

# Gary E Siuzdak

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

203  
papers

26,386  
citations

70  
h-index

161  
g-index

213  
ext. papers

30,673  
ext. citations

10.4  
avg, IF

7.08  
L-index

#	Paper	IF	Citations
203	Metabolite discovery: Biochemistry's scientific driver.. <i>Cell Metabolism</i> , <b>2022</b> , 34, 21-34	24.6	2
202	Proteomics with Enhanced In-Source Fragmentation/Annotation: Applying XCMS-EISA Informatics and Q-MRM High-Sensitivity Quantification. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2021</b> , 32, 2644-2654	3.5	1
201	Single Quadrupole Multiple Fragment Ion Monitoring Quantitative Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 10879-10889	7.8	3
200	Mass spectrometry-based metabolomics: a guide for annotation, quantification and best reporting practices. <i>Nature Methods</i> , <b>2021</b> , 18, 747-756	21.6	83
199	Sulfur Metabolites Play Key System-Level Roles in Modulating Denitrification. <i>MSystems</i> , <b>2021</b> , 6,	7.6	3
198	Deciphering Microbial Metal Toxicity Responses via Random Bar Code Transposon Site Sequencing and Activity-Based Metabolomics. <i>Applied and Environmental Microbiology</i> , <b>2021</b> , 87, e0103721	4.8	1
197	Metabolomics activity screening of T cell-induced colitis reveals anti-inflammatory metabolites. <i>Science Signaling</i> , <b>2021</b> , 14, eabf6584	8.8	2
196	Cognitive analysis of metabolomics data for systems biology. <i>Nature Protocols</i> , <b>2021</b> , 16, 1376-1418	18.8	8
195	Cloud-based archived metabolomics data: A resource for in-source fragmentation/annotation, meta-analysis and systems biology.. <i>Analytical Science Advances</i> , <b>2020</b> , 1, 70-80	1.1	1
194	Enhanced in-Source Fragmentation Annotation Enables Novel Data Independent Acquisition and Autonomous METLIN Molecular Identification. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 6051-6059	7.8	21
193	An Interstellar Synthesis of Glycerol Phosphates. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 899, L3	7.9	2
192	METLIN MS molecular standards database: a broad chemical and biological resource. <i>Nature Methods</i> , <b>2020</b> , 17, 953-954	21.6	43
191	Metabolic adaptation to calorie restriction. <i>Science Signaling</i> , <b>2020</b> , 13,	8.8	7
190	Metabolomics Data Processing Using XCMS. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2104, 11-24	1.4	15
189	METLIN: A Tandem Mass Spectral Library of Standards. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2104, 149-163.	1.4	23
188	A fiber-deprived diet disturbs the fine-scale spatial architecture of the murine colon microbiome. <i>Nature Communications</i> , <b>2019</b> , 10, 4366	17.4	34
187	Autonomous METLIN-Guided In-source Fragment Annotation for Untargeted Metabolomics. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 3246-3253	7.8	52

