Karsten Suhre

List of Publications by Year
in descending order

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271 papers	22,697 citations	9786 73 h-index	11607 135 g-index
311 all docs	311 docs citations	311 times ranked	32018 citing authors

#	Article	IF	Citations
1	Genomic atlas of the human plasma proteome. Nature, 2018, 558, 73-79.	27.8	1,180
2	An atlas of genetic influences on human blood metabolites. Nature Genetics, 2014, 46, 543-550.	21.4	1,084
3	Human metabolic individuality in biomedical and pharmaceutical research. Nature, 2011, 477, 54-60.	27.8	916
4	Genetics Meets Metabolomics: A Genome-Wide Association Study of Metabolite Profiles in Human Serum. PLoS Genetics, 2008, 4, e1000282.	3.5	660
5	ElNemo: a normal mode web server for protein movement analysis and the generation of templates for molecular replacement. Nucleic Acids Research, 2004, 32, W610-W614.	14.5	620
6	A genome-wide perspective of genetic variation in human metabolism. Nature Genetics, 2010, 42, 137-141.	21.4	618
7	Novel biomarkers for preâ€diabetes identified by metabolomics. Molecular Systems Biology, 2012, 8, 615.	7.2	605
8	Metabolic Footprint of Diabetes: A Multiplatform Metabolomics Study in an Epidemiological Setting. PLoS ONE, 2010, 5, e13953.	2.5	501
9	Connecting genetic risk to disease end points through the human blood plasma proteome. Nature Communications, 2017, 8, 14357.	12.8	460
10	Metabolomics enables precision medicine: â€œA White Paper, Community Perspectiveâ€• Metabolomics, 2016, 12, 149.	3.0	434
11	Metabolic network failures in Alzheimer's disease: A biochemical roadÂmap. Alzheimer's and Dementia, 2017, 13, 965-984.	0.8	362
12	Biomarkers for Type 2 Diabetes and Impaired Fasting Glucose Using a Nontargeted Metabolomics Approach. Diabetes, 2013, 62, 4270-4276.	0.6	356
13	Differences between Human Plasma and Serum Metabolite Profiles. PLoS ONE, 2011, 6, e21230.	2.5	350
14	Discovery of Sexual Dimorphisms in Metabolic and Genetic Biomarkers. PLoS Genetics, 2011, 7, e1002215.	3.5	328
15	3DCoffee: Combining Protein Sequences and Structures within Multiple Sequence Alignments. Journal of Molecular Biology, 2004, 340, 385-395.	4.2	302
16	SNiPA: an interactive, genetic variant-centered annotation browser. Bioinformatics, 2015, 31, 1334-1336.	4.1	273
17	Human serum metabolic profiles are age dependent. Aging Cell, 2012, 11, 960-967.	6.7	271
18	The dynamic range of the human metabolome revealed by challenges. FASEB Journal, 2012, 26, 2607-2619.	0.5	268

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19	Gaussian graphical modeling reconstructs pathway reactions from high-throughput metabolomics data. BMC Systems Biology, 2011, 5, 21.	3.0	262
20	FusionDB: a database for in-depth analysis of prokaryotic gene fusion events. Nucleic Acids Research, 2004, 32, 273D-276.	14.5	245
21	Procedure for tissue sample preparation and metabolite extraction for high-throughput targeted metabolomics. Metabolomics, 2012, 8, 133-142.	3.0	245
22	Metabolomic markers reveal novel pathways of ageing and early development in human populations. International Journal of Epidemiology, 2013, 42, 1111-1119.	1.9	241
23	A genome-wide association study of metabolic traits in human urine. Nature Genetics, 2011, 43, 565-569.	21.4	224
24	Genomeâ€•wide mapping of plasma protein QTLs identifies putatively causal genes and pathways for cardiovascular disease. Nature Communications, 2018, 9, 3268.	12.8	221
25	Gender-specific pathway differences in the human serum metabolome. Metabolomics, 2015, 11, 1815-1833.	3.0	218
26	Genetics meets proteomics: perspectives for large population-based studies. Nature Reviews Genetics, 2021, 22, 19-37.	16.3	196
27	Overview of the Meso-NH model version 5.4 and its applications. Geoscientific Model Development, 2018, 11, 1929-1969.	3.6	194
28	MassTRIX: mass translator into pathways. Nucleic Acids Research, 2008, 36, W481-W484.	14.5	190
29	Genome-wide association study identifies novel genetic variants contributing to variation in blood metabolite levels. Nature Communications, 2015, 6, 7208.	12.8	178
30	Mining the Unknown: A Systems Approach to Metabolite Identification Combining Genetic and Metabolic Information. PLoS Genetics, 2012, 8, e1003005.	3.5	170
31	Epigenetics meets metabolomics: an epigenome-wide association study with blood serum metabolic traits. Human Molecular Genetics, 2014, 23, 534-545.	2.9	169
32	Reductive Genome Evolution from the Mother of Rickettsia. PLoS Genetics, 2007, 3, e14.	3.5	167
33	Genetic variation in metabolic phenotypes: study designs and applications. Nature Reviews Genetics, 2012, 13, 759-769.	16.3	165
34	Tropheryma whipplei Twist: A Human Pathogenic Actinobacteria With a Reduced Genome. Genome Research, 2003, 13, 1800-1809.	5.5	161
35	A Metabolome-Wide Association Study of Kidney Function and Disease in the General Population. Journal of the American Society of Nephrology: JASN, 2016, 27, 1175-1188.	6.1	159
36	Mimivirus and the emerging concept of â€œgiantâ€•virus. Virus Research, 2006, 117, 133-144.	2.2	157

