

Elaine Holmes

List of Publications by Year in descending order

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536
papers

66,780
citations

699

121
h-index

959

238
g-index

561
all docs

561
docs citations

561
times ranked

51691
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	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
6	Chemometrics in Metabonomics. <i>Journal of Proteome Research</i> , 2007, 6, 469-479.	1.8	1,124
7	Gut Microbiomes of Malawian Twin Pairs Discordant for Kwashiorkor. <i>Science</i> , 2013, 339, 548-554.	6.0	1,012
8	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
9	Human metabolic phenotype diversity and its association with diet and blood pressure. <i>Nature</i> , 2008, 453, 396-400.	13.7	966
10	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
11	Rapid and noninvasive diagnosis of the presence and severity of coronary heart disease using ¹ H-NMR-based metabonomics. <i>Nature Medicine</i> , 2002, 8, 1439-1445.	15.2	941
12	Global metabolic profiling procedures for urine using UPLC-MS. <i>Nature Protocols</i> , 2010, 5, 1005-1018.	5.5	867
13	Gut microorganisms, mammalian metabolism and personalized health care. <i>Nature Reviews Microbiology</i> , 2005, 3, 431-438.	13.6	861
14	Statistical Total Correlation Spectroscopy: An Exploratory Approach for Latent Biomarker Identification from Metabolic ¹ H NMR Data Sets. <i>Analytical Chemistry</i> , 2005, 77, 1282-1289.	3.2	833
15	Global metabolic profiling of animal and human tissues via UPLC-MS. <i>Nature Protocols</i> , 2013, 8, 17-32.	5.5	774
16	Metabolic Phenotyping in Health and Disease. <i>Cell</i> , 2008, 134, 714-717.	13.5	711
17	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
18	Evaluation of the Orthogonal Projection on Latent Structure Model Limitations Caused by Chemical Shift Variability and Improved Visualization of Biomarker Changes in ¹ H NMR Spectroscopic Metabonomic Studies. <i>Analytical Chemistry</i> , 2005, 77, 517-526.	3.2	553

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19	Age-related immune response heterogeneity to SARS-CoV-2 vaccine BNT162b2. <i>Nature</i> , 2021, 596, 417-422.	13.7	549
20	Rapid and Noninvasive Metabonomic Characterization of Inflammatory Bowel Disease. <i>Journal of Proteome Research</i> , 2007, 6, 546-551.	1.8	539
21	Molecular phenomics and metagenomics of hepatic steatosis in non-diabetic obese women. <i>Nature Medicine</i> , 2018, 24, 1070-1080.	15.2	465
22	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
23	Understanding the role of gut microbiomeâ€“host metabolic signal disruption in health and disease. <i>Trends in Microbiology</i> , 2011, 19, 349-359.	3.5	452
24	Metabolic phenotyping in clinical and surgical environments. <i>Nature</i> , 2012, 491, 384-392.	13.7	450
25	Scaling and Normalization Effects in NMR Spectroscopic Metabonomic Data Sets. <i>Analytical Chemistry</i> , 2006, 78, 2262-2267.	3.2	438
26	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
27	Metabonomics technologies and their applications in physiological monitoring, drug safety assessment and disease diagnosis. <i>Biomarkers</i> , 2004, 9, 1-31.	0.9	425
28	NMR-based metabonomic approaches for evaluating physiological influences on biofluid composition. <i>NMR in Biomedicine</i> , 2005, 18, 143-162.	1.6	425
29	A topâ€“down systems biology view of microbiomeâ€“mammalian metabolic interactions in a mouse model. <i>Molecular Systems Biology</i> , 2007, 3, 112.	3.2	420
30	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
31	The vaginal microbiome during pregnancy and the postpartum period in a European population. <i>Scientific Reports</i> , 2015, 5, 8988.	1.6	415
32	Metabonomics: Metabolic processes studied by NMR spectroscopy of biofluids. <i>Concepts in Magnetic Resonance</i> , 2000, 12, 289-320.	1.3	401
33	Probiotic modulation of symbiotic gut microbialâ€“host metabolic interactions in a humanized microbiome mouse model. <i>Molecular Systems Biology</i> , 2008, 4, 157.	3.2	392
34	Metabolic surgery profoundly influences gut microbial-host metabolic cross-talk. <i>Gut</i> , 2011, 60, 1214-1223.	6.1	391
35	Pattern recognition methods and applications in biomedical magnetic resonance. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2001, 39, 1-40.	3.9	384
36	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