186	Bulk phase resource ratio alters carbon steel corrosion rates and endogenously produced extracellular electron transfer mediators in a sulfate-reducing biofilm. <i>Biofouling</i> , <b>2019</b> , 35, 669-683	3.3	5
185	Identification of bioactive metabolites using activity metabolomics. <i>Nature Reviews Molecular Cell Biology</i> , <b>2019</b> , 20, 353-367	48.7	258
184	The METLIN small molecule dataset for machine learning-based retention time prediction. <i>Nature Communications</i> , <b>2019</b> , 10, 5811	17.4	50
183	Activation of Kappa Opioid Receptor Regulates the Hypothermic Response to Calorie Restriction and Limits Body Weight Loss. <i>Current Biology</i> , <b>2019</b> , 29, 4291-4299.e4	6.3	13
182	PGRMC2 is an intracellular haem chaperone critical for adipocyte function. <i>Nature</i> , <b>2019</b> , 576, 138-142	50.4	44
181	Metabolic rewiring of the hypertensive kidney. <i>Science Signaling</i> , <b>2019</b> , 12,	8.8	16
180	Palbociclib and Fulvestrant Act in Synergy to Modulate Central Carbon Metabolism in Breast Cancer Cells. <i>Metabolites</i> , <b>2019</b> , 9,	5.6	5
179	Data processing, multi-omic pathway mapping, and metabolite activity analysis using XCMS Online. <i>Nature Protocols</i> , <b>2018</b> , 13, 633-651	18.8	141
178	Spontaneous DNA damage to the nuclear genome promotes senescence, redox imbalance and aging. <i>Redox Biology</i> , <b>2018</b> , 17, 259-273	11.3	60
177	Metabolomics activity screening for identifying metabolites that modulate phenotype. <i>Nature Biotechnology</i> , <b>2018</b> , 36, 316-320	44.5	160
176	METLIN: A Technology Platform for Identifying Knowns and Unknowns. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 3156-3164	7.8	461
175	Metabolite-Induced Protein Expression Guided by Metabolomics and Systems Biology. <i>Cell Metabolism</i> , <b>2018</b> , 27, 270-272	24.6	4
174	Metabolomics Reveals that Dietary Xenoestrogens Alter Cellular Metabolism Induced by Palbociclib/Letrozole Combination Cancer Therapy. <i>Cell Chemical Biology</i> , <b>2018</b> , 25, 291-300.e3	8.2	35
173	Annotation: A Computational Solution for Streamlining Metabolomics Analysis. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 480-489	7.8	93
172	XCMS-MRM and METLIN-MRM: a cloud library and public resource for targeted analysis of small molecules. <i>Nature Methods</i> , <b>2018</b> , 15, 681-684	21.6	69
171	Intestinal bitter taste receptor activation alters hormone secretion and imparts metabolic benefits. <i>Molecular Metabolism</i> , <b>2018</b> , 16, 76-87	8.8	52
170	Autonomous Multimodal Metabolomics Data Integration for Comprehensive Pathway Analysis and Systems Biology. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 8396-8403	7.8	16
169	Metabolomics-based discovery of a metabolite that enhances oligodendrocyte maturation. <i>Nature Chemical Biology</i> , <b>2018</b> , 14, 22-28	11.7	52

168	Reply to Comment on METLIN: A Technology Platform for Identifying Knowns and Unknowns. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 13128-13129	7.8	4
167	Fluorinated Gold Nanoparticles for Nanostructure Imaging Mass Spectrometry. <i>ACS Nano</i> , <b>2018</b> , 12, 6938-6948	11.2	22
166	Metabolizing Data in the Cloud. <i>Trends in Biotechnology</i> , <b>2017</b> , 35, 481-483	15.1	19
165	Systems biology guided by XCMS Online metabolomics. <i>Nature Methods</i> , <b>2017</b> , 14, 461-462	21.6	120
164	Morphology-Driven Control of Metabolite Selectivity Using Nanostructure-Initiator Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 6521-6526	7.8	15
163	Data Streaming for Metabolomics: Accelerating Data Processing and Analysis from Days to Minutes. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1254-1259	7.8	20
162	Exposome-Scale Investigations Guided by Global Metabolomics, Pathway Analysis, and Cognitive Computing. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 11505-11513	7.8	78
161	Metabolomics guided pathway analysis reveals link between cancer metastasis, cholesterol sulfate, and phospholipids. <i>Cancer &amp; Metabolism</i> , <b>2017</b> , 5, 9	5.4	12
160	Evaluation of the safety and immunomodulatory effects of sargramostim in a randomized, double-blind phase 1 clinical Parkinson's disease trial. <i>Npj Parkinson's Disease</i> , <b>2017</b> , 3, 10	9.7	70
159	Staying Alive: Measuring Intact Viable Microbes with Electrospray Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2017</b> , 28, 14-20	3.5	4
158	Smartphone Analytics: Mobilizing the Lab into the Cloud for Omic-Scale Analyses. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 9753-9758	7.8	13
157	Metabolomics: beyond biomarkers and towards mechanisms. <i>Nature Reviews Molecular Cell Biology</i> , <b>2016</b> , 17, 451-9	48.7	967
156	Global metabolomics reveals metabolic dysregulation in ischemic retinopathy. <i>Metabolomics</i> , <b>2016</b> , 12, 15	4.7	54
155	Metabolic drift in the aging brain. <i>Aging</i> , <b>2016</b> , 8, 1000-20	5.6	56
154	Hypoxia-induced metabolic stress in retinal pigment epithelial cells is sufficient to induce photoreceptor degeneration. <i>ELife</i> , <b>2016</b> , 5,	8.9	112
153	Global Isotope Metabolomics Reveals Adaptive Strategies for Nitrogen Assimilation. <i>ACS Chemical Biology</i> , <b>2016</b> , 11, 1677-85	4.9	13
152	Metabolite and Microbiome Interplay in Cancer Immunotherapy. <i>Cancer Research</i> , <b>2016</b> , 76, 6146-6152	10.1	61
151	Quantitative metabolomics of photoreceptor degeneration and the effects of stem cell-derived retinal pigment epithelium transplantation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2016</b> , 374,	3	9

