

Hooman Allayee

List of Publications by Year in descending order

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95
papers

15,847
citations

50276
46
h-index

42399
92
g-index

98
all docs

98
docs citations

98
times ranked

25150
citing authors

#	ARTICLE	IF	CITATIONS
1	Gut flora metabolism of phosphatidylcholine promotes cardiovascular disease. <i>Nature</i> , 2011, 472, 57-63.	27.8	4,238
2	Large-scale association analysis identifies 13 new susceptibility loci for coronary artery disease. <i>Nature Genetics</i> , 2011, 43, 333-338.	21.4	1,685
3	The Collaborative Cross, a community resource for the genetic analysis of complex traits. <i>Nature Genetics</i> , 2004, 36, 1133-1137.	21.4	1,034
4	Trimethylamine-N-Oxide, a Metabolite Associated with Atherosclerosis, Exhibits Complex Genetic and Dietary Regulation. <i>Cell Metabolism</i> , 2013, 17, 49-60.	16.2	794
5	Exome sequencing identifies rare LDLR and APOA5 alleles conferring risk for myocardial infarction. <i>Nature</i> , 2015, 518, 102-106.	27.8	581
6	Arachidonate 5-Lipoxygenase Promoter Genotype, Dietary Arachidonic Acid, and Atherosclerosis. <i>New England Journal of Medicine</i> , 2004, 350, 29-37.	27.0	571
7	An epigenetic clock analysis of race/ethnicity, sex, and coronary heart disease. <i>Genome Biology</i> , 2016, 17, 171.	8.8	535
8	Identification of ADAMTS7 as a novel locus for coronary atherosclerosis and association of ABO with myocardial infarction in the presence of coronary atherosclerosis: two genome-wide association studies. <i>Lancet</i> , The, 2011, 377, 383-392.	13.7	466
9	Relationship of Paraoxonase 1 (PON1) Gene Polymorphisms and Functional Activity With Systemic Oxidative Stress and Cardiovascular Risk. <i>JAMA - Journal of the American Medical Association</i> , 2008, 299, 1265.	7.4	463
10	Identification of 5-Lipoxygenase as a Major Gene Contributing to Atherosclerosis Susceptibility in Mice. <i>Circulation Research</i> , 2002, 91, 120-126.	4.5	387
11	Seventy-five genetic loci influencing the human red blood cell. <i>Nature</i> , 2012, 492, 369-375.	27.8	320
12	Trans-ancestry genome-wide association study identifies 12 genetic loci influencing blood pressure and implicates a role for DNA methylation. <i>Nature Genetics</i> , 2015, 47, 1282-1293.	21.4	294
13	Frequency of mononuclear diploid cardiomyocytes underlies natural variation in heart regeneration. <i>Nature Genetics</i> , 2017, 49, 1346-1353.	21.4	252
14	Influence of Leukotriene Pathway Polymorphisms on Response to Montelukast in Asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006, 173, 379-385.	5.6	225
15	Integrating genotypic and expression data in a segregating mouse population to identify 5-lipoxygenase as a susceptibility gene for obesity and bone traits. <i>Nature Genetics</i> , 2005, 37, 1224-1233.	21.4	210
16	Increased hepatic fat in overweight Hispanic youth influenced by interaction between genetic variation in PNPLA3 and high dietary carbohydrate and sugar consumption. <i>American Journal of Clinical Nutrition</i> , 2010, 92, 1522-1527.	4.7	175
17	Cognitive effects of estradiol after menopause. <i>Neurology</i> , 2016, 87, 699-708.	1.1	162
18	Clinical and Genetic Association of Serum Paraoxonase and Arylesterase Activities With Cardiovascular Risk. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 2803-2812.	2.4	153

