

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	0426 Shallower sleep depth in the laboratory is not related to insomnia severity. <i>Sleep</i> , 2022, 45, A189-A190.	1.1	0
2	A stromal Integrated Stress Response activates perivascular cancer-associated fibroblasts to drive angiogenesis and tumour progression. <i>Nature Cell Biology</i> , 2022, 24, 940-953.	10.3	52
3	CRY1–CBS binding regulates circadian clock function and metabolism. <i>FEBS Journal</i> , 2021, 288, 614-639.	4.7	29
4	Cross-species physiological interactions of endocrine disrupting chemicals with the circadian clock. <i>General and Comparative Endocrinology</i> , 2021, 301, 113650.	1.8	12
5	Rhythmic glucose metabolism regulates the redox circadian clockwork in human red blood cells. <i>Nature Communications</i> , 2021, 12, 377.	12.8	49
6	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
7	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
8	Mitochondrial dysfunction in inflammatory bowel disease alters intestinal epithelial metabolism of hepatic acylcarnitines. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	49
9	Treatment of Insomnia with Zaleplon in HIV+ Significantly Improves Sleep and Depression. <i>Psychopharmacology Bulletin</i> , 2021, 51, 50-64.	0.0	0
10	Effect of Nanoparticle Synthetic Conditions on Ligand Coating Integrity and Subsequent Nano-Biointeractions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58401-58410.	8.0	7
11	Considerations for the Safe Operation of Schools During the Coronavirus Pandemic. <i>Frontiers in Public Health</i> , 2021, 9, 751451.	2.7	9
12	Fructose-1,6-Bisphosphatase 2 Inhibits Sarcoma Progression by Restraining Mitochondrial Biogenesis. <i>Cell Metabolism</i> , 2020, 31, 174-188.e7.	16.2	51
13	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
14	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
15	Circadian and Sleep Metabolomics Across Species. <i>Journal of Molecular Biology</i> , 2020, 432, 3578-3610.	4.2	34
16	Metabolite Imaging at the Margin: Visualizing Metabolic Tumor Gradients Using Mass Spectrometry. <i>Cancer Research</i> , 2020, 80, 1231-1233.	0.9	4
17	Targeting glutamine metabolism slows soft tissue sarcoma growth. <i>Nature Communications</i> , 2020, 11, 498.	12.8	63
18	NMR Spectroscopy–Based Metabolic Profiling of Biospecimens. <i>Current Protocols in Protein Science</i> , 2019, 98, e98.	2.8	11

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19	Misregulation of Drosophila Myc Disrupts Circadian Behavior and Metabolism. <i>Cell Reports</i> , 2019, 29, 1778-1788.e4.	6.4	5
20	Metabolism of sleep and aging: Bridging the gap using metabolomics. <i>Nutrition and Healthy Aging</i> , 2019, 5, 167-184.	1.1	7
21	Altered diurnal states in insomnia reflect peripheral hyperarousal and metabolic desynchrony: a preliminary study. <i>Sleep</i> , 2018, 41, .	1.1	30
22	Circadian- and Light-driven Metabolic Rhythms in <i>Drosophila melanogaster</i> . <i>Journal of Biological Rhythms</i> , 2018, 33, 126-136.	2.6	24
23	Cyclooxygenase-2, Asymmetric Dimethylarginine, and the Cardiovascular Hazard From Nonsteroidal Anti-Inflammatory Drugs. <i>Circulation</i> , 2018, 138, 2367-2378.	1.6	13
24	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
25	<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
26	ACSS2-mediated acetyl-CoA synthesis from acetate is necessary for human cytomegalovirus infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1528-E1535.	7.1	57
27	Plasma metabolomics for the diagnosis and prognosis of H1N1 influenza pneumonia. <i>Critical Care</i> , 2017, 21, 97.	5.8	59
28	Clock Regulation of Metabolites Reveals Coupling between Transcription and Metabolism. <i>Cell Metabolism</i> , 2017, 25, 961-974.e4.	16.2	162
29	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
30	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
31	A Pilot Characterization of the Human Chronobiome. <i>Scientific Reports</i> , 2017, 7, 17141.	3.3	70
32	Nuclear Acetyl-CoA Production by ACLY Promotes Homologous Recombination. <i>Molecular Cell</i> , 2017, 67, 252-265.e6.	9.7	184
33	Performance of variable selection methods using stability-based selection. <i>BMC Research Notes</i> , 2017, 10, 143.	1.4	5
34	Time is ripe: maturation of metabolomics in chronobiology. <i>Current Opinion in Biotechnology</i> , 2017, 43, 70-76.	6.6	24
35	Distinguishing Benign from Malignant Pancreatic and Periampullary Lesions Using Combined Use of 1H-NMR Spectroscopy and Gas Chromatography-Mass Spectrometry. <i>Metabolites</i> , 2017, 7, 3.	2.9	14
36	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

