metabolic Effects of Î±-Naphthylisothiocyanate on Liver, Urine, and Plasma in the Rat:~ An Integrative Metabonomic Approach. <i>Chemical Research in Toxicology</i> , 2001, 14, 1401-1412.	1.7	204
100	Metabonomic and Microbiological Analysis of the Dynamic Effect of Vancomycin-Induced Gut Microbiota Modification in the Mouse. <i>Journal of Proteome Research</i> , 2008, 7, 3718-3728.	1.8	202
101	Vaginal dysbiosis increases risk of preterm fetal membrane rupture, neonatal sepsis and is exacerbated by erythromycin. <i>BMC Medicine</i> , 2018, 16, 9.	2.3	202
102	Cryogenic Probe 13C NMR Spectroscopy of Urine for Metabonomic Studies. <i>Analytical Chemistry</i> , 2002, 74, 4588-4593.	3.2	200
103	Development of a model for classification of toxin-induced lesions using 1H NMR spectroscopy of urine combined with pattern recognition. , 1998, 11, 235-244.		198
104	Different Levels of Polybrominated Diphenyl Ethers (PBDEs) and Chlorinated Compounds in Breast Milk from Two U.K. Regions. <i>Environmental Health Perspectives</i> , 2004, 112, 1085-1091.	2.8	198
105	Application of biofluid 1H nuclear magnetic resonance-based metabonomic techniques for the analysis of the biochemical effects of dietary isoflavones on human plasma profile. <i>Analytical Biochemistry</i> , 2003, 323, 197-204.	1.1	197
106	Objective assessment of dietary patterns by use of metabolic phenotyping: a randomised, controlled, crossover trial. <i>Lancet Diabetes and Endocrinology</i> , 2017, 5, 184-195.	5.5	194
107	Peer Reviewed: So What~s the Deal with Metabonomics?. <i>Analytical Chemistry</i> , 2003, 75, 384 A-391 A.	3.2	189
108	Metabonomic Characterization of Genetic Variations in Toxicological and Metabolic Responses Using Probabilistic Neural Networks. <i>Chemical Research in Toxicology</i> , 2001, 14, 182-191.	1.7	183



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109	Assignment of resonances for acute-phase™ glycoproteins in high resolution proton NMR spectra of human blood plasma. <i>FEBS Letters</i> , 1987, 215, 311-315.	1.3	182
110	Investigations into Biochemical Changes Due to Diurnal Variation and Estrus Cycle in Female Rats Using High-Resolution 1H NMR Spectroscopy of Urine and Pattern Recognition. <i>Analytical Biochemistry</i> , 2001, 295, 194-202.	1.1	182
111	Metabonomic Investigations into Hydrazine Toxicity in the Rat. <i>Chemical Research in Toxicology</i> , 2001, 14, 975-987.	1.7	179
112	Application of chemometrics to 1H NMR spectroscopic data to investigate a relationship between human serum metabolic profiles and hypertension. <i>Analyst</i> , The, 2003, 128, 32-36.	1.7	179
113	Urinary metabolic signatures of human adiposity. <i>Science Translational Medicine</i> , 2015, 7, 285ra62.	5.8	178
114	Directly coupled HPLC-NMR and HPLC-NMR-MS in pharmaceutical research and development. <i>Biomedical Applications</i> , 2000, 748, 233-258.	1.7	177
115	High-resolution magic angle spinning 1H NMR spectroscopic studies on intact rat renal cortex and medulla. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 1108-1118.	1.9	172
116	Species Variation in the Fecal Metabolome Gives Insight into Differential Gastrointestinal Function. <i>Journal of Proteome Research</i> , 2008, 7, 352-360.	1.8	170
117	Combined HPLC, NMR Spectroscopy, and Ion-Trap Mass Spectrometry with Application to the Detection and Characterization of Xenobiotic and Endogenous Metabolites in Human Urine. <i>Analytical Chemistry</i> , 1996, 68, 4431-4435.	3.2	169
118	Physiological variation in metabolic phenotyping and functional genomic studies: use of orthogonal signal correction and PLS-DA. <i>FEBS Letters</i> , 2002, 530, 191-196.	1.3	169
119	Bile Acid Profiling and Quantification in Biofluids Using Ultra-Performance Liquid Chromatography Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 9662-9670.	3.2	166
120	Quantitative Lipoprotein Subclass and Low Molecular Weight Metabolite Analysis in Human Serum and Plasma by 1H NMR Spectroscopy in a Multilaboratory Trial. <i>Analytical Chemistry</i> , 2018, 90, 11962-11971.	3.2	165
121	High-resolution 1H and 1H-13C magic angle spinning NMR spectroscopy of rat liver. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 201-207.	1.9	164
122	Improved analysis of multivariate data by variable stability scaling: application to NMR-based metabolic profiling. <i>Analytica Chimica Acta</i> , 2003, 490, 265-276.	2.6	164
123	Prediction and Classification of Drug Toxicity Using Probabilistic Modeling of Temporal Metabolic Data: The Consortium on Metabonomic Toxicology Screening Approach. <i>Journal of Proteome Research</i> , 2007, 6, 4407-4422.	1.8	164
124	Integrated application of transcriptomics and metabonomics yields new insight into the toxicity due to paracetamol in the mouse. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 35, 93-105.	1.4	163
125	Application of chemometrics to the 1H NMR spectra of apple juices: discrimination between apple varieties. <i>Food Chemistry</i> , 1998, 61, 207-213.	4.2	162
126	Investigations into the biochemical effects of region-specific nephrotoxins. <i>Molecular Pharmacology</i> , 1989, 35, 242-50.	1.0	162