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19	The Hybrid Mouse Diversity Panel: a resource for systems genetics analyses of metabolic and cardiovascular traits. <i>Journal of Lipid Research</i> , 2016, 57, 925-942.	4.2	143
20	Effect of Obesity on Clinical Presentation and Response to Treatment in Asthma. <i>Journal of Asthma</i> , 2006, 43, 553-558.	1.7	142
21	Hybrid mouse diversity panel: a panel of inbred mouse strains suitable for analysis of complex genetic traits. <i>Mammalian Genome</i> , 2012, 23, 680-692.	2.2	134
22	Untargeted metabolomics identifies trimethyllysine, a TMAO-producing nutrient precursor, as a predictor of incident cardiovascular disease risk. <i>JCI Insight</i> , 2018, 3, .	5.0	122
23	Comparative Genome-Wide Association Studies in Mice and Humans for Trimethylamine <i>N</i> -Oxide, a Proatherogenic Metabolite of Choline and L-Carnitine. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 1307-1313.	2.4	119
24	Genome-wide analysis highlights contribution of immune system pathways to the genetic architecture of asthma. <i>Nature Communications</i> , 2020, 11, 1776.	12.8	119
25	Genome Scan for Blood Pressure in Dutch Dyslipidemic Families Reveals Linkage to a Locus on Chromosome 4p. <i>Hypertension</i> , 2001, 38, 773-778.	2.7	116
26	Genome-wide analysis identifies novel susceptibility loci for myocardial infarction. <i>European Heart Journal</i> , 2021, 42, 919-933.	2.2	113
27	Genome-wide association study and targeted metabolomics identifies sex-specific association of CPS1 with coronary artery disease. <i>Nature Communications</i> , 2016, 7, 10558.	12.8	108
28	Effects of PNPLA3 on Liver Fat and Metabolic Profile in Hispanic Children and Adolescents. <i>Diabetes</i> , 2010, 59, 3127-3130.	0.6	100
29	Nutrigenomics, the Microbiome, and Gene-Environment Interactions: New Directions in Cardiovascular Disease Research, Prevention, and Treatment. <i>Circulation: Cardiovascular Genetics</i> , 2016, 9, 291-313.	5.1	99
30	5-Lipoxygenase and atherosclerosis. <i>Current Opinion in Lipidology</i> , 2003, 14, 447-457.	2.7	96
31	Lipoprotein(a) levels and long-term cardiovascular risk in the contemporary era of statin therapy. <i>Journal of Lipid Research</i> , 2010, 51, 3055-3061.	4.2	76
32	Apolipoprotein E4 is associated with improved cognitive function in Amazonian forager-horticulturalists with a high parasite burden. <i>FASEB Journal</i> , 2017, 31, 1508-1515.	0.5	73
33	Genome-Wide Association Study Identifies Nox3 as a Critical Gene for Susceptibility to Noise-Induced Hearing Loss. <i>PLoS Genetics</i> , 2015, 11, e1005094.	3.5	64
34	Toxicity of urban air pollution particulate matter in developing and adult mouse brain: Comparison of total and filter-eluted nanoparticles. <i>Environment International</i> , 2020, 136, 105510.	10.0	64
35	Genetically determined NLRP3 inflammasome activation associates with systemic inflammation and cardiovascular mortality. <i>European Heart Journal</i> , 2021, 42, 1742-1756.	2.2	63
36	Bile acids profile, histopathological indices and genetic variants for non-alcoholic fatty liver disease progression. <i>Metabolism: Clinical and Experimental</i> , 2021, 116, 154457.	3.4	62

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37	Costimulation of type-2 innate lymphoid cells by GTR promotes effector function and ameliorates type 2 diabetes. <i>Nature Communications</i> , 2019, 10, 713.	12.8	58
38	The Effect of Montelukast and Low-Dose Theophylline on Cardiovascular Disease Risk Factors in Asthmatics. <i>Chest</i> , 2007, 132, 868-874.	0.8	54
39	Common polymorphisms of ALOX5 and ALOX5AP and risk of coronary artery disease. <i>Human Genetics</i> , 2008, 123, 399-408.	3.8	54
40	Clinical and Genetic Association of Serum Ceruloplasmin With Cardiovascular Risk. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 516-522.	2.4	54
41	Polyunsaturated Fatty Acids and Cardiovascular Disease: Implications for Nutrigenetics. <i>Journal of Nutrigenetics and Nutrigenomics</i> , 2009, 2, 140-148.	1.3	53
42	Selected vitamin D metabolic gene variants and risk for autism spectrum disorder in the CHARGE Study. <i>Early Human Development</i> , 2015, 91, 483-489.	1.8	52
43	Ambient Air Pollution Is Associated With the Severity of Coronary Atherosclerosis and Incident Myocardial Infarction in Patients Undergoing Elective Cardiac Evaluation. <i>Journal of the American Heart Association</i> , 2016, 5, .	3.7	51
44	Loss of Cardioprotective Effects at the <i>ADAMTS7</i> Locus as a Result of Gene-Smoking Interactions. <i>Circulation</i> , 2017, 135, 2336-2353.	1.6	51
45	Identification of ALOX5 as a gene regulating adiposity and pancreatic function. <i>Diabetologia</i> , 2008, 51, 978-988.	6.3	49
46	Using Mice to Dissect Genetic Factors in Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2003, 23, 1501-1509.	2.4	48
47	Locus for Elevated Apolipoprotein B Levels on Chromosome 1p31 in Families With Familial Combined Hyperlipidemia. <i>Circulation Research</i> , 2002, 90, 926-931.	4.5	46
48	Nutrigenetic association of the 5-lipoxygenase gene with myocardial infarction. <i>American Journal of Clinical Nutrition</i> , 2008, 88, 934-940.	4.7	45
49	Association of serum HDL-cholesterol and apolipoprotein A1 levels with risk of severe SARS-CoV-2 infection. <i>Journal of Lipid Research</i> , 2021, 62, 100061.	4.2	44
50	Genetic contribution of the leukotriene pathway to coronary artery disease. <i>Human Genetics</i> , 2011, 129, 617-627.	3.8	42
51	Genetic Deficiency of Flavin-Containing Monooxygenase 3 (<i>Fmo3</i>) Protects Against Thrombosis but Has Only a Minor Effect on Plasma Lipid Levels”Brief Report. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 1045-1054.	2.4	41
52	Association of a Genetic Risk Score With Prevalent and Incident Myocardial Infarction in Subjects Undergoing Coronary Angiography. <i>Circulation: Cardiovascular Genetics</i> , 2012, 5, 441-449.	5.1	40
53	Contribution of Gut Bacteria to Lipid Levels. <i>Circulation Research</i> , 2015, 117, 750-754.	4.5	40
54	The Genetic Architecture of Coronary Artery Disease: Current Knowledge and Future Opportunities. <i>Current Atherosclerosis Reports</i> , 2017, 19, 6.	4.8	38

