

Karan Uppal

List of Publications by Citations

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107
papers

3,022
citations

32
h-index

52
g-index

118
ext. papers

3,998
ext. citations

6.2
avg, IF

5.23
L-index

#	Paper	IF	Citations
107	xMSanalyzer: automated pipeline for improved feature detection and downstream analysis of large-scale, non-targeted metabolomics data. <i>BMC Bioinformatics</i> , 2013 , 14, 15	3.6	201
106	xMSannotator: An R Package for Network-Based Annotation of High-Resolution Metabolomics Data. <i>Analytical Chemistry</i> , 2017 , 89, 1063-1067	7.8	155
105	The Gene Expression Barcode: leveraging public data repositories to begin cataloging the human and murine transcriptomes. <i>Nucleic Acids Research</i> , 2011 , 39, D1011-5	20.1	143
104	Computational Metabolomics: A Framework for the Million Metabolome. <i>Chemical Research in Toxicology</i> , 2016 , 29, 1956-1975	4	130
103	Reference Standardization for Mass Spectrometry and High-resolution Metabolomics Applications to Exposome Research. <i>Toxicological Sciences</i> , 2015 , 148, 531-43	4.4	123
102	Plasma metabolomics in human pulmonary tuberculosis disease: a pilot study. <i>PLoS ONE</i> , 2014 , 9, e108854	3.7	98
101	Serum metabolomics of slow vs. rapid motor progression Parkinson's disease: a pilot study. <i>PLoS ONE</i> , 2013 , 8, e77629	3.7	87
100	High-resolution mapping of h1 linker histone variants in embryonic stem cells. <i>PLoS Genetics</i> , 2013 , 9, e1003417	6	83
99	M3. Topological Analyses of Metabolomic Data to Identify Markers of Early Psychosis and Disease Biotypes. <i>Schizophrenia Bulletin</i> , 2017 , 43, S211-S212	1.3	78
98	Metabolome-wide association study of neovascular age-related macular degeneration. <i>PLoS ONE</i> , 2013 , 8, e72737	3.7	78
97	xMWAS: a data-driven integration and differential network analysis tool. <i>Bioinformatics</i> , 2018 , 34, 701-702	7.2	77
96	Metabolomics of ADSOL (AS-1) red blood cell storage. <i>Transfusion Medicine Reviews</i> , 2014 , 28, 41-55	7.4	68
95	High-resolution metabolomics of occupational exposure to trichloroethylene. <i>International Journal of Epidemiology</i> , 2016 , 45, 1517-1527	7.8	68
94	Correlation of the lung microbiota with metabolic profiles in bronchoalveolar lavage fluid in HIV infection. <i>Microbiome</i> , 2016 , 4, 3	16.6	62
93	Metabolic pathways of lung inflammation revealed by high-resolution metabolomics (HRM) of H1N1 influenza virus infection in mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 311, R906-R916	3.2	61
92	Molecular Transducers of Physical Activity Consortium (MoTrPAC): Mapping the Dynamic Responses to Exercise. <i>Cell</i> , 2020 , 181, 1464-1474	56.2	51
91	Novel metabolic markers for the risk of diabetes development in American Indians. <i>Diabetes Care</i> , 2015 , 38, 220-7	14.6	49

