

# Aalim M Weljie

## List of Publications by Year in descending order

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106  
papers

7,386  
citations

53794

45  
h-index

56724

83  
g-index

111  
all docs

111  
docs citations

111  
times ranked

12845  
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeted Profiling: Quantitative Analysis of <sup>1</sup> H NMR Metabolomics Data. <i>Analytical Chemistry</i> , 2006, 78, 4430-4442.	6.5	844
2	Comparative metabolomics in vegans and omnivores reveal constraints on diet-dependent gut microbiota metabolite production. <i>Gut</i> , 2016, 65, 63-72.	12.1	428
3	A branched-chain amino acid metabolite drives vascular fatty acid transport and causes insulin resistance. <i>Nature Medicine</i> , 2016, 22, 421-426.	30.7	421
4	Investigations of the Effects of Gender, Diurnal Variation, and Age in Human Urinary Metabolomic Profiles. <i>Analytical Chemistry</i> , 2007, 79, 6995-7004.	6.5	361
5	Tryptophan Fluorescence Quenching by Methionine and Selenomethionine Residues of Calmodulin: Orientation of Peptide and Protein Binding. <i>Biochemistry</i> , 1998, 37, 3187-3195.	2.5	359
6	ATP-Citrate Lyase Controls a Glucose-to-Acetate Metabolic Switch. <i>Cell Reports</i> , 2016, 17, 1037-1052.	6.4	282
7	MYC Disrupts the Circadian Clock and Metabolism in Cancer Cells. <i>Cell Metabolism</i> , 2015, 22, 1009-1019.	16.2	217
8	Nuclear Acetyl-CoA Production by ACLY Promotes Homologous Recombination. <i>Molecular Cell</i> , 2017, 67, 252-265.e6.	9.7	184
9	Clock Regulation of Metabolites Reveals Coupling between Transcription and Metabolism. <i>Cell Metabolism</i> , 2017, 25, 961-974.e4.	16.2	162
10	Understanding the human salivary metabolome. <i>NMR in Biomedicine</i> , 2009, 22, 577-584.	2.8	150
11	<i>Candida albicans</i> stimulates <i>Streptococcus mutans</i> microcolony development via cross-kingdom biofilm-derived metabolites. <i>Scientific Reports</i> , 2017, 7, 41332.	3.3	148
12	An in vivo patient-derived model of endogenous IDH1-mutant glioma. <i>Neuro-Oncology</i> , 2012, 14, 184-191.	1.2	145
13	Feasibility of Identifying Pancreatic Cancer Based on Serum Metabolomics. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2011, 20, 140-147.	2.5	144
14	Differences in Metabolism between the Biofilm and Planktonic Response to Metal Stress. <i>Journal of Proteome Research</i> , 2011, 10, 3190-3199.	3.7	136
15	An Inflammatory Arthritis-Associated Metabolite Biomarker Pattern Revealed by <sup>1</sup> H NMR Spectroscopy. <i>Journal of Proteome Research</i> , 2007, 6, 3456-3464.	3.7	134
16	Oxalic acid and diacylglycerol 36:3 are cross-species markers of sleep debt. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2569-2574.	7.1	121
17	Metabolomic profiling of dietary-induced insulin resistance in the high fat-fed C57BL/6J mouse. <i>Diabetes, Obesity and Metabolism</i> , 2008, 10, 950-958.	4.4	111
18	Hypoxia-induced metabolic shifts in cancer cells: Moving beyond the Warburg effect. <i>International Journal of Biochemistry and Cell Biology</i> , 2011, 43, 981-989.	2.8	111