150	Comprehensive bioimaging with fluorinated nanoparticles using breathable liquids. <i>Nature Communications</i> , <b>2015</b> , 6, 5998	17.4	39
149	Metabolism links bacterial biofilms and colon carcinogenesis. <i>Cell Metabolism</i> , <b>2015</b> , 21, 891-7	24.6	201
148	Alterations in Spinal Cord Metabolism during Treatment of Neuropathic Pain. <i>Journal of NeuroImmune Pharmacology</i> , <b>2015</b> , 10, 396-401	6.9	7
147	Thermal Degradation of Small Molecules: A Global Metabolomic Investigation. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 10935-41	7.8	77
146	The Role of Metabolomics in Brain Metabolism Research. <i>Journal of NeuroImmune Pharmacology</i> , <b>2015</b> , 10, 391-5	6.9	31
145	Determining conserved metabolic biomarkers from a million database queries. <i>Bioinformatics</i> , <b>2015</b> , 31, 3721-4	7.2	7
144	Autonomous metabolomics for rapid metabolite identification in global profiling. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 884-91	7.8	119
143	An Interactive Cluster Heat Map to Visualize and Explore Multidimensional Metabolomic Data. <i>Metabolomics</i> , <b>2015</b> , 11, 1029-1034	4.7	23
142	Bioinformatics: the next frontier of metabolomics. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 147-56	7.8	95
141	Acylcarnitines are anticoagulants that inhibit factor Xa and are reduced in venous thrombosis, based on metabolomics data. <i>Blood</i> , <b>2015</b> , 126, 1595-600	2.2	30
140	Arteriovenous Blood Metabolomics: A Readout of Intra-Tissue Metabostasis. <i>Scientific Reports</i> , <b>2015</b> , 5, 12757	4.9	47
139	Discriminating precursors of common fragments for large-scale metabolite profiling by triple quadrupole mass spectrometry. <i>Bioinformatics</i> , <b>2015</b> , 31, 2017-23	7.2	16
138	Nanostructure imaging mass spectrometry: the role of fluorocarbons in metabolite analysis and yoctomole level sensitivity. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1203, 141-9	1.4	8
137	Luciferase does not Alter Metabolism in Cancer Cells. <i>Metabolomics</i> , <b>2014</b> , 10, 354-360	4.7	4
136	Brain region mapping using global metabolomics. <i>Chemistry and Biology</i> , <b>2014</b> , 21, 1575-84		54
135	Interactive XCMS Online: simplifying advanced metabolomic data processing and subsequent statistical analyses. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 6931-9	7.8	254
134	isoMETLIN: a database for isotope-based metabolomics. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 9358-61	7.8	39
133	Metabolomic data streaming for biology-dependent data acquisition. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 524-7	44.5	33