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127	Metabonomics and its role in drug development and disease diagnosis. <i>Expert Review of Molecular Diagnostics</i> , 2004, 4, 189-199.	1.5	161
128	Untargeted UPLC-MS Profiling Pipeline to Expand Tissue Metabolome Coverage: Application to Cardiovascular Disease. <i>Analytical Chemistry</i> , 2015, 87, 4184-4193.	3.2	161
129	Optimization and Evaluation of Metabolite Extraction Protocols for Untargeted Metabolic Profiling of Liver Samples by UPLC-MS. <i>Analytical Chemistry</i> , 2010, 82, 7779-7786.	3.2	160
130	Human metabolic profiles are stably controlled by genetic and environmental variation. <i>Molecular Systems Biology</i> , 2011, 7, 525.	3.2	158
131	Novel Application of Reversed-Phase UPLC- <i>oa</i> TOF-MS for Lipid Analysis in Complex Biological Mixtures: A New Tool for Lipidomics. <i>Journal of Proteome Research</i> , 2007, 6, 552-558.	1.8	156
132	Human Metabolic Phenotypes Link Directly to Specific Dietary Preferences in Healthy Individuals. <i>Journal of Proteome Research</i> , 2007, 6, 4469-4477.	1.8	156
133	Metabolic Phenotyping and Systems Biology Approaches to Understanding Metabolic Syndrome and Fatty Liver Disease. <i>Gastroenterology</i> , 2014, 146, 46-62.	0.6	153
134	750 MHz <sup>1</sup> H NMR spectroscopy characterisation of the complex metabolic pattern of urine from patients with inborn errors of metabolism: 2-hydroxyglutaric aciduria and maple syrup urine disease. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1997, 15, 1647-1659.	1.4	152
135	Panorganismal Gut Microbiome Host Metabolic Crosstalk. <i>Journal of Proteome Research</i> , 2009, 8, 2090-2105.	1.8	151
136	Biofluid <sup>1</sup> H NMR-based metabonomic techniques in nutrition research – metabolic effects of dietary isoflavones in humans. <i>Journal of Nutritional Biochemistry</i> , 2005, 16, 236-244.	1.9	149
137	Use of Metabonomics to Identify Impaired Fatty Acid Metabolism as the Mechanism of a Drug-Induced Toxicity. <i>Chemical Research in Toxicology</i> , 2004, 17, 165-173.	1.7	148
138	Statistically Integrated Metabonomic Proteomic Studies on a Human Prostate Cancer Xenograft Model in Mice. <i>Journal of Proteome Research</i> , 2006, 5, 2642-2655.	1.8	146
139	High-Resolution Diffusion and Relaxation Edited One- and Two-Dimensional <sup>1</sup> H NMR Spectroscopy of Biological Fluids. <i>Analytical Chemistry</i> , 1996, 68, 3370-3376.	3.2	145
140	Spectral editing and pattern recognition methods applied to high-resolution magic-angle spinning <sup>1</sup> H nuclear magnetic resonance spectroscopy of liver tissues. <i>Analytical Biochemistry</i> , 2003, 323, 26-32.	1.1	144
141	The identification of novel biomarkers of renal toxicity using automatic data reduction techniques and PCA of proton NMR spectra of urine. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1998, 44, 245-255.	1.8	143
142	NMR and pattern recognition studies on liver extracts and intact livers from rats treated with $\pm$ -naphthylisothiocyanate. <i>Biochemical Pharmacology</i> , 2002, 64, 67-77.	2.0	143
143	Geometric Trajectory Analysis of Metabolic Responses To Toxicity Can Define Treatment Specific Profiles. <i>Chemical Research in Toxicology</i> , 2004, 17, 579-587.	1.7	143
144	Systems Toxicology: Integrated Genomic, Proteomic and Metabonomic Analysis of Methapyrilene Induced Hepatotoxicity in the Rat. <i>Journal of Proteome Research</i> , 2006, 5, 1586-1601.	1.8	143

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145	NMR-based metabonomic toxicity classification: hierarchical cluster analysis and k-nearest-neighbour approaches. <i>Analytica Chimica Acta</i> , 2003, 490, 3-15.	2.6	142
146	Integrative Modeling of Quantitative Plasma Lipoprotein, Metabolic, and Amino Acid Data Reveals a Multiorgan Pathological Signature of SARS-CoV-2 Infection. <i>Journal of Proteome Research</i> , 2020, 19, 4442-4454.	1.8	142
147	Metabonomic Deconvolution Of Embedded Toxicity: Application To Thioacetamide Hepato- and Nephrotoxicity. <i>Chemical Research in Toxicology</i> , 2005, 18, 639-654.	1.7	141
148	Metabonomic Investigations of Aging and Caloric Restriction in a Life-Long Dog Study. <i>Journal of Proteome Research</i> , 2007, 6, 1846-1854.	1.8	141
149	Metabonomics in Ulcerative Colitis: Diagnostics, Biomarker Identification, And Insight into the Pathophysiology. <i>Journal of Proteome Research</i> , 2010, 9, 954-962.	1.8	141
150	Metabolic Profiling of Genetic Disorders: A Multitissue <sup>1</sup> H Nuclear Magnetic Resonance Spectroscopic and Pattern Recognition Study into Dystrophic Tissue. <i>Analytical Biochemistry</i> , 2001, 293, 16-21.	1.1	140
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