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37	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
38	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
39	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
40	Comprehensive optimization of LC-MS metabolomics methods using design of experiments (COLMeD). <i>Metabolomics</i> , 2016, 12, 1.	3.0	28
41	ATP-Citrate Lyase Controls a Glucose-to-Acetate Metabolic Switch. <i>Cell Reports</i> , 2016, 17, 1037-1052.	6.4	282
42	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
43	Temporal characterization of serum metabolite signatures in lung cancer patients undergoing treatment. <i>Metabolomics</i> , 2016, 12, 58.	3.0	47
44	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
45	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
46	Metabolomics reveals differences of metal toxicity in cultures of <i>Pseudomonas pseudoalcaligenes</i> KF707 grown on different carbon sources. <i>Frontiers in Microbiology</i> , 2015, 6, 827.	3.5	56
47	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
48	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
49	MYC Disrupts the Circadian Clock and Metabolism in Cancer Cells. <i>Cell Metabolism</i> , 2015, 22, 1009-1019.	16.2	217
50	A low carbohydrate, high protein diet combined with celecoxib markedly reduces metastasis. <i>Carcinogenesis</i> , 2014, 35, 2291-2299.	2.8	16
51	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
52	Metabolomics in critical care medicine: a new approach to biomarker discovery. <i>Clinical and Investigative Medicine</i> , 2014, 37, 363.	0.6	20
53	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
54	Evaluation of ^1H NMR Metabolic Profiling Using Biofluid Mixture Design. <i>Analytical Chemistry</i> , 2013, 85, 6674-6681.	6.5	5

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55	COMPUTATIONAL TOOLS FOR THE SECONDARY ANALYSIS OF METABOLOMICS EXPERIMENTS. Computational and Structural Biotechnology Journal, 2013, 4, e201301003.	4.1	62
56	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
57	An in vivo patient-derived model of endogenous IDH1-mutant glioma. Neuro-Oncology, 2012, 14, 184-191.	1.2	145
58	Environmental Contaminant Mixtures at Ambient Concentrations Invoke a Metabolic Stress Response in Goldfish Not Predicted from Exposure to Individual Compounds Alone. Journal of Proteome Research, 2012, 11, 1133-1143.	3.7	62
59	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
60	Serum metabolomic profile as a means to distinguish stage of colorectal cancer. Genome Medicine, 2012, 4, 42.	8.2	97
61	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
62	Abstract 4109: The unfolded protein response promotes tolerance to extreme hypoxia through autophagy dependent maintenance of cellular metabolism. , 2012, , .		0
63	Metabolomic response to exercise training in lean and diet-induced obese mice. Journal of Applied Physiology, 2011, 110, 1311-1318.	2.5	48
64	Feasibility of Identifying Pancreatic Cancer Based on Serum Metabolomics. Cancer Epidemiology Biomarkers and Prevention, 2011, 20, 140-147.	2.5	144
65	Differences in Metabolism between the Biofilm and Planktonic Response to Metal Stress. Journal of Proteome Research, 2011, 10, 3190-3199.	3.7	136
66	Metabolomics and its application to studying metal toxicity. Metallomics, 2011, 3, 1142.	2.4	57
67	Hypoxia-induced metabolic shifts in cancer cells: Moving beyond the Warburg effect. International Journal of Biochemistry and Cell Biology, 2011, 43, 981-989.	2.8	111
68	¹ H NMR-based metabolomic analysis of urine from preterm and term neonates. Frontiers in Bioscience - Elite, 2011, E3, 1005-1012.	1.8	65
69	Differentiating short- and long-term effects of diet in the obese mouse using ¹ H-nuclear magnetic resonance metabolomics. Diabetes, Obesity and Metabolism, 2011, 13, 859-862.	4.4	36
70	¹ H NMR metabolomics identification of markers of hypoxia-induced metabolic shifts in a breast cancer model system. Journal of Biomolecular NMR, 2011, 49, 185-193.	2.8	61
71	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
72	Serum Metabolite Profiles Are Reflective of Iron Overload in Thalassemia Major Patients on Chelation Therapy. Blood, 2011, 118, 2112-2112.	1.4	0