132	Warfarin untargeted metabolomics study identifies novel procoagulant ethanolamide plasma lipids. <i>British Journal of Haematology</i> , <b>2014</b> , 165, 409-12	4.5	7
131	Meta-analysis of global metabolomic data identifies metabolites associated with life-span extension. <i>Metabolomics</i> , <b>2014</b> , 10, 737-743	4.7	23
130	Toward omic scale metabolite profiling: a dual separation-mass spectrometry approach for coverage of lipid and central carbon metabolism. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 6876-84	7.8	204
129	Liquid chromatography quadrupole time-of-flight mass spectrometry characterization of metabolites guided by the METLIN database. <i>Nature Protocols</i> , <b>2013</b> , 8, 451-60	18.8	288
128	Monitoring metabolic responses to chemotherapy in single cells and tumors using nanostructure-initiator mass spectrometry (NIMS) imaging. <i>Cancer &amp; Metabolism</i> , <b>2013</b> , 1, 4	5.4	37
127	A view from above: cloud plots to visualize global metabolomic data. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 798-804	7.2	72
126	ABHD12 controls brain lysophosphatidylserine pathways that are deregulated in a murine model of the neurodegenerative disease PHARC. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 1500-5	11.5	129
125	Small-Molecule Desorption/Ionization Mass Analysis <b>2013</b> , 367-409		
124	XCMS Online: a web-based platform to process untargeted metabolomic data. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 5035-9	7.8	799
123	An accelerated workflow for untargeted metabolomics using the METLIN database. <i>Nature Biotechnology</i> , <b>2012</b> , 30, 826-8	44.5	378
122	The metabolome of induced pluripotent stem cells reveals metabolic changes occurring in somatic cell reprogramming. <i>Cell Research</i> , <b>2012</b> , 22, 168-77	24.7	388
121	Innovation: Metabolomics: the apogee of the omics trilogy. <i>Nature Reviews Molecular Cell Biology</i> , <b>2012</b> , 13, 263-9	48.7	1517
120	Metabolomics implicates altered sphingolipids in chronic pain of neuropathic origin. <i>Nature Chemical Biology</i> , <b>2012</b> , 8, 232-4	11.7	141
119	Meta-analysis of untargeted metabolomic data from multiple profiling experiments. <i>Nature Protocols</i> , <b>2012</b> , 7, 508-16	18.8	135
118	Acoustic deposition with NIMS as a high-throughput enzyme activity assay. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 403, 707-11	4.4	30
117	Generation of retinal pigment epithelial cells from small molecules and OCT4 reprogrammed human induced pluripotent stem cells. <i>Stem Cells Translational Medicine</i> , <b>2012</b> , 1, 96-109	6.9	74
116	Nanostructure-initiator mass spectrometry metabolite analysis and imaging. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 2-7	7.8	135
115	metaXCMS: second-order analysis of untargeted metabolomics data. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 696-700	7.8	86

114	Meta-analysis of global metabolomics and proteomics data to link alterations with phenotype. <i>Spectroscopy</i> , <b>2011</b> , 26, 151-154		
113	A computational framework for proteome-wide pursuit and prediction of metalloproteins using ICP-MS and MS/MS data. <i>BMC Bioinformatics</i> , <b>2011</b> , 12, 64	3.6	18
112	Expanding coverage of the metabolome for global metabolite profiling. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 2152-61	7.8	207
111	Metabolomics annotates ABHD3 as a physiologic regulator of medium-chain phospholipids. <i>Nature Chemical Biology</i> , <b>2011</b> , 7, 763-5	11.7	51
110	Differential macrophage polarization promotes tissue remodeling and repair in a model of ischemic retinopathy. <i>Scientific Reports</i> , <b>2011</b> , 1, 76	4.9	66
109	Short communication: quantitative proteomic plasma profiling reveals activation of host defense to oxidative stress in chronic SIV and methamphetamine comorbidity. <i>AIDS Research and Human Retroviruses</i> , <b>2011</b> , 27, 179-82	1.6	10
108	Type I signal peptidase and protein secretion in <i>Staphylococcus epidermidis</i> . <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 340-8	3.5	26
107	Microbial metalloproteomes are largely uncharacterized. <i>Nature</i> , <b>2010</b> , 466, 779-82	50.4	292
106	Metabolic oxidation regulates embryonic stem cell differentiation. <i>Nature Chemical Biology</i> , <b>2010</b> , 6, 411-7	11.7	396
105	Combined immunocapture and laser desorption/ionization mass spectrometry on porous silicon. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 4201-8	7.8	54
104	Quantitative plasma proteomic profiling identifies the vitamin E binding protein afamin as a potential pathogenic factor in SIV induced CNS disease. <i>Journal of Proteome Research</i> , <b>2010</b> , 9, 352-8	5.6	31
103	Detection of carbohydrates and steroids by cation-enhanced nanostructure-initiator mass spectrometry (NIMS) for biofluid analysis and tissue imaging. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 121-8	7.8	87
102	Large scale physiological readjustment during growth enables rapid, comprehensive and inexpensive systems analysis. <i>BMC Systems Biology</i> , <b>2010</b> , 4, 64	3.5	21
101	Maintaining retinal astrocytes normalizes revascularization and prevents vascular pathology associated with oxygen-induced retinopathy. <i>Glia</i> , <b>2010</b> , 58, 43-54	9	103
100	The glycerophospho metabolome and its influence on amino acid homeostasis revealed by brain metabolomics of GDE1(-/-) mice. <i>Chemistry and Biology</i> , <b>2010</b> , 17, 831-40		31
99	Endothelial targeting of cowpea mosaic virus (CPMV) via surface vimentin. <i>PLoS Pathogens</i> , <b>2009</b> , 5, e1000417	10.4	137
98	Novel multiprotein complexes identified in the hyperthermophilic archaeon <i>Pyrococcus furiosus</i> by non-denaturing fractionation of the native proteome. <i>Molecular and Cellular Proteomics</i> , <b>2009</b> , 8, 735-51	7.6	37
97	Phosphonium labeling for increasing metabolomic coverage of neutral lipids using electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2009</b> , 23, 1849-55	2.2	20