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37	3DCoffee@igs: a web server for combining sequences and structures into a multiple sequence alignment. Nucleic Acids Research, 2004, 32, W37-W40.	14.5	143
38	Genomic Correlates of Hyperthermostability, an Update. Journal of Biological Chemistry, 2003, 278, 17198-17202.	3.4	142
39	Childhood Obesity Is Associated with Changes in the Serum Metabolite Profile. Obesity Facts, 2012, 5, 660-670.	3.4	141
40	Characterization of missing values in untargeted MS-based metabolomics data and evaluation of missing data handling strategies. Metabolomics, 2018, 14, 128.	3.0	138
41	Associations of circulating plasma microRNAs with age, body mass index and sex in a population-based study. BMC Medical Genomics, 2015, 8, 61.	1.5	133
42	A Genome-Wide Metabolic QTL Analysis in Europeans Implicates Two Loci Shaped by Recent Positive Selection. PLoS Genetics, 2011, 7, e1002270.	3.5	132
43	Mouse phenotyping. Methods, 2011, 53, 120-135.	3.8	128
44	On the hypothesis-free testing of metabolite ratios in genome-wide and metabolome-wide association studies. BMC Bioinformatics, 2012, 13, 120.	2.6	121
45	Bioinformatics Analysis of Targeted Metabolomicsâ€"Uncovering Old and New Tales of Diabetic Mice under Medication. Endocrinology, 2008, 149, 3478-3489.	2.8	120
46	Set1 is required for meiotic S-phase onset, double-strand break formation and middle gene expression. EMBO Journal, 2004, 23, 1957-1967.	7.8	119
47	Genetics of human metabolism: an update. Human Molecular Genetics, 2015, 24, R93-R101.	2.9	117
48	Metabolites associate with kidney function decline and incident chronic kidney disease in the general population. Nephrology Dialysis Transplantation, 2013, 28, 2131-2138.	0.7	116
49	Leveraging Cross-Species Transcription Factor Binding Site Patterns: From Diabetes Risk Loci to Disease Mechanisms. Cell, 2014, 156, 343-358.	28.9	113
50	Targeted metabolomics profiles are strongly correlated with nutritional patterns in women. Metabolomics, 2013, 9, 506-514.	3.0	110
51	Epigenetic associations of type 2 diabetes and BMI in an Arab population. Clinical Epigenetics, 2016, 8, 13.	4.1	110
52	Serum Metabolite Concentrations and Decreased GFR in the General Population. American Journal of Kidney Diseases, 2012, 60, 197-206.	1.9	108
53	NORMA: a tool for flexible fitting of high-resolution protein structures into low-resolution electron-microscopy-derived density maps. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 1098-1100.	2.5	107
54	Genome-wide association study of caffeine metabolites provides new insights to caffeine metabolism and dietary caffeine-consumption behavior. Human Molecular Genetics, 2016, 25, ddw334.	2.9	107