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19	Metabolomic Investigation of the Bacterial Response to a Metal Challenge. <i>Applied and Environmental Microbiology</i> , 2009, 75, 719-728.	3.1	110
20	A validated metabolomic signature for colorectal cancer: exploration of the clinical value of metabolomics. <i>British Journal of Cancer</i> , 2016, 115, 848-857.	6.4	108
21	Solution structures of the cytoplasmic tail complex from platelet integrin $\alpha$ IIb- and $\beta$ 3-subunits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 5878-5883.	7.1	101
22	Quality Assessment of Ginseng by $^1\text{H}$ NMR Metabolite Fingerprinting and Profiling Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 7513-7522.	5.2	101
23	The Solution Structure of the C-terminal Domain of TonB and Interaction Studies with TonB Box Peptides. <i>Journal of Molecular Biology</i> , 2005, 345, 1185-1197.	4.2	99
24	Serum metabolomic profile as a means to distinguish stage of colorectal cancer. <i>Genome Medicine</i> , 2012, 4, 42.	8.2	97
25	Quantitative $^1\text{H}$ NMR metabolomics reveals extensive metabolic reprogramming of primary and secondary metabolism in elicitor-treated opium poppy cell cultures. <i>BMC Plant Biology</i> , 2008, 8, 5.	3.6	96
26	Molecular properties of the putative nitrogen sensor PII from <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2003, 33, 353-360.	5.7	81
27	Metabolic analysis of knee synovial fluid as a potential diagnostic approach for osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1631-1638.	2.3	80
28	A Pilot Characterization of the Human Chronobiome. <i>Scientific Reports</i> , 2017, 7, 17141.	3.3	70
29	A Global Metabolic Shift Is Linked to <i>Salmonella</i> Multicellular Development. <i>PLoS ONE</i> , 2010, 5, e11814.	2.5	66
30	$^1\text{H}$ NMR-based metabolomic analysis of urine from preterm and term neonates. <i>Frontiers in Bioscience - Elite</i> , 2011, E3, 1005-1012.	1.8	65
31	Targeting glutamine metabolism slows soft tissue sarcoma growth. <i>Nature Communications</i> , 2020, 11, 498.	12.8	63
32	Environmental Contaminant Mixtures at Ambient Concentrations Invoke a Metabolic Stress Response in Goldfish Not Predicted from Exposure to Individual Compounds Alone. <i>Journal of Proteome Research</i> , 2012, 11, 1133-1143.	3.7	62
33	COMPUTATIONAL TOOLS FOR THE SECONDARY ANALYSIS OF METABOLOMICS EXPERIMENTS. <i>Computational and Structural Biotechnology Journal</i> , 2013, 4, e201301003.	4.1	62
34	$^1\text{H}$ NMR metabolomics identification of markers of hypoxia-induced metabolic shifts in a breast cancer model system. <i>Journal of Biomolecular NMR</i> , 2011, 49, 185-193.	2.8	61
35	Plasma metabolomics for the diagnosis and prognosis of H1N1 influenza pneumonia. <i>Critical Care</i> , 2017, 21, 97.	5.8	59
36	Metabolomics and its application to studying metal toxicity. <i>Metallomics</i> , 2011, 3, 1142.	2.4	57