96	Response and recovery in the plasma metabolome tracks the acute LCMV-induced immune response. <i>Journal of Proteome Research</i> , <b>2009</b> , 8, 3578-87	5.6	31
95	Generation of induced pluripotent stem cells using recombinant proteins. <i>Cell Stem Cell</i> , <b>2009</b> , 4, 381-4	18	1469
94	Generation of Induced Pluripotent Stem Cells Using Recombinant Proteins. <i>Cell Stem Cell</i> , <b>2009</b> , 4, 581	18	36
93	Variability analysis of human plasma and cerebral spinal fluid reveals statistical significance of changes in mass spectrometry-based metabolomics data. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 8538-44	7.8	104
92	Nanostructure initiator mass spectrometry: tissue imaging and direct biofluid analysis. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 2969-75	7.8	110
91	Cerebrospinal fluid proteomics reveals potential pathogenic changes in the brains of SIV-infected monkeys. <i>Journal of Proteome Research</i> , <b>2009</b> , 8, 2253-60	5.6	30
90	Metabolomics analysis reveals large effects of gut microflora on mammalian blood metabolites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 3698-703	11.5	1696
89	Identification of a new endogenous metabolite and the characterization of its protein interactions through an immobilization approach. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 378-86	16.4	47
88	Antioxidant or neurotrophic factor treatment preserves function in a mouse model of neovascularization-associated oxidative stress. <i>Journal of Clinical Investigation</i> , <b>2009</b> , 119, 611-23	15.9	93
87	Nanostructure-initiator mass spectrometry: a protocol for preparing and applying NIMS surfaces for high-sensitivity mass analysis. <i>Nature Protocols</i> , <b>2008</b> , 3, 1341-9	18.8	112
86	Correlating the transcriptome, proteome, and metabolome in the environmental adaptation of a hyperthermophile. <i>Journal of Proteome Research</i> , <b>2008</b> , 7, 1027-35	5.6	60
85	Quantitative ESI-TOF analysis of macromolecular assembly kinetics. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 9379-88	21	
84	Multiple organic anion transporters contribute to net renal excretion of uric acid. <i>Physiological Genomics</i> , <b>2008</b> , 33, 180-92	3.6	178
83	A nanostructure-initiator mass spectrometry-based enzyme activity assay. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 3678-83	11.5	132
82	Organic anion transporter 3 contributes to the regulation of blood pressure. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2008</b> , 19, 1732-40	12.7	65
81	Metabolomics relative quantitation with mass spectrometry using chemical derivatization and isotope labeling. <i>Spectroscopy</i> , <b>2008</b> , 22, 327-343		15
80	Multiple ionization mass spectrometry strategy used to reveal the complexity of metabolomics. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 421-9	7.8	163
79	Metabolomic analysis of the cerebrospinal fluid reveals changes in phospholipase expression in the CNS of SIV-infected macaques. <i>Journal of Clinical Investigation</i> , <b>2008</b> , 118, 2661-9	15.9	105