90	Perturbations of the arginine metabolome following exposures to traffic-related air pollution in a panel of commuters with and without asthma. <i>Environment International</i> , 2019 , 127, 503-513	12.9	48
89	Metabolomic assessment of exposure to near-highway ultrafine particles. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2019 , 29, 469-483	6.7	46
88	Reference Standardization for Quantification and Harmonization of Large-Scale Metabolomics. <i>Analytical Chemistry</i> , 2020 , 92, 8836-8844	7.8	44
87	Transcriptome-metabolome wide association study (TMWAS) of maneb and paraquat neurotoxicity reveals network level interactions in toxicologic mechanism. <i>Toxicology Reports</i> , 2014 , 1, 435-444	4.8	42
86	Western diet induces colonic nitroergic myenteric neuropathy and dysmotility in mice via saturated fatty acid- and lipopolysaccharide-induced TLR4 signalling. <i>Journal of Physiology</i> , 2017 , 595, 1831-1846	3.9	41
85	Metabolome-Wide Association Study of Primary Open Angle Glaucoma 2015 , 56, 5020-8		41
84	Metabolomics profile comparisons of irradiated and nonirradiated stored donor red blood cells. <i>Transfusion</i> , 2015 , 55, 544-52	2.9	39
83	High-Resolution Metabolomics Assessment of Military Personnel: Evaluating Analytical Strategies for Chemical Detection. <i>Journal of Occupational and Environmental Medicine</i> , 2016 , 58, S53-61	2	39
82	Detection of differentially methylated gene promoters in failing and nonfailing human left ventricle myocardium using computation analysis. <i>Physiological Genomics</i> , 2013 , 45, 597-605	3.6	39
81	MetabNet: An R Package for Metabolic Association Analysis of High-Resolution Metabolomics Data. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 87	5.8	38
80	Maternal serum metabolome and traffic-related air pollution exposure in pregnancy. <i>Environment International</i> , 2019 , 130, 104872	12.9	37
79	High-resolution metabolomics to discover potential parasite-specific biomarkers in a Plasmodium falciparum erythrocytic stage culture system. <i>Malaria Journal</i> , 2015 , 14, 122	3.6	37
78	Metabolome-wide association study of phenylalanine in plasma of common marmosets. <i>Amino Acids</i> , 2015 , 47, 589-601	3.5	36
77	Disturbed flow induces systemic changes in metabolites in mouse plasma: a metabolomics study using ApoE ^{0/0} mice with partial carotid ligation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015 , 308, R62-72	3.2	35
76	Mitochondrial metabolomics using high-resolution Fourier-transform mass spectrometry. <i>Methods in Molecular Biology</i> , 2014 , 1198, 43-73	1.4	34
75	High-Resolution Metabolomics for Nutrition and Health Assessment of Armed Forces Personnel. <i>Journal of Occupational and Environmental Medicine</i> , 2016 , 58, S80-8	2	32
74	Mitochondrial network responses in oxidative physiology and disease. <i>Free Radical Biology and Medicine</i> , 2018 , 116, 31-40	7.8	31
73	Plasma metabolomics in adults with cystic fibrosis during a pulmonary exacerbation: A pilot randomized study of high-dose vitamin D administration. <i>Metabolism: Clinical and Experimental</i> , 2017 , 70, 31-41	12.7	30

