Brandon L Pierce

List of Publications by Year
in descending order

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81 papers	6,458 citations	87888 38 h-index	82547 72 g-index
89 all docs	89 docs citations	89 times ranked	10808 citing authors

#	Article	IF	Citations
1	Power and instrument strength requirements for Mendelian randomization studies using multiple genetic variants. International Journal of Epidemiology, 2011, 40, 740-752.	1.9	779
2	Efficient Design for Mendelian Randomization Studies: Subsample and 2-Sample Instrumental Variable Estimators. American Journal of Epidemiology, 2013, 178, 1177-1184.	3.4	768
3	Arsenic exposure from drinking water, and all-cause and chronic-disease mortalities in Bangladesh (HEALS): a prospective cohort study. Lancet, The, 2010, 376, 252-258.	13.7	590
4	Large-scale cis- and trans-eQTL analyses identify thousands of genetic loci and polygenic scores that regulate blood gene expression. Nature Genetics, 2021, 53, 1300-1310.	21.4	590
5	The impact of sex on gene expression across human tissues. Science, 2020, 369, .	12.6	329
6	Determinants of telomere length across human tissues. Science, 2020, 369, .	12.6	257
7	Genome-Wide Association Study Identifies Chromosome 10q24.32 Variants Associated with Arsenic Metabolism and Toxicity Phenotypes in Bangladesh. PLoS Genetics, 2012, 8, e1002522.	3.5	156
8	A Prospective Study of Arsenic Exposure From Drinking Water and Incidence of Skin Lesions in Bangladesh. American Journal of Epidemiology, 2011, 174, 185-194.	3.4	134
9	Drinking Water Arsenic Contamination, Skin Lesions, and Malignancies: A Systematic Review of the Global Evidence. Current Environmental Health Reports, 2015, 2, 52-68.	6.7	130
10	Genetic determinants of telomere length and risk of common cancers: a Mendelian randomization study. Human Molecular Genetics, 2015, 24, 5356-5366.	2.9	128
11	Circulating vitamin D concentration and risk of seven cancers: Mendelian randomisation study. BMJ: British Medical Journal, 2017, 359, j4761.	2.3	126
12	Mendelian randomization study of adiposity-related traits and risk of breast, ovarian, prostate, lung and colorectal cancer. International Journal of Epidemiology, 2016, 45, 896-908.	1.9	124
13	Height and Breast Cancer Risk: Evidence From Prospective Studies and Mendelian Randomization. Journal of the National Cancer Institute, 2015, 107, djv219.	6.3	99
14	Arsenic metabolism efficiency has a causal role in arsenic toxicity: Mendelian randomization and gene-environment interaction. International Journal of Epidemiology, 2013, 42, 1862-1872.	1.9	89
15	Mediation Analysis Demonstrates That Trans-eQTLs Are Often Explained by Cis-Mediation: A Genome-Wide Analysis among 1,800 South Asians. PLoS Genetics, 2014, 10, e1004818.	3.5	88
16	Identifying cis-mediators for trans-eQTLs across many human tissues using genomic mediation analysis. Genome Research, 2017, 27, 1859-1871.	5.5	72
17	Gene-Specific Differential DNA Methylation and Chronic Arsenic Exposure in an Epigenome-Wide Association Study of Adults in Bangladesh. Environmental Health Perspectives, 2015, 123, 64-71.	6.0	69
18	Association between Adult Height and Risk of Colorectal, Lung, and Prostate Cancer: Results from Meta-analyses of Prospective Studies and Mendelian Randomization Analyses. PLoS Medicine, 2016, 13, e1002118.	8.4	69