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55	Metabolic Profiling Reveals Distinct Variations Linked to Nicotine Consumption in Humans â€" First Results from the KORA Study. PLoS ONE, 2008, 3, e3863.	2.5	107
56	Metabolomics platforms for genome wide association studiesâ€"linking the genome to the metabolome. Current Opinion in Biotechnology, 2013, 24, 39-47.	6.6	105
57	Effects of smoking and smoking cessation on human serum metabolite profile: results from the KORA cohort study. BMC Medicine, 2013, 11, 60.	5.5	103
58	Comprehensive transcriptomic and proteomic characterization of human mesenchymal stem cells reveals source specific cellular markers. Scientific Reports, 2016, 6, 21507.	3.3	101
59	Genetic studies of urinary metabolites illuminate mechanisms of detoxification and excretion in humans. Nature Genetics, 2020, 52, 167-176.	21.4	101
60	On the potential of normal-mode analysis for solving difficult molecular-replacement problems. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 796-799.	2.5	99
61	The Human Blood Metabolome-Transcriptome Interface. PLoS Genetics, 2015, 11, e1005274.	3.5	99
62	Effects of Metformin on Metabolite Profiles and LDL Cholesterol in Patients With Type 2 Diabetes. Diabetes Care, 2015, 38, 1858-1867.	8.6	97
63	Body Fat Free Mass Is Associated with the Serum Metabolite Profile in a Population-Based Study. PLoS ONE, 2012, 7, e40009.	2.5	95
64	A pilot study comparing the metabolic profiles of elite-level athletes from different sporting disciplines. Sports Medicine - Open, 2018, 4, 2.	3.1	94
65	Metabolomic Identification of a Novel Pathway of Blood Pressure Regulation Involving Hexadecanedioate. Hypertension, 2015, 66, 422-429.	2.7	90
66	ProGeM: a framework for the prioritization of candidate causal genes at molecular quantitative trait loci. Nucleic Acids Research, 2019, 47, e3-e3.	14.5	90
67	Indigenous Arabs are descendants of the earliest split from ancient Eurasian populations. Genome Research, 2016, 26, 151-162.	5.5	89
68	CaspR: a web server for automated molecular replacement using homology modelling. Nucleic Acids Research, 2004, 32, W606-W609.	14.5	87
69	Genus-wide sequencing supports a two-locus model for sex-determination in Phoenix. Nature Communications, 2018, 9, 3969.	12.8	86
70	Gene and Genome Duplication in Acanthamoeba polyphaga Mimivirus. Journal of Virology, 2005, 79, 14095-14101.	3.4	85
71	Metabolic profiling in diabetes. Journal of Endocrinology, 2014, 221, R75-R85.	2.6	83
72	A first genetic map of date palm (Phoenix dactylifera) reveals long-range genome structure conservation in the palms. BMC Genomics, 2014, 15, 285.	2.8	83

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73	Genome-Wide Association Study with Targeted and Non-targeted NMR Metabolomics Identifies 15 Novel Loci of Urinary Human Metabolic Individuality. PLoS Genetics, 2015, 11, e1005487.	3.5	83
74	High TCR diversity ensures optimal function andhomeostasis of Foxp3⁺ regulatory Tcells. European Journal of Immunology, 2011, 41, 3101-3113.	2.9	82
75	1,5-Anhydroglucitol in Saliva Is a Noninvasive Marker of Short-Term Glycemic Control. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E479-E483.	3.6	82
76	MassTRIX Reloaded: Combined Analysis and Visualization of Transcriptome and Metabolome Data. PLoS ONE, 2012, 7, e39860.	2.5	82
77	ORILAM, a three-moment lognormal aerosol scheme for mesoscale atmospheric model: Online coupling into the Meso-NH-C model and validation on the Escompte campaign. Journal of Geophysical Research, 2005, 110, .	3.3	81
78	A systems view of type 2 diabetes-associated metabolic perturbations in saliva, blood and urine at different timescales of glycaemic control. Diabetologia, 2015, 58, 1855-1867.	6.3	80
79	Mimivirus gene promoters exhibit an unprecedented conservation among all eukaryotes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14689-14693.	7.1	79
80	Alcohol-induced metabolomic differences in humans. Translational Psychiatry, 2013, 3, e276-e276.	4.8	79
81	Association of DNA methylation with age, gender, and smoking in an Arab population. Clinical Epigenetics, 2015, 7, 6.	4.1	78
82	MIPS: curated databases and comprehensive secondary data resources in 2010. Nucleic Acids Research, 2011, 39, D220-D224.	14.5	77
83	A systems biology approach using metabolomic data reveals genes and pathways interacting to modulate divergent growth in cattle. BMC Genomics, 2013, 14, 798.	2.8	76
84	Questionnaire-based self-reported nutrition habits associate with serum metabolism as revealed by quantitative targeted metabolomics. European Journal of Epidemiology, 2011, 26, 145-156.	5.7	74
85	Metabolomics approach reveals effects of antihypertensives and lipid-lowering drugs on the human metabolism. European Journal of Epidemiology, 2014, 29, 325-336.	5.7	72
86	Metabolomic profiles indicate distinct physiological pathways affected by two loci with major divergent effect on Bos taurus growth and lipid deposition. Physiological Genomics, 2010, 42A, 79-88.	2.3	70
87	Integrative genetic and metabolite profiling analysis suggests altered phosphatidylcholine metabolism in asthma. Allergy: European Journal of Allergy and Clinical Immunology, 2013, 68, 629-636.	5.7	70
88	Multi-omic signature of body weight change: results from a population-based cohort study. BMC Medicine, 2015, 13, 48.	5.5	69
89	Effect of induced hypoglycemia on inflammation and oxidative stress in type 2 diabetes and control subjects. Scientific Reports, 2020, 10, 4750.	3.3	69
90	Genetic Influences on Metabolite Levels: A Comparison across Metabolomic Platforms. PLoS ONE, 2016, 11, e0153672.	2.5	69

