

Rui Wang-Sattler

List of Publications by Citations

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77
papers

6,167
citations

36
h-index

78
g-index

81
ext. papers

7,271
ext. citations

8.2
avg. IF

4.55
L-index

#	Paper	IF	Citations
77	Identification of serum metabolites associated with risk of type 2 diabetes using a targeted metabolomic approach. <i>Diabetes</i> , 2013 , 62, 639-48	0.9	634
76	A genome-wide perspective of genetic variation in human metabolism. <i>Nature Genetics</i> , 2010 , 42, 137-41	16.3	515
75	Meta-analysis of 28,141 individuals identifies common variants within five new loci that influence uric acid concentrations. <i>PLoS Genetics</i> , 2009 , 5, e1000504	6	495
74	Novel biomarkers for pre-diabetes identified by metabolomics. <i>Molecular Systems Biology</i> , 2012 , 8, 615	12.2	468
73	Epigenetic Signatures of Cigarette Smoking. <i>Circulation: Cardiovascular Genetics</i> , 2016 , 9, 436-447		442
72	Differences between human plasma and serum metabolite profiles. <i>PLoS ONE</i> , 2011 , 6, e21230	3.7	271
71	Discovery of sexual dimorphisms in metabolic and genetic biomarkers. <i>PLoS Genetics</i> , 2011 , 7, e10022156		256
70	Identification of proliferative and mature β cells in the islets of Langerhans. <i>Nature</i> , 2016 , 535, 430-4	50.4	210
69	Human serum metabolic profiles are age dependent. <i>Aging Cell</i> , 2012 , 11, 960-7	9.9	193
68	Quantitative trait loci for refractoriness of <i>Anopheles gambiae</i> to <i>Plasmodium cynomolgi</i> B. <i>Science</i> , 1997 , 276, 425-8	33.3	163
67	Serum branched-chain amino acid to histidine ratio: a novel metabolomic biomarker of knee osteoarthritis. <i>Annals of the Rheumatic Diseases</i> , 2010 , 69, 1227-31	2.4	120
66	Genetic loci affecting resistance to human malaria parasites in a West African mosquito vector population. <i>Science</i> , 2002 , 298, 213-6	33.3	112
65	Schizophrenia shows a unique metabolomics signature in plasma. <i>Translational Psychiatry</i> , 2012 , 2, e149	8.6	111
64	In vivo identification of novel regulators and conserved pathways of phagocytosis in <i>A. gambiae</i> . <i>Immunity</i> , 2005 , 23, 65-73	32.3	109
63	Childhood obesity is associated with changes in the serum metabolite profile. <i>Obesity Facts</i> , 2012 , 5, 660-70	5.1	106
62	Mouse phenotyping. <i>Methods</i> , 2011 , 53, 120-35	4.6	103
61	Reliability of serum metabolite concentrations over a 4-month period using a targeted metabolomic approach. <i>PLoS ONE</i> , 2011 , 6, e21103	3.7	99

60	Metabolic profiling reveals distinct variations linked to nicotine consumption in humans--first results from the KORA study. <i>PLoS ONE</i> , 2008 , 3, e3863	3.7	92
59	Serum metabolite concentrations and decreased GFR in the general population. <i>American Journal of Kidney Diseases</i> , 2012 , 60, 197-206	7.4	84
58	Metabolites associate with kidney function decline and incident chronic kidney disease in the general population. <i>Nephrology Dialysis Transplantation</i> , 2013 , 28, 2131-8	4.3	84
57	Dissecting the genetic basis of resistance to malaria parasites in <i>Anopheles gambiae</i> . <i>Science</i> , 2009 , 326, 147-50	33.3	82
56	Effects of smoking and smoking cessation on human serum metabolite profile: results from the KORA cohort study. <i>BMC Medicine</i> , 2013 , 11, 60	11.4	77
55	Body fat free mass is associated with the serum metabolite profile in a population-based study. <i>PLoS ONE</i> , 2012 , 7, e40009	3.7	77
54	Effects of metformin on metabolite profiles and LDL cholesterol in patients with type 2 diabetes. <i>Diabetes Care</i> , 2015 , 38, 1858-67	14.6	76
53	Pre-analytical sample quality: metabolite ratios as an intrinsic marker for prolonged room temperature exposure of serum samples. <i>PLoS ONE</i> , 2015 , 10, e0121495	3.7	65
52	Metabolomic identification of a novel pathway of blood pressure regulation involving hexadecanedioate. <i>Hypertension</i> , 2015 , 66, 422-9	8.5	63
51	Alcohol-induced metabolomic differences in humans. <i>Translational Psychiatry</i> , 2013 , 3, e276	8.6	61
50	When genetic distance matters: measuring genetic differentiation at microsatellite loci in whole-genome scans of recent and incipient mosquito species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 10769-74	11.5	60
49	Integrative genetic and metabolite profiling analysis suggests altered phosphatidylcholine metabolism in asthma. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2013 , 68, 629-36	9.3	57
48	Non-targeted metabolomics combined with genetic analyses identifies bile acid synthesis and phospholipid metabolism as being associated with incident type 2 diabetes. <i>Diabetologia</i> , 2016 , 59, 2114-24	19.3	54
47	Changes in the serum metabolite profile in obese children with weight loss. <i>European Journal of Nutrition</i> , 2015 , 54, 173-81	5.2	51
46	Preservation of metabolic flexibility in skeletal muscle by a combined use of n-3 PUFA and rosiglitazone in dietary obese mice. <i>PLoS ONE</i> , 2012 , 7, e43764	3.7	51
45	Association of Atopic Dermatitis with Cardiovascular Risk Factors and Diseases. <i>Journal of Investigative Dermatology</i> , 2017 , 137, 1074-1081	4.3	48
44	Random Survival Forest in practice: a method for modelling complex metabolomics data in time to event analysis. <i>International Journal of Epidemiology</i> , 2016 , 45, 1406-1420	7.8	42
43	Unmasking differential effects of rosiglitazone and pioglitazone in the combination treatment with n-3 fatty acids in mice fed a high-fat diet. <i>PLoS ONE</i> , 2011 , 6, e27126	3.7	39

