RenÃ© Pool

List of Publications by Year
in descending order

71 papers	5,197 citations	117453 34 h-index	106150 65 g-index
83 all docs	83 docs citations	83 times ranked	11721 citing authors

#	Article	IF	Citations
1	Genome-wide study for circulating metabolites identifies 62 loci and reveals novel systemic effects of LPA. Nature Communications, 2016, 7, 11122.	5.8	576
2	Disease variants alter transcription factor levels and methylation of their binding sites. Nature Genetics, 2017, 49, 131-138.	9.4	390
3	Identification of context-dependent expression quantitative trait loci in whole blood. Nature Genetics, 2017, 49, 139-145.	9.4	363
4	Genome Analyses of >200,000 Individuals Identify 58 Loci for Chronic Inflammation and Highlight Pathways that Link Inflammation and Complex Disorders. American Journal of Human Genetics, 2018, 103, 691-706.	2.6	326
5	Genetic and environmental influences interact with age and sex in shaping the human methylome. Nature Communications, 2016, 7, 11115.	5.8	299
6	Mendelian randomization integrating GWAS and eQTL data reveals genetic determinants of complex and clinical traits. Nature Communications, 2019, 10, 3300.	5.8	193
7	The Adult Netherlands Twin Register: Twenty-Five Years of Survey and Biological Data Collection. Twin Research and Human Genetics, 2013, 16, 271-281.	0.3	186
8	Genome-wide association study identifies novel genetic variants contributing to variation in blood metabolite levels. Nature Communications, 2015, 6, 7208.	5.8	178
9	Molecular Simulations of Interacting Nanocrystals. Nano Letters, 2008, 8, 2930-2934.	4.5	165
10	DNA Methylation Analysis Identifies Loci for Blood Pressure Regulation. American Journal of Human Genetics, 2017, 101, 888-902.	2.6	154
11	Charge Group Partitioning in Biomolecular Simulation. Journal of Computational Biology, 2013, 20, 188-198.	0.8	145
12	Circulating metabolites and general cognitive ability and dementia: Evidence from 11 cohort studies. Alzheimer's and Dementia, 2018, 14, 707-722.	0.4	143
13	Metabolomics Profile in Depression: A Pooled Analysis of 230 Metabolic Markers in 5283 Cases With Depression and 10,145 Controls. Biological Psychiatry, 2020, 87, 409-418.	0.7	129
14	Improving Phenotypic Prediction by Combining Genetic and Epigenetic Associations. American Journal of Human Genetics, 2015, 97, 75-85.	2.6	116
15	The Netherlands Twin Register: Longitudinal Research Based on Twin and Twin-Family Designs. Twin Research and Human Genetics, 2019, 22, 623-636.	0.3	112
16	Effects of Metformin on Metabolite Profiles and LDL Cholesterol in Patients With Type 2 Diabetes. Diabetes Care, 2015, 38, 1858-1867.	4.3	97
17	Differences in Cross-Link Chemistry between Rigid and Flexible Dithiol Molecules Revealed by Optical Studies of CdTe Quantum Dots. Journal of Physical Chemistry C, 2007, 111, 11208-11215.	1.5	77
18	Accurate Free Energies of Micelle Formationâ€. Journal of Physical Chemistry B, 2005, 109, 6650-6657.	1.2	74