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91	Development of a reduced chemical scheme for use in mesoscale meteorological models. Atmospheric Environment, 2000, 34, 2633-2644.	4.1	68
92	Circulating Protein Signatures and Causal Candidates for Type 2 Diabetes. Diabetes, 2020, 69, 1843-1853.	0.6	64
93	Metabolic switch during adipogenesis: From branched chain amino acid catabolism to lipid synthesis. Archives of Biochemistry and Biophysics, 2016, 589, 93-107.	3.0	63
94	Whole-exome sequencing identifies common and rare variant metabolic QTLs in a Middle Eastern population. Nature Communications, 2018, 9, 333.	12.8	63
95	Systems Biology Analysis Merging Phenotype, Metabolomic and Genomic Data Identifies Non-SMC Condensin I Complex, Subunit G (NCAPG) and Cellular Maintenance Processes as Major Contributors to Genetic Variability in Bovine Feed Efficiency. PLoS ONE, 2015, 10, e0124574.	2.5	62
96	Internal and external mixing in atmospheric aerosols by coagulation: Impact on the optical and hygroscopic properties of the sulphate-soot system. Atmospheric Environment, 1997, 31, 1393-1402.	4.1	60
97	metaP-Server: A Web-Based Metabolomics Data Analysis Tool. Journal of Biomedicine and Biotechnology, 2011, 2011, 1-7.	3.0	60
98	Phydbac "Gene Function Predictor": a gene annotation tool based on genomic context analysis. BMC Bioinformatics, 2005, 6, 247.	2.6	59
99	The Saliva Metabolome in Association to Oral Health Status. Journal of Dental Research, 2019, 98, 642-651.	5.2	59
100	Long term conservation of human metabolic phenotypes and link to heritability. Metabolomics, 2014, 10, 1005-1017.	3.0	58
101	A Genome-Wide Survey of Date Palm Cultivars Supports Two Major Subpopulations inPhoenix dactylifera. G3: Genes, Genomes, Genetics, 2015, 5, 1429-1438.	1.8	58
102	Urine Metabolite Profiles Predictive of Human Kidney Allograft Status. Journal of the American Society of Nephrology: JASN, 2016, 27, 626-636.	6.1	58
103	Epigenetics meets proteomics in an epigenome-wide association study with circulating blood plasma protein traits. Nature Communications, 2020, 11, 15.	12.8	57
104	Structural genomics of highly conserved microbial genes of unknown function in search of new antibacterial targets. Journal of Structural and Functional Genomics, 2003, 4, 141-157.	1.2	56
105	Accelerated lipid catabolism and autophagy are cancer survival mechanisms under inhibited glutaminolysis. Cancer Letters, 2018, 430, 133-147.	7.2	54
106	Physico-chemical modeling of the First Aerosol Characterization Experiment (ACE 1) Lagrangian B: 1. A moving column approach. Journal of Geophysical Research, 1998, 103, 16433-16455.	3.3	53
107	Annotation of bacterial genomes using improved phylogenomic profiles. Bioinformatics, 2003, 19, i105-i107.	4.1	53
108	GFscore:Â A General Nonlinear Consensus Scoring Function for High-Throughput Docking. Journal of Chemical Information and Modeling, 2006, 46, 1704-1712.	5.4	52