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19	A vast resource of allelic expression data spanning human tissues. Genome Biology, 2020, 21, 234.	8.8	68
20	Determinants and Consequences of Arsenic Metabolism Efficiency among 4,794 Individuals: Demographics, Lifestyle, Genetics, and Toxicity. Cancer Epidemiology Biomarkers and Prevention, 2016, 25, 381-390.	2.5	67
21	Co-occurring expression and methylation QTLs allow detection of common causal variants and shared biological mechanisms. Nature Communications, 2018, 9, 804.	12.8	66
22	Urinary and Dietary Analysis of 18,470 Bangladeshis Reveal a Correlation of Rice Consumption with Arsenic Exposure and Toxicity. PLoS ONE, 2013, 8, e80691.	2.5	62
23	A Prospective Study of the Synergistic Effects of Arsenic Exposure and Smoking, Sun Exposure, Fertilizer Use, and Pesticide Use on Risk of Premalignant Skin Lesions in Bangladeshi Men. American Journal of Epidemiology, 2011, 173, 183-191.	3.4	60
24	Association study of type 2 diabetes genetic susceptibility variants and risk of pancreatic cancer: an analysis of PanScan-I data. Cancer Causes and Control, 2011, 22, 877-883.	1.8	57
25	Arsenic Exposure, Dietary Patterns, and Skin Lesion Risk in Bangladesh: A Prospective Study. American Journal of Epidemiology, 2011, 173, 345-354.	3.4	56
26	C-reactive protein, interleukin-6, and prostate cancer risk in men aged 65Âyears and older. Cancer Causes and Control, 2009, 20, 1193-1203.	1.8	55
27	Genome-Wide â€œPleiotropy Scanâ€•Identifies HNF1A Region as a Novel Pancreatic Cancer Susceptibility Locus. Cancer Research, 2011, 71, 4352-4358.	0.9	55
28	The effect of non-differential measurement error on bias, precision and power in Mendelian randomization studies. International Journal of Epidemiology, 2012, 41, 1383-1393.	1.9	55
29	Arsenic and Lung Disease Mortality in Bangladeshi Adults. Epidemiology, 2014, 25, 536-543.	2.7	53
30	Lessons Learned From Past Gene-Environment Interaction Successes. American Journal of Epidemiology, 2017, 186, 778-786.	3.4	53
31	Imputing Gene Expression in Uncollected Tissues Within and Beyond GTEx. American Journal of Human Genetics, 2016, 98, 697-708.	6.2	51
32	Circulating vitamin D concentrations and risk of breast and prostate cancer: a Mendelian randomization study. International Journal of Epidemiology, 2019, 48, 1416-1424.	1.9	51
33	A prospective study of body mass index and mortality in Bangladesh. International Journal of Epidemiology, 2010, 39, 1037-1045.	1.9	50
34	Why are diabetics at reduced risk for prostate cancer? A review of the epidemiologic evidence. Urologic Oncology: Seminars and Original Investigations, 2012, 30, 735-743.	1.6	47
35	Diabetes mellitus and prostate cancer risk. Prostate, 2008, 68, 1126-1132.	2.3	45
36	Genetic susceptibility to accelerated cognitive decline in the US Health and Retirement Study. Neurobiology of Aging, 2014, 35, 1512.e11-1512.e18.	3.1	44

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37	Telomere structure and maintenance gene variants and risk of five cancer types. International Journal of Cancer, 2016, 139, 2655-2670.	5.1	43
38	Arsenic exposure, telomere length, and expression of telomere-related genes among Bangladeshi individuals. Environmental Research, 2015, 136, 462-469.	7.5	40
39	Association of Arsenic Exposure with Whole Blood DNA Methylation: An Epigenome-Wide Study of Bangladeshi Adults. Environmental Health Perspectives, 2019, 127, 57011.	6.0	40
40	Genetic Susceptibility to Type 2 Diabetes Is Associated with Reduced Prostate Cancer Risk. Human Heredity, 2010, 69, 193-201.	0.8	39
41	Mendelian Randomization Studies of Cancer Risk: a Literature Review. Current Epidemiology Reports, 2018, 5, 184-196.	2.4	37
42	Intakes of Several Nutrients Are Associated with Incidence of Arsenic-Related Keratotic Skin Lesions in Bangladesh ,. Journal of Nutrition, 2012, 142, 2128-2134.	2.9	33
43	Genome-wide association study of telomere length among South Asians identifies a second RTEL1 association signal. Journal of Medical Genetics, 2018, 55, 64-71.	3.2	33
44	Measuring dietary acculturation in Japanese Americans with the use of confirmatory factor analysis of food-frequency data. American Journal of Clinical Nutrition, 2007, 86, 496-503.	4.7	28
45	Interaction between Arsenic Exposure from Drinking Water and Genetic Polymorphisms on Cardiovascular Disease in Bangladesh: A Prospective Case-Cohort Study. Environmental Health Perspectives, 2015, 123, 451-457.	6.0	27
46	A study of telomere length, arsenic exposure, and arsenic toxicity in a Bangladeshi cohort. Environmental Research, 2018, 164, 346-355.	7.5	26
47	Primo: integration of multiple GWAS and omics QTL summary statistics for elucidation of molecular mechanisms of trait-associated SNPs and detection of pleiotropy in complex traits. Genome Biology, 2020, 21, 236.	8.8	26
48	Genome-wide association study of smoking behaviours among Bangladeshi adults. Journal of Medical Genetics, 2014, 51, 327-333.	3.2	25
49	Elevation of Stromal-Derived Mediators of Inflammation Promote Prostate Cancer Progression in African-American Men. Cancer Research, 2018, 78, 6134-6145.	0.9	25
50	The contribution of parent-to-offspring transmission of telomeres to the heritability of telomere length in humans. Human Genetics, 2019, 138, 49-60.	3.8	24
51	Urinary metals and leukocyte telomere length in American Indian communities: The Strong Heart and the Strong Heart Family Study. Environmental Pollution, 2019, 246, 311-318.	7.5	23
52	Caseâ€only genomeâ€wide interaction study of disease risk, prognosis and treatment. Genetic Epidemiology, 2010, 34, 7-15.	1.3	22
53	The Genetic Architecture of Arsenic Metabolism Efficiency:A SNP-Based Heritability Study of Bangladeshi Adults. Environmental Health Perspectives, 2015, 123, 985-992.	6.0	22
54	Measurement of Telomere Length: A New Assay Using QuantiGene Chemistry on a Luminex Platform. Cancer Epidemiology Biomarkers and Prevention, 2014, 23, 2667-2672.	2.5	21