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37	High-resolution magic-angle-spinning NMR spectroscopy for metabolic profiling of intact tissues. <i>Nature Protocols</i> , 2010, 5, 1019-1032.	5.5	355
38	The challenges of modeling mammalian biocomplexity. <i>Nature Biotechnology</i> , 2004, 22, 1268-1274.	9.4	351
39	Colonization-Induced Host-Gut Microbial Metabolic Interaction. <i>MBio</i> , 2011, 2, e00271-10.	1.8	342
40	Susceptibility of Human Metabolic Phenotypes to Dietary Modulation. <i>Journal of Proteome Research</i> , 2006, 5, 2780-2788.	1.8	337
41	The microbiome of professional athletes differs from that of more sedentary subjects in composition and particularly at the functional metabolic level. <i>Gut</i> , 2018, 67, gutjnl-2016-313627.	6.1	333
42	Assessment of Analytical Reproducibility of ¹ H NMR Spectroscopy Based Metabonomics for Large-Scale Epidemiological Research: The INTERMAP Study. <i>Analytical Chemistry</i> , 2006, 78, 2199-2208.	3.2	332
43	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
44	Cervical intraepithelial neoplasia disease progression is associated with increased vaginal microbiome diversity. <i>Scientific Reports</i> , 2015, 5, 16865.	1.6	320
45	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
46	Systemic multicompartamental effects of the gut microbiome on mouse metabolic phenotypes. <i>Molecular Systems Biology</i> , 2008, 4, 219.	3.2	304
47	Recursive Segment-Wise Peak Alignment of Biological ¹ H NMR Spectra for Improved Metabolic Biomarker Recovery. <i>Analytical Chemistry</i> , 2009, 81, 56-66.	3.2	303
48	An NMR-based metabonomic approach to investigate the biochemical consequences of genetic strain differences: application to the C57BL10J and Alpk:ApfCD mouse. <i>FEBS Letters</i> , 2000, 484, 169-174.	1.3	291
49	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
50	Chemometric Models for Toxicity Classification Based on NMR Spectra of Biofluids. <i>Chemical Research in Toxicology</i> , 2000, 13, 471-478.	1.7	277
51	The Consortium for Metabonomic Toxicology (COMET): aims, activities and achievements. <i>Pharmacogenomics</i> , 2005, 6, 691-699.	0.6	277
52	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
53	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
54	The gut microbiota influences skeletal muscle mass and function in mice. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	271

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55	The interaction between vaginal microbiota, cervical length, and vaginal progesterone treatment for preterm birth risk. <i>Microbiome</i> , 2017, 5, 6.	4.9	266
56	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
57	Hippurate: The Natural History of a Mammalian Microbial Cometabolite. <i>Journal of Proteome Research</i> , 2013, 12, 1527-1546.	1.8	263
58	Analytical Reproducibility in ¹ H NMR-Based Metabonomic Urinalysis. <i>Chemical Research in Toxicology</i> , 2002, 15, 1380-1386.	1.7	261
59	Summary recommendations for standardization and reporting of metabolic analyses. <i>Nature Biotechnology</i> , 2005, 23, 833-838.	9.4	261
60	Metabonomics in pharmaceutical R&D. <i>FEBS Journal</i> , 2007, 274, 1140-1151.	2.2	258
61	Metabonomics Techniques and Applications to Pharmaceutical Research & Development. <i>Pharmaceutical Research</i> , 2006, 23, 1075-1088.	1.7	256
62	Using chemometrics for navigating in the large data sets of genomics, proteomics, and metabonomics (gpm). <i>Analytical and Bioanalytical Chemistry</i> , 2004, 380, 419-429.	1.9	245
63	A Metabonomic Strategy for the Detection of the Metabolic Effects of Chamomile (<i>Matricaria</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 1	2.48	243
64	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
65	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
66	Dietary supplementation with inulin-propionate ester or inulin improves insulin sensitivity in adults with overweight and obesity with distinct effects on the gut microbiota, plasma metabolome and systemic inflammatory responses: a randomised cross-over trial. <i>Gut</i> , 2019, 68, 1430-1438.	6.1	235
67	Objective Set of Criteria for Optimization of Sample Preparation Procedures for Ultra-High Throughput Untargeted Blood Plasma Lipid Profiling by Ultra Performance Liquid Chromatography-Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 5766-5774.	3.2	234
68	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
69	Top-Down Systems Biology Modeling of Host Metatype Microbiome Associations in Obese Rodents. <i>Journal of Proteome Research</i> , 2009, 8, 2361-2375.	1.8	228
70	Impact of Analytical Bias in Metabonomic Studies of Human Blood Serum and Plasma. <i>Analytical Chemistry</i> , 2006, 78, 4307-4318.	3.2	226
71	Chemometric contributions to the evolution of metabonomics: mathematical solutions to characterising and interpreting complex biological NMR spectra. <i>Analyst</i> , The, 2002, 127, 1549-1557.	1.7	217
72	Culture-independent analysis of the gut microbiota in colorectal cancer and polyposis. <i>Environmental Microbiology</i> , 2008, 10, 789-798.	1.8	216