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109	Variation in the human lipidome associated with coffee consumption as revealed by quantitative targeted metabolomics. Molecular Nutrition and Food Research, 2009, 53, 1357-1365.	3.3	52
110	Metabolite profiling reveals new insights into the regulation of serum urate in humans. Metabolomics, 2014, 10, 141-151.	3.0	51
111	Evidence for Stress-like Alterations in the HPA-Axis in Women Taking Oral Contraceptives. Scientific Reports, 2017, 7, 14111.	3.3	51
112	Revealing the role of the human blood plasma proteome in obesity using genetic drivers. Nature Communications, 2021, 12, 1279.	12.8	50
113	Metformin Effect on Nontargeted Metabolite Profiles in Patients With Type 2 Diabetes and in Multiple Murine Tissues. Diabetes, 2016, 65, 3776-3785.	0.6	49
114	Ozone-rich transients in the upper equatorial Atlantic troposphere. Nature, 1997, 388, 661-663.	27.8	48
115	Changing Metabolic Signatures of Amino Acids and Lipids During the Prediabetic Period in a Pig Model With Impaired Incretin Function and Reduced Î²-Cell Mass. Diabetes, 2012, 61, 2166-2175.	0.6	47
116	Biochemical insights from population studies with genetics and metabolomics. Archives of Biochemistry and Biophysics, 2016, 589, 168-176.	3.0	46
117	Complementarity of SOMAscan to LC-MS/MS and RNA-seq for quantitative profiling of human embryonic and mesenchymal stem cells. Journal of Proteomics, 2017, 150, 86-97.	2.4	46
118	Mesenchymal Cell Interaction with Ovarian Cancer Cells Triggers Pro-Metastatic Properties. PLoS ONE, 2012, 7, e38340.	2.5	44
119	Estimation of prokaryote genomic DNA G+C content by sequencing universally conserved genes. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 1025-1029.	1.7	43
120	Cohort profile: Greifswald approach to individualized medicine (GANI_MED). Journal of Translational Medicine, 2014, 12, 144.	4.4	43
121	Metabolomics of dates (Phoenix dactylifera) reveals a highly dynamic ripening process accounting for major variation in fruit composition. BMC Plant Biology, 2015, 15, 291.	3.6	41
122	Network-Based Approach for Analyzing Intra- and Interfluid Metabolite Associations in Human Blood, Urine, and Saliva. Journal of Proteome Research, 2015, 14, 1183-1194.	3.7	40
123	Defining the genetic control of human blood plasma N-glycome using genome-wide association study. Human Molecular Genetics, 2019, 28, 2062-2077.	2.9	40
124	Advancing Cancer Treatment by Targeting Glutamine Metabolismâ€"A Roadmap. Cancers, 2022, 14, 553.	3.7	40
125	Improvement of myocardial infarction risk prediction via inflammation-associated metabolite biomarkers. Heart, 2017, 103, 1278-1285.	2.9	38
126	Metabolomic profiles in individuals with negative affectivity and social inhibition: A population-based study of Type D personality. Psychoneuroendocrinology, 2013, 38, 1299-1309.	2.7	37