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37	ACSS2-mediated acetyl-CoA synthesis from acetate is necessary for human cytomegalovirus infection. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1528-E1535.	7.1	57
38	Metabolomics reveals differences of metal toxicity in cultures of <i>Pseudomonas pseudoalcaligenes</i> KF707 grown on different carbon sources. Frontiers in Microbiology, 2015, 6, 827.	3.5	56
39	Protein conformational changes studied by diffusion NMR spectroscopy: Application to helix-loop-helix calcium binding proteins. Protein Science, 2003, 12, 228-236.	7.6	54
40	Phenotypic and metabolic profiling of colony morphology variants evolved from <i>Pseudomonas fluorescens</i> biofilms. Environmental Microbiology, 2010, 12, 1565-1577.	3.8	53
41	A stromal Integrated Stress Response activates perivascular cancer-associated fibroblasts to drive angiogenesis and tumour progression. Nature Cell Biology, 2022, 24, 940-953.	10.3	52
42	Fructose-1,6-Bisphosphatase 2 Inhibits Sarcoma Progression by Restraining Mitochondrial Biogenesis. Cell Metabolism, 2020, 31, 174-188.e7.	16.2	51
43	Satiety Hormone and Metabolomic Response to an Intermittent High Energy Diet Differs in Rats Consuming Long-Term Diets High in Protein or Prebiotic Fiber. Journal of Proteome Research, 2012, 11, 4065-4074.	3.7	50
44	Quantitative <sup>1</sup> H Nuclear Magnetic Resonance Metabolite Profiling as a Functional Genomics Platform to Investigate Alkaloid Biosynthesis in Opium Poppy <i>A.</i> Plant Physiology, 2008, 147, 1805-1821.	4.8	49
45	Rhythmic glucose metabolism regulates the redox circadian clockwork in human red blood cells. Nature Communications, 2021, 12, 377.	12.8	49
46	Mitochondrial dysfunction in inflammatory bowel disease alters intestinal epithelial metabolism of hepatic acylcarnitines. Journal of Clinical Investigation, 2021, 131, .	8.2	49
47	Quantitative analysis of metabolite concentrations in human urine samples using <sup>13</sup> C{ <sup>1</sup> H} NMR spectroscopy. Metabolomics, 2009, 5, 307-317.	3.0	48
48	Metabolomic response to exercise training in lean and diet-induced obese mice. Journal of Applied Physiology, 2011, 110, 1311-1318.	2.5	48
49	Temporal characterization of serum metabolite signatures in lung cancer patients undergoing treatment. Metabolomics, 2016, 12, 58.	3.0	47
50	<sup>1</sup> H NMR-based metabolic profiling of urine from children with nephrouropathies. Frontiers in Bioscience - Elite, 2010, E2, 725-732.	1.8	39
51	Tryptophan fluorescence of calmodulin binding domain peptides interacting with calmodulin containing unnatural methionine analogues. Protein Engineering, Design and Selection, 2000, 13, 59-66.	2.1	38
52	Evaluation of Extraction Protocols for Simultaneous Polar and Non-Polar Yeast Metabolite Analysis Using Multivariate Projection Methods. Metabolites, 2013, 3, 592-605.	2.9	37
53	Differentiating short- and long-term effects of diet in the obese mouse using <sup>1</sup> H-nuclear magnetic resonance metabolomics. Diabetes, Obesity and Metabolism, 2011, 13, 859-862.	4.4	36
54	Elevated physiological levels of folic acid can increase <i>in vitro</i> growth and invasiveness of prostate cancer cells. BJU International, 2012, 109, 788-795.	2.5	35

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55	Circadian and Sleep Metabolomics Across Species. <i>Journal of Molecular Biology</i> , 2020, 432, 3578-3610.	4.2	34
56	Altered diurnal states in insomnia reflect peripheral hyperarousal and metabolic desynchrony: a preliminary study. <i>Sleep</i> , 2018, 41, .	1.1	30
57	Metabolic footprinting study of white spruce somatic embryogenesis using NMR spectroscopy. <i>Plant Physiology and Biochemistry</i> , 2009, 47, 343-350.	5.8	29
58	Independent Effects of $\hat{1}^3$ -Aminobutyric Acid Transaminase (GABAT) on Metabolic and Sleep Homeostasis. <i>Journal of Biological Chemistry</i> , 2015, 290, 20407-20416.	3.4	29
59	CRY1 $\hat{1}$ CBS binding regulates circadian clock function and metabolism. <i>FEBS Journal</i> , 2021, 288, 614-639.	4.7	29
60	Comprehensive optimization of LC $\hat{1}$ MS metabolomics methods using design of experiments (COLMed). <i>Metabolomics</i> , 2016, 12, 1.	3.0	28
61	Evaluating Low-Intensity Unknown Signals in Quantitative Proton NMR Mixture Analysis. <i>Analytical Chemistry</i> , 2008, 80, 8956-8965.	6.5	26
62	Sleep restriction induced energy, methylation and lipogenesis metabolic switches in rat liver. <i>International Journal of Biochemistry and Cell Biology</i> , 2017, 93, 129-135.	2.8	25
63	Time is ripe: maturation of metabolomics in chronobiology. <i>Current Opinion in Biotechnology</i> , 2017, 43, 70-76.	6.6	24
64	Circadian- and Light-driven Metabolic Rhythms in <i>Drosophila melanogaster</i> . <i>Journal of Biological Rhythms</i> , 2018, 33, 126-136.	2.6	24
65	Unexpected Structure of the Ca $^{2+}$ -regulatory Region from Soybean Calcium-dependent Protein Kinase- $\hat{1}$ . <i>Journal of Biological Chemistry</i> , 2004, 279, 35494-35502.	3.4	23
66	Homology Modeling Identifies C-Terminal Residues that Contribute to the Ca $^{2+}$ Sensitivity of a BKCa Channel. <i>Biophysical Journal</i> , 2005, 89, 3079-3092.	0.5	23
67	Deciphering the Duality of Clock and Growth Metabolism in a Cell Autonomous System Using NMR Profiling of the Secretome. <i>Metabolites</i> , 2016, 6, 23.	2.9	20
68	Metabolomics in critical care medicine: a new approach to biomarker discovery. <i>Clinical and Investigative Medicine</i> , 2014, 37, 363.	0.6	20
69	Targeted Cancer Therapeutics: Biosynthetic and Energetic Pathways Characterized by Metabolomics and the Interplay with Key Cancer Regulatory Factors. <i>Current Pharmaceutical Design</i> , 2014, 20, 2637-2647.	1.9	19
70	A quantitative metabolomics profiling approach for the noninvasive assessment of liver histology in patients with chronic hepatitis C. <i>Clinical and Translational Medicine</i> , 2016, 5, 33.	4.0	18
71	Comparative modeling studies of the calmodulin-like domain of calcium-dependent protein kinase from soybean. , 2000, 39, 343-357.		17
72	A low carbohydrate, high protein diet combined with celecoxib markedly reduces metastasis. <i>Carcinogenesis</i> , 2014, 35, 2291-2299.	2.8	16