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19	Genetic Relationship between Schizophrenia and Nicotine Dependence. Scientific Reports, 2016, 6, 25671.	1.6	67
20	Refined mapping of autoimmune disease associated genetic variants with gene expression suggests an important role for non-coding RNAs. Journal of Autoimmunity, 2016, 68, 62-74.	3.0	64
21	Heritability estimates for 361 blood metabolites across 40 genome-wide association studies. Nature Communications, 2020, 11, 39.	5.8	64
22	Accelerated ray tracing for radiotherapy dose calculations on a GPU. Medical Physics, 2009, 36, 4095-4102.	1.6	59
23	Integration of epidemiologic, pharmacologic, genetic and gut microbiome data in a drugâ€“metabolite atlas. Nature Medicine, 2020, 26, 110-117.	15.2	54
24	Prediction of an Autocatalytic Replication Mechanism for Micelle Formation. Physical Review Letters, 2006, 97, 018302.	2.9	52
25	Solvent Effects in the Adsorption of Alkyl Thiols on Gold Structures:â€‰ A Molecular Simulation Study. Journal of Physical Chemistry C, 2007, 111, 10201-10212.	1.5	51
26	Obsessiveâ€“compulsive symptoms in a large population-based twin-family sample are predicted by clinically based polygenic scores and by genome-wide SNPs. Translational Psychiatry, 2016, 6, e731-e731.	2.4	50
27	Epigenome-wide Association Study of Attention-Deficit/Hyperactivity Disorder Symptoms in Adults. Biological Psychiatry, 2019, 86, 599-607.	0.7	47
28	Sampling the kinetic pathways of a micelle fusion and fission transition. Journal of Chemical Physics, 2007, 126, 244703.	1.2	43
29	Integration of targeted metabolomics and transcriptomics identifies deregulation of phosphatidylcholine metabolism in Huntingtonâ€™s disease peripheral blood samples. Metabolomics, 2016, 12, 137.	1.4	43
30	Tobacco smoking is associated with DNA methylation of diabetes susceptibility genes. Diabetologia, 2016, 59, 998-1006.	2.9	43
31	Discovery of biochemical biomarkers for aggression: A role for metabolomics in psychiatry. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2016, 171, 719-732.	1.1	42
32	Genome-Wide Meta-Analysis of Cotinine Levels in Cigarette Smokers Identifies Locus at 4q13.2. Scientific Reports, 2016, 6, 20092.	1.6	42
33	Large-scale plasma metabolome analysis reveals alterations in HDL metabolism in migraine. Neurology, 2019, 92, e1899-e1911.	1.5	42
34	Coarse-grained versus atomistic simulations: realistic interaction free energies for real proteins. Bioinformatics, 2014, 30, 326-334.	1.8	40
35	GWIS: Genome-Wide Inferred Statistics for Functions of Multiple Phenotypes. American Journal of Human Genetics, 2016, 99, 917-927.	2.6	40
36	Genomics of human aggression. Psychiatric Genetics, 2019, 29, 170-190.	0.6	39

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37	Genome-wide study of DNA methylation shows alterations in metabolic, inflammatory, and cholesterol pathways in ALS. Science Translational Medicine, 2022, 14, eabj0264.	5.8	38
38	Implementation and implications for polygenic risk scores in healthcare. Human Genomics, 2021, 15, 46.	1.4	36
39	Can purely repulsive soft potentials predict micelle formation correctly?. Physical Chemistry Chemical Physics, 2006, 8, 941-948.	1.3	34
40	Metabolite ratios as potential biomarkers for type 2 diabetes: a DIRECT study. Diabetologia, 2018, 61, 117-129.	2.9	32
41	A characterization of cis- and trans-heritability of RNA-Seq-based gene expression. European Journal of Human Genetics, 2020, 28, 253-263.	1.4	29
42	Comparison of HapMap and 1000 Genomes Reference Panels in a Large-Scale Genome-Wide Association Study. PLoS ONE, 2017, 12, e0167742.	1.1	29
43	Selective adsorption of alkyl thiols on gold in different geometries. Computer Physics Communications, 2007, 177, 154-157.	3.0	26
44	The influence of micelle formation on the stability of colloid surfactant mixtures. Physical Chemistry Chemical Physics, 2010, 12, 14789.	1.3	26
45	Pathways to smoking behaviours: biological insights from the Tobacco and Genetics Consortium meta-analysis. Molecular Psychiatry, 2017, 22, 82-88.	4.1	26
46	Heritability, SNP- and Gene-Based Analyses of Cannabis Use Initiation and Age at Onset. Behavior Genetics, 2015, 45, 503-513.	1.4	25
47	Towards Automated Binding Affinity Prediction Using an Iterative Linear Interaction Energy Approach. International Journal of Molecular Sciences, 2014, 15, 798-816.	1.8	21
48	DNA methylation signatures of aggression and closely related constructs: A meta-analysis of epigenome-wide studies across the lifespan. Molecular Psychiatry, 2021, 26, 2148-2162.	4.1	21
49	Urinary Amine and Organic Acid Metabolites Evaluated as Markers for Childhood Aggression: The ACTION Biomarker Study. Frontiers in Psychiatry, 2020, 11, 165.	1.3	19
50	Intelligence: shared genetic basis between Mendelian disorders and a polygenic trait. European Journal of Human Genetics, 2015, 23, 1378-1383.	1.4	16
51	Coarse-grained model for gold nanocrystals with an organic capping layer. Molecular Physics, 2007, 105, 3177-3184.	0.8	14
52	Familial Resemblance for Serum Metabolite Concentrations. Twin Research and Human Genetics, 2013, 16, 948-961.	0.3	14
53	Refining Attention-Deficit/Hyperactivity Disorder and Autism Spectrum Disorder Genetic Loci by Integrating Summary Data From Genome-wide Association, Gene Expression, and DNA Methylation Studies. Biological Psychiatry, 2020, 88, 470-479.	0.7	14
54	Investigating the relationships between unfavourable habitual sleep and metabolomic traits: evidence from multi-cohort multivariable regression and Mendelian randomization analyses. BMC Medicine, 2021, 19, 69.	2.3	14