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127	Whole genome sequencing in the Middle Eastern Qatari population identifies genetic associations with 45 clinically relevant traits. Nature Communications, 2021, 12, 1250.	12.8	37
128	Epigenetic scores for the circulating proteome as tools for disease prediction. ELife, 2022, 11, .	6.0	37
129	Increased amino acids levels and the risk of developing of hypertriglyceridemia in a 7-year follow-up. Journal of Endocrinological Investigation, 2014, 37, 369-374.	3.3	36
130	Inference of Gene Function Based on Gene Fusion Events. Methods in Molecular Biology, 2007, 396, 31-41.	0.9	35
131	Metformin Supports the Antidiabetic Effect of a Sodium Glucose Cotransporter 2 Inhibitor by Suppressing Endogenous Glucose Production in Diabetic Mice. Diabetes, 2015, 64, 284-290.	0.6	35
132	Metabolic signatures differentiate ovarian from colon cancer cell lines. Journal of Translational Medicine, 2015, 13, 223.	4.4	34
133	Deciphering the Plasma Proteome of Type 2 Diabetes. Diabetes, 2020, 69, 2766-2778.	0.6	34
134	Role of Medium- and Short-Chain L-3-Hydroxyacyl-CoA Dehydrogenase in the Regulation of Body Weight and Thermogenesis. Endocrinology, 2011, 152, 4641-4651.	2.8	33
135	Metabolic GWAS of elite athletes reveals novel genetically-influenced metabolites associated with athletic performance. Scientific Reports, 2019, 9, 19889.	3.3	33
136	Machine Learning Approaches Reveal Metabolic Signatures of Incident Chronic Kidney Disease in Individuals With Prediabetes and Type 2 Diabetes. Diabetes, 2020, 69, 2756-2765.	0.6	33
137	Metabolomics profiling reveals novel markers for leukocyte telomere length. Aging, 2016, 8, 77-86.	3.1	33
138	Conformational flexibility ofMycobacterium tuberculosisthioredoxin reductase: crystal structure and normal-mode analysis. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 1603-1611.	2.5	32
139	Metabolite ratios as potential biomarkers for type 2 diabetes: a DIRECT study. Diabetologia, 2018, 61, 117-129.	6.3	32
140	Ethnic and gender differences in advanced glycation end products measured by skin auto-fluorescence. Dermato-Endocrinology, 2013, 5, 325-330.	1.8	31
141	Mapping the Genetic Architecture of Gene Regulation in Whole Blood. PLoS ONE, 2014, 9, e93844.	2.5	31
142	Alterations in Lipid and Inositol Metabolisms in Two Dopaminergic Disorders. PLoS ONE, 2016, 11, e0147129.	2.5	31
143	From Discovery to Translation: Characterization of C-Mannosyltryptophan and Pseudouridine as Markers of Kidney Function. Scientific Reports, 2017, 7, 17400.	3.3	31
144	Type 2 diabetes is associated with postprandial amino acid measures. Archives of Biochemistry and Biophysics, 2016, 589, 138-144.	3.0	30

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145	Deep molecular phenotypes link complex disorders and physiological insult to CpG methylation. Human Molecular Genetics, 2018, 27, 1106-1121.	2.9	30
146	Metabolomics Identifies Novel Blood Biomarkers of Pulmonary Function and COPD in the General Population. Metabolites, 2019, 9, 61.	2.9	30
147	Genome-Wide Association Study Reveals a Novel Association Between MYBPC3 Gene Polymorphism, Endurance Athlete Status, Aerobic Capacity and Steroid Metabolism. Frontiers in Genetics, 2020, 11, 595.	2.3	30
148	The association between various smoking behaviors, cotinine biomarkers and skin autofluorescence, a marker for advanced glycation end product accumulation. PLoS ONE, 2017, 12, e0179330.	2.5	30
149	Phydbac2: improved inference of gene function using interactive phylogenomic profiling and chromosomal location analysis. Nucleic Acids Research, 2004, 32, W336-W339.	14.5	29
150	Identification of a Potential Biomarker for FABP4 Inhibition: The Power of Lipidomics in Preclinical Drug Testing. Journal of Biomolecular Screening, 2011, 16, 467-475.	2.6	29
151	Metabolomics of Dynamic Changes in Insulin Resistance Before and After Exercise in PCOS. Frontiers in Endocrinology, 2019, 10, 116.	3.5	29
152	Metabolic and Metabo-Clinical Signatures of Type 2 Diabetes, Obesity, Retinopathy, and Dyslipidemia. Diabetes, 2022, 71, 184-205.	0.6	29
153	Qatar genome: Insights on genomics from the Middle East. Human Mutation, 2022, 43, 499-510.	2.5	29
154	Genetic associations with lipoprotein subfractions provide information on their biological nature. Human Molecular Genetics, 2012, 21, 1433-1443.	2.9	28
155	Mesenchymal cell interaction with ovarian cancer cells induces a background dependent pro-metastatic transcriptomic profile. Journal of Translational Medicine, 2014, 12, 59.	4.4	28
156	Measurement of 1,5-anhydroglucitol in blood and saliva: from non-targeted metabolomics to biochemical assay. Journal of Translational Medicine, 2016, 14, 140.	4.4	28
157	Large Scale Metabolic Profiling identifies Novel Steroids linked to Rheumatoid Arthritis. Scientific Reports, 2017, 7, 9137.	3.3	28
158	Metabolomics profiling of xenobiotics in elite athletes: relevance to supplement consumption. Journal of the International Society of Sports Nutrition, 2018, 15, 48.	3.9	28
159	Metabolomics of Ramadan fasting: an opportunity for the controlled study of physiological responses to food intake. Journal of Translational Medicine, 2014, 12, 161.	4.4	27
160	Novel genetic associations with serum level metabolites identified by phenotype set enrichment analyses. Human Molecular Genetics, 2014, 23, 5847-5857.	2.9	26
161	DI-ICR-FT-MS-based high-throughput deep metabotyping: a case study of the Caenorhabditis elegansâ€“Pseudomonas aeruginosa infection model. Analytical and Bioanalytical Chemistry, 2015, 407, 1059-1073.	3.7	26
162	Nesting of colon and ovarian cancer cells in the endothelial niche is associated with alterations in glycan and lipid metabolism. Scientific Reports, 2017, 7, 39999.	3.3	26