72	Selenium Supplementation Alters Hepatic Energy and Fatty Acid Metabolism in Mice. <i>Journal of Nutrition</i> , 2018 , 148, 675-684	4.1	30
71	Deployment-Associated Exposure Surveillance With High-Resolution Metabolomics. <i>Journal of Occupational and Environmental Medicine</i> , 2016 , 58, S12-21	2	30
70	Particulate metal exposures induce plasma metabolome changes in a commuter panel study. <i>PLoS ONE</i> , 2018 , 13, e0203468	3.7	28
69	Arginine and Carnitine Metabolites Are Altered in Diabetic Retinopathy 2019 , 60, 3119-3126		27
68	Prenatal Exposure to Perfluoroalkyl Substances Associated With Increased Susceptibility to Liver Injury in Children. <i>Hepatology</i> , 2020 , 72, 1758-1770	11.2	27
67	Pilot Metabolome-Wide Association Study of Benzo(a)pyrene in Serum From Military Personnel. <i>Journal of Occupational and Environmental Medicine</i> , 2016 , 58, S44-52	2	26
66	Low-dose cadmium disrupts mitochondrial citric acid cycle and lipid metabolism in mouse lung. <i>Free Radical Biology and Medicine</i> , 2019 , 131, 209-217	7.8	26
65	Metabolomic profiles of plasma, exhaled breath condensate, and saliva are correlated with potential for air toxics detection. <i>Journal of Breath Research</i> , 2017 , 12, 016008	3.1	24
64	High-resolution plasma metabolomics analysis to detect Mycobacterium tuberculosis-associated metabolites that distinguish active pulmonary tuberculosis in humans. <i>PLoS ONE</i> , 2018 , 13, e0205398	3.7	24
63	Distinct amino acid and lipid perturbations characterize acute versus chronic malaria. <i>JCI Insight</i> , 2019 , 4,	9.9	23
62	Metabolic Pathways and Networks Associated With Tobacco Use in Military Personnel. <i>Journal of Occupational and Environmental Medicine</i> , 2016 , 58, S111-6	2	21
61	The Carnitine Shuttle Pathway is Altered in Patients With Neovascular Age-Related Macular Degeneration 2018 , 59, 4978-4985		21
60	Characterization of plasma thiol redox potential in a common marmoset model of aging. <i>Redox Biology</i> , 2013 , 1, 387-93	11.3	20
59	Metabolic Characterization of the Common Marmoset (<i>Callithrix jacchus</i>). <i>PLoS ONE</i> , 2015 , 10, e0142916	3.7	20
58	Myeloperoxidase oxidation of methionine associates with early cystic fibrosis lung disease. <i>European Respiratory Journal</i> , 2018 , 52,	13.6	20
57	Mitochondria in precision medicine; linking bioenergetics and metabolomics in platelets. <i>Redox Biology</i> , 2019 , 22, 101165	11.3	19
56	Plasma metabolomics reveals membrane lipids, aspartate/asparagine and nucleotide metabolism pathway differences associated with chloroquine resistance in <i>Plasmodium vivax</i> malaria. <i>PLoS ONE</i> , 2017 , 12, e0182819	3.7	17
55	Local false discovery rate estimation using feature reliability in LC/MS metabolomics data. <i>Scientific Reports</i> , 2015 , 5, 17221	4.9	17

54	Metabolic profiles of biological aging in American Indians: the Strong Heart Family Study. <i>Aging</i> , 2014 , 6, 176-86	5.6	17
53	Defective metabolic programming impairs early neuronal morphogenesis in neural cultures and an organoid model of Leigh syndrome. <i>Nature Communications</i> , 2021 , 12, 1929	17.4	17
52	Untargeted metabolomics reveals multiple metabolites influencing smoking-related DNA methylation. <i>Epigenomics</i> , 2018 , 10, 379-393	4.4	16
51	Low-dose cadmium potentiates lung inflammatory response to 2009 pandemic H1N1 influenza virus in mice. <i>Environment International</i> , 2019 , 127, 720-729	12.9	13
50	Selenium supplementation prevents metabolic and transcriptomic responses to cadmium in mouse lung. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018 , 1862, 2417-2426	4	13
49	Comparative transcriptomics and metabolomics in a rhesus macaque drug administration study. <i>Frontiers in Cell and Developmental Biology</i> , 2014 , 2, 54	5.7	12
48	Metabolic Profiles of Obesity in American Indians: The Strong Heart Family Study. <i>PLoS ONE</i> , 2016 , 11, e0159548	3.7	12
47	Metabolomics of fescue toxicosis in grazing beef steers. <i>Food and Chemical Toxicology</i> , 2017 , 105, 285-297	4.7	11
46	Phytochelatin database: a resource for phytochelatin complexes of nutritional and environmental metals. <i>Database: the Journal of Biological Databases and Curation</i> , 2019 , 2019,	5	10
45	Cardiovascular Risk and Resilience Among Black Adults: Rationale and Design of the MECA Study. <i>Journal of the American Heart Association</i> , 2020 , 9, e015247	6	9
44	Putrescine as indicator of manganese neurotoxicity: Dose-response study in human SH-SY5Y cells. <i>Food and Chemical Toxicology</i> , 2018 , 116, 272-280	4.7	9
43	Transcriptome Analysis Reveals Distinct Responses to Physiologic Toxic Manganese Exposure in Human Neuroblastoma Cells. <i>Frontiers in Genetics</i> , 2019 , 10, 676	4.5	9
42	Addressing the batch effect issue for LC/MS metabolomics data in data preprocessing. <i>Scientific Reports</i> , 2020 , 10, 13856	4.9	9
41	Metabolic Consequences of Chronic Alcohol Abuse in Non-Smokers: A Pilot Study. <i>PLoS ONE</i> , 2015 , 10, e0129570	3.7	8
40	Plasma Metabolomic Signatures of Chronic Obstructive Pulmonary Disease and the Impact of Genetic Variants on Phenotype-Driven Modules. <i>Network and Systems Medicine</i> , 2020 , 3, 159-181	4	8
39	Untargeted high-resolution plasma metabolomic profiling predicts outcomes in patients with coronary artery disease. <i>PLoS ONE</i> , 2020 , 15, e0237579	3.7	8
38	Metabolomic Responses to Manganese Dose in SH-SY5Y Human Neuroblastoma Cells. <i>Toxicological Sciences</i> , 2019 , 169, 84-94	4.4	7
37	Microbial metabolite delta-valerobetaine is a diet-dependent obesogen.. <i>Nature Metabolism</i> , 2021 , 3, 1694-1705	14.6	7