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73	Automatic Data Reduction and Pattern Recognition Methods for Analysis of ¹ H Nuclear Magnetic Resonance Spectra of Human Urine from Normal and Pathological States. <i>Analytical Biochemistry</i> , 1994, 220, 284-296.	1.1	212
74	Therapeutic Modulation of Microbiota-Host Metabolic Interactions. <i>Science Translational Medicine</i> , 2012, 4, 137rv6.	5.8	211
75	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
76	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
77	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
78	Development of a model for classification of toxin-induced lesions using ¹ H NMR spectroscopy of urine combined with pattern recognition. , 1998, 11, 235-244.		198
79	Application of biofluid ¹ H 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
80	Objective assessment of dietary patterns by use of metabolic phenotyping: a randomised, controlled, crossover trial. <i>Lancet Diabetes and Endocrinology</i> , the, 2017, 5, 184-195.	5.5	194
81	Peer Reviewed: So What's the Deal with Metabonomics?. <i>Analytical Chemistry</i> , 2003, 75, 384 A-391 A.	3.2	189
82	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
83	Investigations into Biochemical Changes Due to Diurnal Variation and Estrus Cycle in Female Rats Using High-Resolution ¹ H NMR Spectroscopy of Urine and Pattern Recognition. <i>Analytical Biochemistry</i> , 2001, 295, 194-202.	1.1	182
84	Microbial bile salt hydrolases mediate the efficacy of faecal microbiota transplant in the treatment of recurrent <i>Clostridioides difficile</i> infection. <i>Gut</i> , 2019, 68, 1791-1800.	6.1	182
85	Multiple parasite infections and their relationship to self-reported morbidity in a community of rural Cote d'Ivoire. <i>International Journal of Epidemiology</i> , 2004, 33, 1092-1102.	0.9	180
86	Metabonomic Investigations into Hydrazine Toxicity in the Rat. <i>Chemical Research in Toxicology</i> , 2001, 14, 975-987.	1.7	179
87	Application of chemometrics to ¹ H 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
88	Urinary metabolic signatures of human adiposity. <i>Science Translational Medicine</i> , 2015, 7, 285ra62.	5.8	178
89	High-resolution magic angle spinning ¹ H NMR spectroscopic studies on intact rat renal cortex and medulla. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 1108-1118.	1.9	172
90	Metabonomic Applications in Toxicity Screening and Disease Diagnosis. <i>Current Topics in Medicinal Chemistry</i> , 2002, 2, 35-51.	1.0	172