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163	Novel subpopulations in date palm (Phoenix dactylifera) identified by population-wide organellar genome sequencing. BMC Genomics, 2019, 20, 498.	2.8	26
164	Determination of strongly overlapping signaling activity from microarray data. BMC Bioinformatics, 2006, 7, 99.	2.6	25
165	Comparison of metabolic profiles of acutely ill and short-term weight recovered patients with anorexia nervosa reveals alterations of 33 out of 163 metabolites. Journal of Psychiatric Research, 2012, 46, 1600-1609.	3.1	25
166	Urinary cell transcriptomics and acute rejection in human kidney allografts. JCI Insight, 2020, 5, .	5.0	25
167	Bayesian Independent Component Analysis Recovers Pathway Signatures from Blood Metabolomics Data. Journal of Proteome Research, 2012, 11, 4120-4131.	3.7	24
168	<scp>PSEA</scp>: Phenotype Set Enrichment Analysisâ€"A New Method for Analysis of Multiple Phenotypes. Genetic Epidemiology, 2012, 36, 244-252.	1.3	24
169	Isolation, characterization, and bioinformatic analysis of calmodulin-binding protein cmbB reveals a novel tandem IP22 repeat common to many Dictyostelium and Mimivirus proteins. Biochemical and Biophysical Research Communications, 2006, 346, 879-888.	2.1	23
170	Identification and MS-assisted interpretation of genetically influenced NMR signals in human plasma. Genome Medicine, 2013, 5, 13.	8.2	23
171	Identification of putative biomarkers for type 2 diabetes using metabolomics in the Korea Association REsource (KARE) cohort. Metabolomics, 2016, 12, 1.	3.0	23
172	Unraveling the functional role of the orphan solute carrier, SLC22A24 in the transport of steroid conjugates through metabolomic and genome-wide association studies. PLoS Genetics, 2019, 15, e1008208.	3.5	23
173	Metabolic profiling of elite athletes with different cardiovascular demand. Scandinavian Journal of Medicine and Science in Sports, 2019, 29, 933-943.	2.9	23
174	Characteristics of mutants designed to incorporate a new ion pair into the structure of a cold adapted subtilisin-like serine proteinase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 512-518.	2.3	21
175	Associations between thyroid hormones and serum metabolite profiles in an euthyroid population. Metabolomics, 2014, 10, 152-164.	3.0	21
176	Phenotype-driven identification of modules in a hierarchical map of multifluid metabolic correlations. Npj Systems Biology and Applications, 2017, 3, 28.	3.0	21
177	Association of childhood traumatization and neuropsychiatric outcomes with altered plasma micro RNA-levels. Neuropsychopharmacology, 2019, 44, 2030-2037.	5.4	21
178	Atlantic subtropical potential vorticity barrier as seen by Measurements of Ozone by Airbus In-Service Aircraft (MOZAIC) flights. Journal of Geophysical Research, 1998, 103, 25681-25693.	3.3	20
179	Metabolic and proteomic signatures of hypoglycaemia in type 2 diabetes. Diabetes, Obesity and Metabolism, 2019, 21, 909-919.	4.4	20
180	A population study of clinically actionable genetic variation affecting drug response from the Middle East. Npj Genomic Medicine, 2022, 7, 10.	3.8	20

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181	Mimivirus TyrRS: preliminary structural and functional characterization of the first amino-acyl tRNA synthetase found in a virus. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 212-215.	0.7	19
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