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55	Sex-Specific and Time-Varying Associations Between Cigarette Smoking and Telomere Length Among Older Adults. American Journal of Epidemiology, 2016, 184, 922-932.	3.4	21
56	Genome-Wide Association Studies and Heritability Estimates of Body Mass Index Related Phenotypes in Bangladeshi Adults. PLoS ONE, 2014, 9, e105062.	2.5	19
57	A missense variant in FTCD is associated with arsenic metabolism and toxicity phenotypes in Bangladesh. PLoS Genetics, 2019, 15, e1007984.	3.5	19
58	Dietary B vitamin intakes and urinary total arsenic concentration in the Health Effects of Arsenic Longitudinal Study (HEALS) cohort, Bangladesh. European Journal of Nutrition, 2010, 49, 473-481.	3.9	18
59	Genetically Increased Telomere Length and Aging-Related Traits in the U.K. Biobank. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 15-22.	3.6	18
60	A Unified Set-Based Test with Adaptive Filtering for Geneâ€“Environment Interaction Analyses. Biometrics, 2016, 72, 629-638.	1.4	14
61	Trans-ethnic predicted expression genome-wide association analysis identifies a gene for estrogen receptor-negative breast cancer. PLoS Genetics, 2017, 13, e1006727.	3.5	14
62	Genetic Determinants of Reduced Arsenic Metabolism Efficiency in the 10q24.32 Region Are Associated With Reduced AS3MT Expression in Multiple Human Tissue Types. Toxicological Sciences, 2020, 176, 382-395.	3.1	14
63	Genome-Wide Association Study of Parity in Bangladeshi Women. PLoS ONE, 2015, 10, e0118488.	2.5	13
64	The association between telomere length and mortality in Bangladesh. Aging, 2017, 9, 1537-1551.	3.1	12
65	Telomere length measurement by a novel Luminex-based assay: a blinded comparison to Southern blot. International Journal of Molecular Epidemiology and Genetics, 2016, 7, 18-23.	0.4	12
66	Novel Luminex Assay for Telomere Repeat Mass Does Not Show Well Position Effects Like qPCR. PLoS ONE, 2016, 11, e0155548.	2.5	11
67	Genomic scan of 12 hereditary prostate cancer families having an occurrence of pancreas cancer. Prostate, 2007, 67, 410-415.	2.3	10
68	The effect of age on DNA methylation in whole blood among Bangladeshi men and women. BMC Genomics, 2019, 20, 704.	2.8	10
69	Relative Telomere Length Change in Colorectal Carcinoma and Its Association with Tumor Characteristics, Gene Expression and Microsatellite Instability. Cancers, 2022, 14, 2250.	3.7	10
70	A novel pooledâ€sample multiplex luminex assay for highâ€throughput measurement of relative telomere length. American Journal of Human Biology, 2018, 30, e23118.	1.6	9
71	Rare, Protein-Altering Variants in AS3MT and Arsenic Metabolism Efficiency: A Multi-Population Association Study. Environmental Health Perspectives, 2021, 129, 47007.	6.0	9
72	Screening for geneâ€“environment (GÃ—E) interaction using omics data from exposed individuals: an application to gene-arsenic interaction. Mammalian Genome, 2018, 29, 101-111.	2.2	7

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73	Tobacco and marijuana use and their association with serum prostate-specific antigen levels among African American men in Chicago. Preventive Medicine Reports, 2020, 20, 101174.	1.8	7
74	The impact of patents on the development of genome-based clinical diagnostics: an analysis of case studies. Genetics in Medicine, 2009, 11, 202-209.	2.4	5
75	Unidentified Genetic Variants Influence Pancreatic Cancer Risk: An Analysis of Polygenic Susceptibility in the <scp>P</scp>an<scp>S</scp>can Study. Genetic Epidemiology, 2012, 36, 517-524.	1.3	5
76	A metaâ€analysis approach with filtering for identifying geneâ€level geneâ€“environment interactions. Genetic Epidemiology, 2018, 42, 434-446.	1.3	5
77	Assessing the impact of arsenic metabolism efficiency on DNA methylation using Mendelian randomization. Environmental Epidemiology, 2020, 4, e083.	3.0	4
78	Research Participantsâ€™ Attitudes towards Receiving Information on Genetic Susceptibility to Arsenic Toxicity in Rural Bangladesh. Public Health Genomics, 2020, 23, 69-76.	1.0	4
79	CCmed: cross-condition mediation analysis for identifying replicable trans-associations mediated by cis-gene expression. Bioinformatics, 2021, 37, 2513-2520.	4.1	4
80	The aging epigenome. ELife, 2022, 11, .	6.0	4
81	Arsenic exposure from drinking water and mortality in Bangladesh â€“ Authors' reply. Lancet, The, 2010, 376, 1642.	13.7	3