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91	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
92	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
93	Quantitative Lipoprotein Subclass and Low Molecular Weight Metabolite Analysis in Human Serum and Plasma by ¹ H NMR Spectroscopy in a Multilaboratory Trial. <i>Analytical Chemistry</i> , 2018, 90, 11962-11971.	3.2	165
94	High-resolution ¹ H and ¹ H- ¹³ C magic angle spinning NMR spectroscopy of rat liver. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 201-207.	1.9	164
95	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
96	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
97	Metabonomic analysis identifies molecular changes associated with the pathophysiology and drug treatment of bipolar disorder. <i>Molecular Psychiatry</i> , 2009, 14, 269-279.	4.1	163
98	Application of chemometrics to the ¹ H NMR spectra of apple juices: discrimination between apple varieties. <i>Food Chemistry</i> , 1998, 61, 207-213.	4.2	162
99	Metabonomics and its role in drug development and disease diagnosis. <i>Expert Review of Molecular Diagnostics</i> , 2004, 4, 189-199.	1.5	161
100	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
101	Human metabolic profiles are stably controlled by genetic and environmental variation. <i>Molecular Systems Biology</i> , 2011, 7, 525.	3.2	158
102	750 MHz ¹ 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
103	Panorganismal Gut Microbiome-Host Metabolic Crosstalk. <i>Journal of Proteome Research</i> , 2009, 8, 2090-2105.	1.8	151
104	Biofluid ¹ 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
105	A Prospective Metagenomic and Metabolomic Analysis of the Impact of Exercise and/or Whey Protein Supplementation on the Gut Microbiome of Sedentary Adults. <i>MSystems</i> , 2018, 3, .	1.7	148
106	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
107	Increased colonic propionate reduces anticipatory reward responses in the human striatum to high-energy foods. <i>American Journal of Clinical Nutrition</i> , 2016, 104, 5-14.	2.2	145
108	Spectral editing and pattern recognition methods applied to high-resolution magic-angle spinning ¹ H nuclear magnetic resonance spectroscopy of liver tissues. <i>Analytical Biochemistry</i> , 2003, 323, 26-32.	1.1	144

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109	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
110	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
111	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
112	Systems Toxicology: An 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
113	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
114	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
115	Metabonomic Deconvolution Of Embedded Toxicity: An Application To Thioacetamide Hepato- and Nephrotoxicity. <i>Chemical Research in Toxicology</i> , 2005, 18, 639-654.	1.7	141
116	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
117	The evolution of partial least squares models and related chemometric approaches in metabonomics and metabolic phenotyping. <i>Journal of Chemometrics</i> , 2010, 24, 636-649.	0.7	140
118	Relationship between vaginal microbial dysbiosis, inflammation, and pregnancy outcomes in cervical cerclage. <i>Science Translational Medicine</i> , 2016, 8, 350ra102.	5.8	137
119	HILIC-UPLC-MS for Exploratory Urinary Metabolic Profiling in Toxicological Studies. <i>Analytical Chemistry</i> , 2011, 83, 382-390.	3.2	135
120	Metabolic phenotype of skeletal muscle in early critical illness. <i>Thorax</i> , 2018, 73, 926-935.	2.7	135
121	Metabolic surgery and cancer. <i>Cancer</i> , 2011, 117, 1788-1799.	2.0	134
122	Optimized Sample Handling Strategy for Metabolic Profiling of Human Feces. <i>Analytical Chemistry</i> , 2016, 88, 4661-4668.	3.2	134
123	A Genome-Wide Metabolic QTL Analysis in Europeans Implicates Two Loci Shaped by Recent Positive Selection. <i>PLoS Genetics</i> , 2011, 7, e1002270.	1.5	132
124	Inhibiting Growth of <i>Clostridioides difficile</i> by Restoring Valerate, Produced by the Intestinal Microbiota. <i>Gastroenterology</i> , 2018, 155, 1495-1507.e15.	0.6	127
125	Global metabolic responses of mice to <i>Trypanosoma brucei brucei</i> infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6127-6132.	3.3	126
126	Comparative metabonomics of differential hydrazine toxicity in the rat and mouse. <i>Toxicology and Applied Pharmacology</i> , 2005, 204, 135-151.	1.3	125