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73	Backbone dynamic properties of the central linker region of calcium-calmodulin in 35% trifluoroethanol. <i>Journal of Structural Biology</i> , 2004, 146, 272-280.	2.8	15
74	Extraction and Analysis of Pan-metabolome Polar Metabolites by Ultra Performance Liquid Chromatography-Tandem Mass Spectrometry (UPLC-MS/MS). <i>Bio-protocol</i> , 2018, 8, .	0.4	15
75	Distinguishing Benign from Malignant Pancreatic and Periapillary Lesions Using Combined Use of 1H-NMR Spectroscopy and Gas Chromatography-Mass Spectrometry. <i>Metabolites</i> , 2017, 7, 3.	2.9	14
76	Plasma lipid profiling for the prognosis of 90-day mortality, in-hospital mortality, ICU admission, and severity in bacterial community-acquired pneumonia (CAP). <i>Critical Care</i> , 2020, 24, 461.	5.8	14
77	Cyclooxygenase-2, Asymmetric Dimethylarginine, and the Cardiovascular Hazard From Nonsteroidal Anti-Inflammatory Drugs. <i>Circulation</i> , 2018, 138, 2367-2378.	1.6	13
78	Cross-species physiological interactions of endocrine disrupting chemicals with the circadian clock. <i>General and Comparative Endocrinology</i> , 2021, 301, 113650.	1.8	12
79	NMR Spectroscopy-Based Metabolic Profiling of Biospecimens. <i>Current Protocols in Protein Science</i> , 2019, 98, e98.	2.8	11
80	LEVERAGING LATENT INFORMATION IN NMR SPECTRA FOR ROBUST PREDICTIVE MODELS. , 2006, , .		10
81	A Pilot Study on the Utility of Serum Metabolomics in Neuroblastoma Patients and Xenograft Models. <i>Pediatric Blood and Cancer</i> , 2016, 63, 214-220.	1.5	9
82	Leveraging latent information in NMR spectra for robust predictive models. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2007, , 115-26.	0.7	9
83	Considerations for the Safe Operation of Schools During the Coronavirus Pandemic. <i>Frontiers in Public Health</i> , 2021, 9, 751451.	2.7	9
84	Conformational Changes in the Ca <sup>2+</sup> -regulatory Region from Soybean Calcium-dependent Protein Kinase- $\beta$ . <i>Journal of Biological Chemistry</i> , 2003, 278, 43764-43769.	3.4	8
85	Metabolism of sleep and aging: Bridging the gap using metabolomics. <i>Nutrition and Healthy Aging</i> , 2019, 5, 167-184.	1.1	7
86	Metabolites as Prognostic Markers for Metastatic Non-Small Cell Lung Cancer (NSCLC) Patients Treated with First-Line Platinum-Doublet Chemotherapy. <i>Cancers</i> , 2020, 12, 1926.	3.7	7
87	Effect of Nanoparticle Synthetic Conditions on Ligand Coating Integrity and Subsequent Nano-Biointeractions. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 58401-58410.	8.0	7
88	Evaluation of <sup>1</sup> H NMR Metabolic Profiling Using Biofluid Mixture Design. <i>Analytical Chemistry</i> , 2013, 85, 6674-6681.	6.5	5
89	Primary Metabolism and Medium-Chain Fatty Acid Alterations Precede Long-Chain Fatty Acid Changes Impacting Neutral Lipid Metabolism in Response to an Anticancer Lysophosphatidylcholine Analogue in Yeast. <i>Journal of Proteome Research</i> , 2017, 16, 3741-3752.	3.7	5
90	Performance of variable selection methods using stability-based selection. <i>BMC Research Notes</i> , 2017, 10, 143.	1.4	5