36	Untargeted metabolomics reveal dysregulations in sugar, methionine, and tyrosine pathways in the prodromal state of AD. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2020 , 12, e12064	5.2	7
35	Benzo[a]pyrene Perturbs Mitochondrial and Amino Acid Metabolism in Lung Epithelial Cells and Has Similar Correlations With Metabolic Changes in Human Serum. <i>Journal of Occupational and Environmental Medicine</i> , 2019 , 61 Suppl 12, S73-S81	2	7
34	A scalable workflow to characterize the human exposome. <i>Nature Communications</i> , 2021 , 12, 5575	17.4	6
33	Untargeted Metabolomics Screen of Mid-pregnancy Maternal Serum and Autism in Offspring. <i>Autism Research</i> , 2020 , 13, 1258-1269	5.1	5
32	Metabolomics and adductomics of newborn bloodspots to retrospectively assess the early-life exposome. <i>Current Opinion in Pediatrics</i> , 2020 , 32, 300-307	3.2	5
31	Metabolome-Wide Association Study of Deployment to Balad, Iraq or Bagram, Afghanistan. <i>Journal of Occupational and Environmental Medicine</i> , 2019 , 61 Suppl 12, S25-S34	2	5
30	A precision medicine approach to defining the impact of doxorubicin on the bioenergetic-metabolite interactome in human platelets. <i>Redox Biology</i> , 2020 , 28, 101311	11.3	5
29	Distribution of phytochelatins, metal-binding compounds, in plant foods: A survey of commonly consumed fruits, vegetables, grains and legumes. <i>Food Chemistry</i> , 2021 , 339, 128051	8.5	5
28	N8-Acetylspermidine: A Polyamine Biomarker in Ischemic Cardiomyopathy With Reduced Ejection Fraction. <i>Journal of the American Heart Association</i> , 2020 , 9, e016055	6	4
27	CERC: an interactive content extraction, recognition, and construction tool for clinical and biomedical text. <i>BMC Medical Informatics and Decision Making</i> , 2020 , 20, 306	3.6	4
26	Metabolomic Associations with Serum Bone Turnover Markers. <i>Nutrients</i> , 2020 , 12,	6.7	4
25	Hepatic fat is a stronger correlate of key clinical and molecular abnormalities than visceral and abdominal subcutaneous fat in youth. <i>BMJ Open Diabetes Research and Care</i> , 2020 , 8,	4.5	4
24	Integrative Network Analysis Linking Clinical Outcomes With Environmental Exposures and Molecular Variations in Service Personnel Deployed to Balad and Bagram. <i>Journal of Occupational and Environmental Medicine</i> , 2019 , 61 Suppl 12, S65-S72	2	4
23	Associations of Benzo(ghi)perylene and Heptachlorodibenzo-p-dioxin in Serum of Service Personnel Deployed to Balad, Iraq, and Bagram, Afghanistan Correlates With Perturbed Amino Acid Metabolism in Human Lung Fibroblasts. <i>Journal of Occupational and Environmental Medicine</i> , 2019 , 61 Suppl 12, S35-S44	2	4
22	Lipidome signatures of metastasis in a transgenic mouse model of sonic hedgehog medulloblastoma. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 7017-7027	4.4	3
21	Environmental Chemicals Altered in Association With Deployment for High Risk Areas. <i>Journal of Occupational and Environmental Medicine</i> , 2019 , 61 Suppl 12, S15-S24	2	3
20	Advances in Comprehensive Exposure Assessment: Opportunities for the US Military. <i>Journal of Occupational and Environmental Medicine</i> , 2019 , 61 Suppl 12, S5-S14	2	3
19	Use of Biomarkers to Assess Environmental Exposures and Health Outcomes in Deployed Troops. <i>Journal of Occupational and Environmental Medicine</i> , 2019 , 61 Suppl 12, S1-S4	2	3