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127	Opening up the "Black Box": Metabolic phenotyping and metabolome-wide association studies in epidemiology. <i>Journal of Clinical Epidemiology</i> , 2010, 63, 970-979.	2.4	125
128	Metabolic Profiling and the Metabolome-Wide Association Study: Significance Level For Biomarker Identification. <i>Journal of Proteome Research</i> , 2010, 9, 4620-4627.	1.8	123
129	Robust Data Processing and Normalization Strategy for MALDI Mass Spectrometric Imaging. <i>Analytical Chemistry</i> , 2012, 84, 1310-1319.	3.2	123
130	The human gut microbiome: Implications for future health care. <i>Current Gastroenterology Reports</i> , 2008, 10, 396-403.	1.1	122
131	Neurogenesis and longevity signaling in young germ-free mice transplanted with the gut microbiota of old mice. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	122
132	High-Resolution Magic Angle Spinning ¹ H NMR Spectroscopy of Intact Liver and Kidney: Optimization of Sample Preparation Procedures and Biochemical Stability of Tissue during Spectral Acquisition. <i>Analytical Biochemistry</i> , 2000, 282, 16-23.	1.1	121
133	Chemo-informatic strategy for imaging mass spectrometry-based hyperspectral profiling of lipid signatures in colorectal cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1216-1221.	3.3	120
134	Metabolomic analysis of the consequences of cadmium exposure in <i>Silene cucubalus</i> cell cultures via ¹ H NMR spectroscopy and chemometrics. <i>Phytochemistry</i> , 2003, 62, 851-858.	1.4	119
135	Metabolic Characterization of the R6/2 Transgenic Mouse Model of Huntington's Disease by High-Resolution MAS ¹ H NMR Spectroscopy. <i>Journal of Proteome Research</i> , 2006, 5, 483-492.	1.8	119
136	Toxicological applications of magnetic resonance. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2004, 45, 109-143.	3.9	118
137	Detection of Urinary Drug Metabolite (Xenometabolome) Signatures in Molecular Epidemiology Studies via Statistical Total Correlation (NMR) Spectroscopy. <i>Analytical Chemistry</i> , 2007, 79, 2629-2640.	3.2	118
138	The gut microbiota elicits a profound metabolic reorientation in the mouse jejunal mucosa during conventionalisation. <i>Gut</i> , 2013, 62, 1306-1314.	6.1	118
139	Deep learning and 3D-DESI imaging reveal the hidden metabolic heterogeneity of cancer. <i>Chemical Science</i> , 2017, 8, 3500-3511.	3.7	117
140	Metabolome-Wide Association Study Identifies Multiple Biomarkers that Discriminate North and South Chinese Populations at Differing Risks of Cardiovascular Disease: INTERMAP Study. <i>Journal of Proteome Research</i> , 2010, 9, 6647-6654.	1.8	116
141	Extraction, interpretation and validation of information for comparing samples in metabolic LC/MS data sets. <i>Analyst</i> , The, 2005, 130, 701-707.	1.7	114
142	Variation in Antibiotic-Induced Microbial Recolonization Impacts on the Host Metabolic Phenotypes of Rats. <i>Journal of Proteome Research</i> , 2011, 10, 3590-3603.	1.8	114
143	The Assessment of Plant Metabolite Profiles by NMR-Based Methodologies. <i>Planta Medica</i> , 2006, 72, 771-785.	0.7	113
144	High-throughput ¹ H NMR-based metabolic analysis of human serum and urine for large-scale epidemiological studies: validation study. <i>International Journal of Epidemiology</i> , 2008, 37, i31-i40.	0.9	113

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145	Meeting-in-the-middle using metabolic profiling – a strategy for the identification of intermediate biomarkers in cohort studies. <i>Biomarkers</i> , 2011, 16, 83-88.	0.9	113
146	Stability and Robustness of Human Metabolic Phenotypes in Response to Sequential Food Challenges. <i>Journal of Proteome Research</i> , 2012, 11, 643-655.	1.8	113
147	Development and Application of Ultra-Performance Liquid Chromatography-TOF MS for Precision Large Scale Urinary Metabolic Phenotyping. <i>Analytical Chemistry</i> , 2016, 88, 9004-9013.	3.2	113
148	Metabolomic Strategy for the Classification and Quality Control of Phytomedicine: A Case Study of Chamomile Flower (<i>Matricaria recutita</i> L.). <i>Planta Medica</i> , 2004, 70, 250-255.	0.7	112
149	Experimental and Analytical Variation in Human Urine in ¹ H NMR Spectroscopy-Based Metabolic Phenotyping Studies. <i>Analytical Chemistry</i> , 2007, 79, 5204-5211.	3.2	110
150	Metabonomic Studies on the Physiological Effects of Acute and Chronic Psychological Stress in Sprague-Dawley Rats. <i>Journal of Proteome Research</i> , 2007, 6, 2080-2093.	1.8	109
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