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55	Predicting Complex Traits and Exposures From Polygenic Scores and Blood and Buccal DNA Methylation Profiles. Frontiers in Psychiatry, 2021, 12, 688464.	1.3	14
56	Metabolomics reveals a link between homocysteine and lipid metabolism and leukocyte telomere length: the ENGAGE consortium. Scientific Reports, 2019, 9, 11623.	1.6	13
57	Continuity of Genetic Risk for Aggressive Behavior Across the Life-Course. Behavior Genetics, 2021, 51, 592-606.	1.4	13
58	Independent position correction on tumor and lymph nodes; consequences for bladder cancer irradiation with two combined IMRT plans. Radiation Oncology, 2010, 5, 53.	1.2	12
59	DNA methylation in peripheral tissues and left-handedness. Scientific Reports, 2022, 12, 5606.	1.6	12
60	The effect of on-line position correction on the dose distribution in focal radiotherapy for bladder cancer. Radiation Oncology, 2009, 4, 38.	1.2	10
61	Occupational exposure to gases/fumes and mineral dust affect DNA methylation levels of genes regulating expression. Human Molecular Genetics, 2019, 28, 2477-2485.	1.4	9
62	Ketone body 3-hydroxybutyrate as a biomarker of aggression. Scientific Reports, 2021, 11, 5813.	1.6	9
63	Fat metabolism is associated with telomere length in six population-based studies. Human Molecular Genetics, 2022, 31, 1159-1170.	1.4	7
64	Heritability of Urinary Amines, Organic Acids, and Steroid Hormones in Children. Metabolites, 2022, 12, 474.	1.3	7
65	Mendelian and polygenic inheritance of intelligence: A common set of causal genes? Using next-generation sequencing to examine the effects of 168 intellectual disability genes on normal-range intelligence. Intelligence, 2015, 49, 10-22.	1.6	6
66	A Potential Role for the STXBP5-AS1 Gene in Adult ADHD Symptoms. Behavior Genetics, 2019, 49, 270-285.	1.4	6
67	Genetics and Not Shared Environment Explains Familial Resemblance in Adult Metabolomics Data. Twin Research and Human Genetics, 2020, 23, 145-155.	0.3	6
68	Genetic meta-analysis of twin birth weight shows high genetic correlation with singleton birth weight. Human Molecular Genetics, 2021, 30, 1894-1905.	1.4	6
69	The Weighting is the Hardest Part: On the Behavior of the Likelihood Ratio Test and the Score Test Under a Data-Driven Weighting Scheme in Sequenced Samples. Twin Research and Human Genetics, 2017, 20, 108-118.	0.3	5
70	Enabling grandâ€canonical Monte Carlo: Extending the flexibility of GROMACS through the GromPy python interface module. Journal of Computational Chemistry, 2012, 33, 1207-1214.	1.5	4
71	Familial Resemblance for Serum Metabolite Concentrations â€" Corrigendum. Twin Research and Human Genetics, 2013, 16, 1014-1014.	0.3	0