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55	Inflammatory Gene Variants in the Tsimane, an Indigenous Bolivian Population with a High Infectious Load. <i>Biodemography and Social Biology</i> , 2011, 57, 33-52.	1.0	37
56	A genome-wide set of congenic mouse strains derived from DBA/2J on a C57BL/6J background. <i>Genomics</i> , 2005, 86, 259-270.	2.9	36
57	Aspirin Hydrolysis in Plasma Is a Variable Function of Butyrylcholinesterase and Platelet-activating Factor Acetylhydrolase 1b2 (PAFAH1b2). <i>Journal of Biological Chemistry</i> , 2013, 288, 11940-11948.	3.4	34
58	ALOX5 gene variants affect eicosanoid production and response to fish oil supplementation. <i>Journal of Lipid Research</i> , 2011, 52, 991-1003.	4.2	31
59	Identification of a Novel Mucin Gene <i>HCG22</i> Associated With Steroid-Induced Ocular Hypertension. , 2015, 56, 2737.		28
60	Lower omental α -regulatory cell count is associated with higher fasting glucose and lower β -cell function in adults with obesity. <i>Obesity</i> , 2016, 24, 1274-1282.	3.0	28
61	APOE4 is associated with elevated blood lipids and lower levels of innate immune biomarkers in a tropical Amerindian subsistence population. <i>ELife</i> , 2021, 10, .	6.0	25
62	The Genetic Architecture of Noise-Induced Hearing Loss: Evidence for a Gene-by-Environment Interaction. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 3219-3228.	1.8	24
63	Adult mouse hippocampal transcriptome changes associated with long-term behavioral and metabolic effects of gestational air pollution toxicity. <i>Translational Psychiatry</i> , 2020, 10, 218.	4.8	23
64	Genome-wide and gene-centric analyses of circulating myeloperoxidase levels in the charge and care consortia. <i>Human Molecular Genetics</i> , 2013, 22, 3381-3393.	2.9	22
65	Association of Chromosome 9p21 With Subsequent Coronary Heart Disease Events. <i>Circulation Genomic and Precision Medicine</i> , 2019, 12, e002471.	3.6	22
66	Functional analysis of 5-lipoxygenase promoter repeat variants. <i>Human Molecular Genetics</i> , 2009, 18, 4521-4529.	2.9	21
67	The Genetic Landscape of Hematopoietic Stem Cell Frequency in Mice. <i>Stem Cell Reports</i> , 2015, 5, 125-138.	4.8	21
68	Exposure to Nanoscale Particulate Matter from Gestation to Adulthood Impairs Metabolic Homeostasis in Mice. <i>Scientific Reports</i> , 2019, 9, 1816.	3.3	21
69	Genetic Determinants of Circulating Glycine Levels and Risk of Coronary Artery Disease. <i>Journal of the American Heart Association</i> , 2019, 8, e011922.	3.7	20
70	Apolipoprotein E4 genotype in combination with poor metabolic profile is associated with reduced cognitive performance in healthy postmenopausal women: implications for late onset Alzheimer's disease. <i>Menopause</i> , 2019, 26, 7-15.	2.0	19
71	Subsequent Event Risk in Individuals With Established Coronary Heart Disease. <i>Circulation Genomic and Precision Medicine</i> , 2019, 12, e002470.	3.6	17
72	Arachidonate 5-Lipoxygenase Gene Variants Affect Response to Fish Oil Supplementation by Healthy African Americans. <i>Journal of Nutrition</i> , 2012, 142, 1417-1428.	2.9	16