18	A metabolomic study of cervical dystonia. <i>Parkinsonism and Related Disorders</i> , 2021 , 82, 98-103	3.6	3
17	An atlas of metallome and metabolome interactions and associations with incident diabetes in the Strong Heart Family Study. <i>Environment International</i> , 2021 , 157, 106810	12.9	3
16	Plasma Metabolomics of Common Marmosets (<i>Callithrix jacchus</i>) to Evaluate Diet and Feeding Husbandry. <i>Journal of the American Association for Laboratory Animal Science</i> , 2016 , 55, 137-46	1.3	2
15	Analysis of Postdeployment Serum Samples Identifies Potential Biomarkers of Exposure to Burn Pits and Other Environmental Hazards. <i>Journal of Occupational and Environmental Medicine</i> , 2019 , 61 Suppl 12, S45-S54	2	2
14	Time-course metabolomic analysis of manganese toxicity reveals biomarkers of oxidative stress and amino acid metabolism as early cellular targets. <i>Free Radical Biology and Medicine</i> , 2018 , 128, S83	7.8	2
13	Nonmonotonic response of type 2 diabetes by low concentration organochlorine pesticide mixture: Findings from multi-omics in zebrafish. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125956	12.8	2
12	Child serum metabolome and traffic-related air pollution exposure in pregnancy. <i>Environmental Research</i> , 2022 , 203, 111907	7.9	2
11	Metabolomics profiling of tobacco exposure in children with cystic fibrosis. <i>Journal of Cystic Fibrosis</i> , 2020 , 19, 791-800	4.1	1
10	Central Mitochondrial Signaling Mechanisms in Response to Environmental Agents 2018 , 639-654		1
9	xMWAS: an R package for data-driven integration and differential network analysis		1
8	Metabolomics Analysis of Aspirin [®] Effects in Human Colon Tissue and Associations with Adenoma Risk. <i>Cancer Prevention Research</i> , 2020 , 13, 863-876	3.2	1
7	Metabolomics analysis of maternal serum exposed to high air pollution during pregnancy and risk of autism spectrum disorder in offspring. <i>Environmental Research</i> , 2021 , 196, 110823	7.9	1
6	Clinical recovery of <i>Macaca fascicularis</i> infected with <i>Plasmodium knowlesi</i> .. <i>Malaria Journal</i> , 2021 , 20, 486	3.6	1
5	Multomics Analysis of Structural Magnetic Resonance Imaging of the Brain and Cerebrospinal Fluid Metabolomics in Cognitively Normal and Impaired Adults.. <i>Frontiers in Aging Neuroscience</i> , 2021 , 13, 796067	5.2	0
4	Sphinganine is associated with 24-h MAP in the non-sleepy with OSA.. <i>Metabolomics</i> , 2022 , 18, 23	4.7	0
3	Mechanisms integrating lifelong exposure and health 2020 , 405-426		
2	Models of Metabolomic Networks 2021 , 134-142		
1	Plasma Metabolic Phenotypes of HPV-Associated versus Smoking-Associated Head and Neck Cancer and Patient Survival. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2021 , 30, 1858-1866	4	