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91	Misregulation of Drosophila Myc Disrupts Circadian Behavior and Metabolism. <i>Cell Reports</i> , 2019, 29, 1778-1788.e4.	6.4	5
92	Whole blood transcriptome analysis using RNA sequencing in individuals with insomnia disorder and good sleepers: a pilot study. <i>Sleep Medicine</i> , 2021, 80, 1-8.	1.6	5
93	Solution Structure and Backbone Dynamics of the N-Terminal Region of the Calcium Regulatory Domain from Soybean Calcium-Dependent Protein Kinase. <i>Biochemistry</i> , 2004, 43, 15131-15140.	2.5	4
94	Metabolite Imaging at the Margin: Visualizing Metabolic Tumor Gradients Using Mass Spectrometry. <i>Cancer Research</i> , 2020, 80, 1231-1233.	0.9	4
95	Steady-State Fluorescence Spectroscopy. , 2002, 173, 075-087.		3
96	Acute dextro-amphetamine administration does not alter brain myo-inositol levels in humans and animals: MRS investigations at 3 and 18.8T. <i>Neuroscience Research</i> , 2008, 61, 351-359.	1.9	3
97	Seasonally Related Disruption of Metabolism by Environmental Contaminants in Male Goldfish ( <i>Carassius auratus</i> ). <i>Frontiers in Toxicology</i> , 2021, 3, 750870.	3.1	2
98	Disease Specific Modulation of Serum Hepcidin: Impact of GDF-15 and Iron Metabolism Markers in Thalassemia Major, Thalassemia Intermedia and Sickle Cell Disease: A Univariate and Multivariate Analysis.. <i>Blood</i> , 2008, 112, 3850-3850.	1.4	2
99	Structural Genomics. , 0, , 273-295.		0
100	Extracellular Metabolite Biomarkers of Bortezomib Resistance in Multiple Myeloma Indicate Involvement of Unexpected Metabolic Pathways.. <i>Blood</i> , 2009, 114, 1839-1839.	1.4	0
101	Abstract 5104: Serum metabolomic profiles acquired by gas chromatography-mass spectrometry (GC-MS) distinguish patients with pancreatic adenocarcinoma from those with benign pancreatic disease. , 2011, , .		0
102	Serum Metabolite Profiles Are Reflective of Iron Overload in Thalassemia Major Patients on Chelation Therapy. <i>Blood</i> , 2011, 118, 2112-2112.	1.4	0
103	Abstract 4109: The unfolded protein response promotes tolerance to extreme hypoxia through autophagy dependent maintenance of cellular metabolism. , 2012, , .		0
104	Targeted analysis of progressive metabolic perturbations in colorectal cancer in colorectal adenoma: Potential for a serum metabolomics-based colorectal cancer screening test.. <i>Journal of Clinical Oncology</i> , 2014, 32, 426-426.	1.6	0
105	Treatment of Insomnia with Zaleplon in HIV+ Significantly Improves Sleep and Depression. <i>Psychopharmacology Bulletin</i> , 2021, 51, 50-64.	0.0	0
106	0426 Shallower sleep depth in the laboratory is not related to insomnia severity. <i>Sleep</i> , 2022, 45, A189-A190.	1.1	0