42	Stability of targeted metabolite profiles of urine samples under different storage conditions. <i>Metabolomics</i> , 2017 , 13, 4	4.7	36
41	Microsatellite markers and genotyping procedures for <i>Anopheles gambiae</i> . <i>Parasitology Today</i> , 1999 , 15, 33-7		36
40	Mosaic genome architecture of the <i>Anopheles gambiae</i> species complex. <i>PLoS ONE</i> , 2007 , 2, e1249	3.7	36
39	Plasma and Serum Metabolite Association Networks: Comparability within and between Studies Using NMR and MS Profiling. <i>Journal of Proteome Research</i> , 2017 , 16, 2547-2559	5.6	30
38	Metformin Effect on Nontargeted Metabolite Profiles in Patients With Type 2 Diabetes and in Multiple Murine Tissues. <i>Diabetes</i> , 2016 , 65, 3776-3785	0.9	30
37	Increased amino acids levels and the risk of developing of hypertriglyceridemia in a 7-year follow-up. <i>Journal of Endocrinological Investigation</i> , 2014 , 37, 369-74	5.2	30
36	Improvement of myocardial infarction risk prediction via inflammation-associated metabolite biomarkers. <i>Heart</i> , 2017 , 103, 1278-1285	5.1	27
35	Mapping the genetic architecture of gene regulation in whole blood. <i>PLoS ONE</i> , 2014 , 9, e93844	3.7	27
34	Ageing Investigation Using Two-Time-Point Metabolomics Data from KORA and CARLA Studies. <i>Metabolites</i> , 2019 , 9,	5.6	22
33	12-months metabolic changes among gender dysphoric individuals under cross-sex hormone treatment: a targeted metabolomics study. <i>Scientific Reports</i> , 2016 , 6, 37005	4.9	22
32	Metabolite ratios as potential biomarkers for type 2 diabetes: a DIRECT study. <i>Diabetologia</i> , 2018 , 61, 117-129	10.3	21
31	Short-term NO ₂ exposure is associated with long-chain fatty acids in prospective cohorts from Augsburg, Germany: results from an analysis of 138 metabolites and three exposures. <i>International Journal of Epidemiology</i> , 2016 , 45, 1528-1538	7.8	20
30	Comparison of metabolic profiles of acutely ill and short-term weight recovered patients with anorexia nervosa reveals alterations of 33 out of 163 metabolites. <i>Journal of Psychiatric Research</i> , 2012 , 46, 1600-9	5.2	19
29	Changes in metabolite profiles caused by genetically determined obesity in mice. <i>Metabolomics</i> , 2014 , 10, 461-472	4.7	18
28	Metabolomics reveals determinants of weight loss during lifestyle intervention in obese children. <i>Metabolomics</i> , 2013 , 9, 1157-1167	4.7	17
27	dbDEPC 2.0: updated database of differentially expressed proteins in human cancers. <i>Nucleic Acids Research</i> , 2012 , 40, D964-71	20.1	17
26	Identification of putative biomarkers for type 2 diabetes using metabolomics in the Korea Association REsource (KARE) cohort. <i>Metabolomics</i> , 2016 , 12, 1	4.7	15
25	Nonadditive Effects of Genes in Human Metabolomics. <i>Genetics</i> , 2015 , 200, 707-18	4	14