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73	Phenotypic and metabolic profiling of colony morphology variants evolved from <i>Pseudomonas fluorescens</i> biofilms. <i>Environmental Microbiology</i> , 2010, 12, 1565-1577.	3.8	53
74	A Global Metabolic Shift Is Linked to Salmonella Multicellular Development. <i>PLoS ONE</i> , 2010, 5, e11814.	2.5	66
75	¹ H NMR-based metabolic profiling of urine from children with nephrouropathies. <i>Frontiers in Bioscience - Elite</i> , 2010, E2, 725-732.	1.8	39
76	Understanding the human salivary metabolome. <i>NMR in Biomedicine</i> , 2009, 22, 577-584.	2.8	150
77	Metabolic footprinting study of white spruce somatic embryogenesis using NMR spectroscopy. <i>Plant Physiology and Biochemistry</i> , 2009, 47, 343-350.	5.8	29
78	Quantitative analysis of metabolite concentrations in human urine samples using ¹³ C{ ¹ H} NMR spectroscopy. <i>Metabolomics</i> , 2009, 5, 307-317.	3.0	48
79	Quality Assessment of Ginseng by ¹ H NMR Metabolite Fingerprinting and Profiling Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 7513-7522.	5.2	101
80	Metabolomic Investigation of the Bacterial Response to a Metal Challenge. <i>Applied and Environmental Microbiology</i> , 2009, 75, 719-728.	3.1	110
81	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
82	Evaluating Low-Intensity Unknown Signals in Quantitative Proton NMR Mixture Analysis. <i>Analytical Chemistry</i> , 2008, 80, 8956-8965.	6.5	26
83	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
84	Quantitative ¹ 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
85	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
86	Quantitative ¹ H Nuclear Magnetic Resonance Metabolite Profiling as a Functional Genomics Platform to Investigate Alkaloid Biosynthesis in Opium Poppy Å. <i>Plant Physiology</i> , 2008, 147, 1805-1821.	4.8	49
87	Disease Specific Modulation of Serum Hpcidin: 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
88	An Inflammatory Arthritis-Associated Metabolite Biomarker Pattern Revealed by ¹ H NMR Spectroscopy. <i>Journal of Proteome Research</i> , 2007, 6, 3456-3464.	3.7	134
89	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
90	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

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91	Targeted Profiling: Quantitative Analysis of ¹ H NMR Metabolomics Data. <i>Analytical Chemistry</i> , 2006, 78, 4430-4442.	6.5	844
92	LEVERAGING LATENT INFORMATION IN NMR SPECTRA FOR ROBUST PREDICTIVE MODELS. , 2006, , .		10
93	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
94	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
95	Unexpected Structure of the Ca ²⁺ -regulatory Region from Soybean Calcium-dependent Protein Kinase- β . <i>Journal of Biological Chemistry</i> , 2004, 279, 35494-35502.	3.4	23
96	Solution Structure and Backbone Dynamics of the N-Terminal Region of the Calcium Regulatory Domain from Soybean Calcium-Dependent Protein Kinase β . <i>Biochemistry</i> , 2004, 43, 15131-15140.	2.5	4
97	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
98	Protein conformational changes studied by diffusion NMR spectroscopy: Application to helix-loop-helix calcium binding proteins. <i>Protein Science</i> , 2003, 12, 228-236.	7.6	54
99	Molecular properties of the putative nitrogen sensor PII from <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2003, 33, 353-360.	5.7	81
100	Conformational Changes in the Ca ²⁺ -regulatory Region from Soybean Calcium-dependent Protein Kinase- β . <i>Journal of Biological Chemistry</i> , 2003, 278, 43764-43769.	3.4	8
101	Solution structures of the cytoplasmic tail complex from platelet integrin α IIb- and β 3-subunits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 5878-5883.	7.1	101
102	Steady-State Fluorescence Spectroscopy. , 2002, 173, 075-087.		3
103	Comparative modeling studies of the calmodulin-like domain of calcium-dependent protein kinase from soybean. , 2000, 39, 343-357.		17
104	Tryptophan fluorescence of calmodulin binding domain peptides interacting with calmodulin containing unnatural methionine analogues. <i>Protein Engineering, Design and Selection</i> , 2000, 13, 59-66.	2.1	38
105	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
106	Structural Genomics. , 0, , 273-295.		0