78	Selective metabolite and peptide capture/mass detection using fluoros affinity tags. <i>Journal of Proteome Research</i> , <b>2007</b> , 6, 1492-9	5.6	78
77	Metabolomics identifies perturbations in human disorders of propionate metabolism. <i>Clinical Chemistry</i> , <b>2007</b> , 53, 2169-76	5.5	134
76	From exogenous to endogenous: the inevitable imprint of mass spectrometry in metabolomics. <i>Journal of Proteome Research</i> , <b>2007</b> , 6, 459-68	5.6	241
75	High surface area of porous silicon drives desorption of intact molecules. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2007</b> , 18, 1945-9	3.5	64
74	Clathrate nanostructures for mass spectrometry. <i>Nature</i> , <b>2007</b> , 449, 1033-6	50.4	426
73	Biomarkers for neuroAIDS: the widening scope of metabolomics. <i>Journal of NeuroImmune Pharmacology</i> , <b>2007</b> , 2, 72-80	6.9	28
72	Coagulation and complement protein differences between septic and uninfected systemic inflammatory response syndrome patients. <i>Journal of Trauma</i> , <b>2007</b> , 62, 1082-92; discussion 1092-4		16
71	Mobilization of pro-inflammatory lipids in obese Plscr3-deficient mice. <i>Genome Biology</i> , <b>2007</b> , 8, R38	18.3	16
70	Reactivity-based one-pot synthesis of the tumor-associated antigen N3 minor octasaccharide for the development of a photocleavable DIOS-MS sugar array. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 2753-7	16.4	58
69	Reactivity-Based One-Pot Synthesis of the Tumor-Associated Antigen N3 Minor Octasaccharide for the Development of a Photocleavable DIOS-MS Sugar Array. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 2819-2823	3.6	7
68	Solvent-dependent metabolite distribution, clustering, and protein extraction for serum profiling with mass spectrometry. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 743-52	7.8	336
67	Nonlinear data alignment for UPLC-MS and HPLC-MS based metabolomics: quantitative analysis of endogenous and exogenous metabolites in human serum. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 3289-95	7.8	252
66	Surfactant-enhanced desorption/ionization on silicon mass spectrometry. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 272-8	7.8	50
65	Sepsis plasma protein profiling with immunodepletion, three-dimensional liquid chromatography tandem mass spectrometry, and spectrum counting. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 3154-60	5.6	52
64	XCMS: processing mass spectrometry data for metabolite profiling using nonlinear peak alignment, matching, and identification. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 779-87	7.8	3048
63	Atmospheric pressure desorption/ionization on silicon ion trap mass spectrometry applied to the quantitation of midazolam in rat plasma and determination of midazolam 1Hydroxylation kinetics in human liver microsomes. <i>Rapid Communications in Mass Spectrometry</i> , <b>2006</b> , 20, 3717-22	2.2	5
62	Mass spectrometry reveals specific and global molecular transformations during viral infection. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 2405-16	5.6	39
61	Phospholipid capture combined with non-linear chromatographic correction for improved serum metabolite profiling. <i>Metabolomics</i> , <b>2006</b> , 2, 145-154	4.7	24

60	Molecular basis for the specificity of p27 toward cyclin-dependent kinases that regulate cell division. <i>Journal of Molecular Biology</i> , <b>2005</b> , 349, 764-73	6.5	58
59	METLIN: a metabolite mass spectral database. <i>Therapeutic Drug Monitoring</i> , <b>2005</b> , 27, 747-51	3.2	1623
58	Surface modification and laser pulse length effects on internal energy transfer in DIOS. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 24450-6	3.4	73
57	An assembly landscape for the 30S ribosomal subunit. <i>Nature</i> , <b>2005</b> , 438, 628-32	50.4	214
56	Maturation of a tetravirus capsid alters the dynamic properties and creates a metastable complex. <i>Virology</i> , <b>2005</b> , 334, 17-27	3.6	36
55	The expanding role of mass spectrometry in metabolite profiling and characterization. <i>ChemBioChem</i> , <b>2005</b> , 6, 1941-51	3.8	175
54	Monitoring EDTA and endogenous metabolite biomarkers from serum with mass spectrometry. <i>Spectroscopy</i> , <b>2005</b> , 19, 137-146		8
53	Electrospray ion mobility spectrometry of intact viruses. <i>Spectroscopy</i> , <b>2004</b> , 18, 31-36		73
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