24	Interrogating causal pathways linking genetic variants, small molecule metabolites, and circulating lipids. <i>Genome Medicine</i> , 2014 , 6, 25	14.4	14
23	Effect of Insulin Resistance on Monounsaturated Fatty Acid Levels: A Multi-cohort Non-targeted Metabolomics and Mendelian Randomization Study. <i>PLoS Genetics</i> , 2016 , 12, e1006379	6	14
22	Differences in twenty-four-hour profiles of blue-light exposure between day and night shifts in female medical staff. <i>Science of the Total Environment</i> , 2019 , 653, 1025-1033	10.2	14
21	Automated workflow-based exploitation of pathway databases provides new insights into genetic associations of metabolite profiles. <i>BMC Genomics</i> , 2013 , 14, 865	4.5	13
20	Night Shift Work Affects Urine Metabolite Profiles of Nurses with Early Chronotype. <i>Metabolites</i> , 2018 , 8,	5.6	10
19	Human gene expression sensitivity according to large scale meta-analysis. <i>BMC Bioinformatics</i> , 2009 , 10 Suppl 1, S56	3.6	10
18	Circulating Metabolites Differentiate Acute Ischemic Stroke from Stroke Mimics. <i>Annals of Neurology</i> , 2020 , 88, 736-746	9.4	10
17	Diagnosing fatty liver disease: a comparative evaluation of metabolic markers, phenotypes, genotypes and established biomarkers. <i>PLoS ONE</i> , 2013 , 8, e76813	3.7	8
16	Dilution correction for dynamically influenced urinary analyte data. <i>Analytica Chimica Acta</i> , 2018 , 1032, 18-31	6.6	7
15	Ldlr and ApoE mice better mimic the human metabolite signature of increased carotid intima media thickness compared to other animal models of cardiovascular disease. <i>Atherosclerosis</i> , 2018 , 276, 140-147 ³¹	7	7
14	PLA1A2 platelet polymorphism predicts mortality in prediabetic subjects of the population based KORA S4-Cohort. <i>Cardiovascular Diabetology</i> , 2014 , 13, 90	8.7	7
13	Silencing of genes and alleles by RNAi in <i>Anopheles gambiae</i> . <i>Methods in Molecular Biology</i> , 2013 , 923, 161-76	1.4	7
12	A network-based conditional genetic association analysis of the human metabolome. <i>GigaScience</i> , 2018 , 7,	7.6	7
11	Response to Comment on Xu et al. Effects of Metformin on Metabolite Profiles and LDL Cholesterol in Patients With Type 2 Diabetes. <i>Diabetes Care</i> 2015;38:1858-1867. <i>Diabetes Care</i> , 2015 , 38, e216-7	14.6	6
10	Machine Learning Approaches Reveal Metabolic Signatures of Incident Chronic Kidney Disease in Individuals With Prediabetes and Type 2 Diabetes. <i>Diabetes</i> , 2020 , 69, 2756-2765	0.9	5
9	Cell type specificity of signaling: view from membrane receptors distribution and their downstream transduction networks. <i>Protein and Cell</i> , 2012 , 3, 701-13	7.2	4
8	Nonperturbative corrections to perturbative quark potentials. <i>Physical Review D</i> , 1994 , 49, 3474-3479	4.9	4
7	Metabolomic Signature of Coronary Artery Disease in Type 2 Diabetes Mellitus. <i>International Journal of Endocrinology</i> , 2017 , 2017, 7938216	2.7	3

6	Specific Metabolic Markers Are Associated with Future Waist-Gaining Phenotype in Women. <i>PLoS ONE</i> , 2016 , 11, e0157733	3.7	3
5	Metabolomics reveals a link between homocysteine and lipid metabolism and leukocyte telomere length: the ENGAGE consortium. <i>Scientific Reports</i> , 2019 , 9, 11623	4.9	2
4	Response to Comment on Adam et al. Metformin Effect on Nontargeted Metabolite Profiles in Patients With Type 2 Diabetes and in Multiple Murine Tissues. <i>Diabetes</i> 2016;65:3776-3785. <i>Diabetes</i> , 2017 , 66, e3-e4	0.9	1
3	Integrated personalized diabetes management goes Europe: A multi-disciplinary approach to innovating type 2 diabetes care in Europe. <i>Primary Care Diabetes</i> , 2021 , 15, 360-364	2.4	1
2	Night work, chronotype and cortisol at awakening in female hospital employees.. <i>Scientific Reports</i> , 2022 , 12, 6525	4.9	1
1	pulver: an R package for parallel ultra-rapid p-value computation for linear regression interaction terms. <i>BMC Bioinformatics</i> , 2017 , 18, 429	3.6	0