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73	The Genetic Architecture of Hearing Impairment in Mice: Evidence for Frequency-Specific Genetic Determinants. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 2329-2339.	1.8	16
74	Nutrigenetic response to omega-3 fatty acids in obese asthmatics (NOOA): Rationale and methods. <i>Contemporary Clinical Trials</i> , 2013, 34, 326-335.	1.8	15
75	Habitual Diets Rich in Dark-Green Vegetables Are Associated with an Increased Response to ω -3 Fatty Acid Supplementation in Americans of African Ancestry. <i>Journal of Nutrition</i> , 2014, 144, 123-131.	2.9	15
76	Association of PLA2G4A with myocardial infarction is modulated by dietary PUFAs. <i>American Journal of Clinical Nutrition</i> , 2012, 95, 959-965.	4.7	14
77	Nonconventional genetic risk factors for cardiovascular disease. <i>Current Atherosclerosis Reports</i> , 2006, 8, 184-192.	4.8	13
78	Genetic and clinical markers of elevated liver fat content in overweight and obese hispanic children. <i>Obesity</i> , 2013, 21, E790-7.	3.0	12
79	Gene-Environment Interactions for Cardiovascular Disease. <i>Current Atherosclerosis Reports</i> , 2021, 23, 75.	4.8	12
80	Association of Factor V Leiden With Subsequent Atherothrombotic Events. <i>Circulation</i> , 2020, 142, 546-555.	1.6	11
81	Using Inbred Mouse Strains to Identify Genes for Complex Diseases. <i>Frontiers in Bioscience - Landmark</i> , 2006, 11, 1216.	3.0	10
82	A GWAS approach identifies Dapp1 as a determinant of air pollution-induced airway hyperreactivity. <i>PLoS Genetics</i> , 2019, 15, e1008528.	3.5	9
83	Dissecting the Genetic Architecture of Cystatin C in Diversity Outbred Mice. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 2529-2541.	1.8	9
84	PNPLA3 Genotype, Arachidonic Acid Intake, and Unsaturated Fat Intake Influences Liver Fibrosis in Hispanic Youth with Obesity. <i>Nutrients</i> , 2021, 13, 1621.	4.1	8
85	Clinical Intervention to Reduce Dietary Sugar Does Not Affect Liver Fat in Latino Youth, Regardless of PNPLA3 Genotype: A Randomized Controlled Trial. <i>Journal of Nutrition</i> , 2022, 152, 1655-1665.	2.9	8
86	Allgrove syndrome in a Mexican American family is caused by an ancestral mutation derived from North Africa. <i>Clinical Genetics</i> , 2008, 73, 385-387.	2.0	7
87	CD52-targeted depletion by Alemtuzumab ameliorates allergic airway hyperreactivity and lung inflammation. <i>Mucosal Immunology</i> , 2021, 14, 899-911.	6.0	7
88	Improved Performance of Dynamic Measures of Insulin Response Over Surrogate Indices to Identify Genetic Contributors of Type 2 Diabetes: The GUARDIAN Consortium. <i>Diabetes</i> , 2016, 65, 2072-2080.	0.6	4
89	Near-roadway air pollution, immune cells and adipokines among obese young adults. <i>Environmental Health</i> , 2022, 21, 36.	4.0	4
90	Effect of ApoE4 Genotype on the Association Between Metabolic Phenotype and Subclinical Atherosclerosis in Postmenopausal Women. <i>American Journal of Cardiology</i> , 2019, 124, 1031-1037.	1.6	3

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91	Genome-Wide Association Analysis Identifies Dcc as an Essential Factor in the Innervation of the Peripheral Vestibular System in Inbred Mice. JARO - Journal of the Association for Research in Otolaryngology, 2016, 17, 417-431.	1.8	2
92	Noise Exposure and Distortion Product Otoacoustic Emission Suprathreshold Amplitudes: A Genome-Wide Association Study. Audiology and Neuro-Otology, 2021, 26, 1-9.	1.3	2
93	Genetic evidence for independent causal relationships between metabolic biomarkers and risk of coronary artery diseases. Journal of Lipid Research, 2021, 62, 100064.	4.2	1
94	Non-Conventional Genetic Risk Factors for Cardiovascular Disease. World Review of Nutrition and Dietetics, 2008, 98, 62-76.	0.3	0
95	Effect of Omega-3 fatty acid supplementation and ALOX5 promoter variants on Lipid Profiles in African-Americans. FASEB Journal, 2009, 23, 724.3.	0.5	0