

Duncan C Thomas

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95 papers	5,213 citations	37 h-index	71 g-index
107 ext. papers	6,060 ext. citations	5.2 avg, IF	5.74 L-index

#	Paper	IF	Citations
95	Gene--environment-wide association studies: emerging approaches. <i>Nature Reviews Genetics</i> , 2010 , 11, 259-72	30.1	488
94	Exposure to residential electric and magnetic fields and risk of childhood leukemia. <i>American Journal of Epidemiology</i> , 1991 , 134, 923-37	3.8	400
93	Environmental epigenetics: prospects for studying epigenetic mediation of exposure-response relationships. <i>Human Genetics</i> , 2012 , 131, 1565-89	6.3	258
92	Modeling and E-M estimation of haplotype-specific relative risks from genotype data for a case-control study of unrelated individuals. <i>Human Heredity</i> , 2003 , 55, 179-90	1.1	230
91	Simultaneously modelling censored survival data and repeatedly measured covariates: a Gibbs sampling approach. <i>Statistics in Medicine</i> , 1996 , 15, 1663-85	2.3	228
90	Dose to the contralateral breast from radiotherapy and risk of second primary breast cancer in the WE CARE study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 72, 1021-30	4	218
89	Recent developments in genomewide association scans: a workshop summary and review. <i>American Journal of Human Genetics</i> , 2005 , 77, 337-45	11	180
88	Discovery of common and rare genetic risk variants for colorectal cancer. <i>Nature Genetics</i> , 2019 , 51, 76-83	36.3	177
87	Population-based study of the risk of second primary contralateral breast cancer associated with carrying a mutation in BRCA1 or BRCA2. <i>Journal of Clinical Oncology</i> , 2010 , 28, 2404-10	2.2	137
86	Determining Risk of Colorectal Cancer and Starting Age of Screening Based on Lifestyle, Environmental, and Genetic Factors. <i>Gastroenterology</i> , 2018 , 154, 2152-2164.e19	13.3	131
85	Methods for investigating gene-environment interactions in candidate pathway and genome-wide association studies. <i>Annual Review of Public Health</i> , 2010 , 31, 21-36	20.6	113
84	Commentary: the concept of 'Mendelian Randomization'. <i>International Journal of Epidemiology</i> , 2004 , 33, 21-5	7.8	108
83	Optimal two-stage genotyping designs for genome-wide association scans. <i>Genetic Epidemiology</i> , 2006 , 30, 356-68	2.6	107
82	Genome-wide association study of colorectal cancer identifies six new susceptibility loci. <i>Nature Communications</i> , 2015 , 6, 7138	17.4	106
81	Radiation exposure, the ATM Gene, and contralateral breast cancer in the women's environmental cancer and radiation epidemiology study. <i>Journal of the National Cancer Institute</i> , 2010 , 102, 475-83	9.7	101
80	Study design: evaluating gene-environment interactions in the etiology of breast cancer - the WE CARE study. <i>Breast Cancer Research</i> , 2004 , 6, R199-214	8.3	94
79	A model to determine colorectal cancer risk using common genetic susceptibility loci. <i>Gastroenterology</i> , 2015 , 148, 1330-9.e14	13.3	89

78	Processed meats and risk of childhood leukemia (California, USA). <i>Cancer Causes and Control</i> , 1994 , 5, 195-202	2.8	88
77	Bias and efficiency in family-based gene-characterization studies: conditional, prospective, retrospective, and joint likelihoods. <i>American Journal of Human Genetics</i> , 2000 , 66, 1119-31	11	84
76	Current Challenges and New Opportunities for Gene-Environment Interaction Studies of Complex Diseases. <i>American Journal of Epidemiology</i> , 2017 , 186, 753-761	3.8	78
75	Bayesian modeling of complex metabolic pathways. <i>Human Heredity</i> , 2003 , 56, 83-93	1.1	78
74	Sample size requirements to detect gene-environment interactions in genome-wide association studies. <i>Genetic Epidemiology</i> , 2011 , 35, 201-10	2.6	73
73	Informatics and Data Analytics to Support Exposome-Based Discovery for Public Health. <i>Annual Review of Public Health</i> , 2017 , 38, 279-294	20.6	68
72	Novel Common Genetic Susceptibility Loci for Colorectal Cancer. <i>Journal of the National Cancer Institute</i> , 2019 , 111, 146-157	9.7	67
71	Hierarchical Bayes prioritization of marker associations from a genome-wide association scan for further investigation. <i>Genetic Epidemiology</i> , 2007 , 31, 871-82	2.6	66
70	Exposure to magnetic fields among electrical workers in relation to leukemia risk in Los Angeles County. <i>American Journal of Industrial Medicine</i> , 1994 , 26, 47-60	2.7	60
69	Invited commentary: GE-Whiz! Ratcheting gene-environment studies up to the whole genome and the whole exposome. <i>American Journal of Epidemiology</i> , 2012 , 175, 203-7; discussion 208-9	3.8	41
68	Bayesian spatial modeling of haplotype associations. <i>Human Heredity</i> , 2003 , 56, 32-40	1.1	40
67	Methodological Issues in Multistage Genome-wide Association Studies. <i>Statistical Science</i> , 2009 , 24, 414-429	4.9	39
66	Use of pathway information in molecular epidemiology. <i>Human Genomics</i> , 2009 , 4, 21-42	6.8	38
65	Statistical Issues in Studies of the Long-Term Effects of Air Pollution: The Southern California Children's Health Study. <i>Statistical Science</i> , 2004 , 19, 414	2.4	37
64	Genetic epidemiology with a capital "E". <i>Genetic Epidemiology</i> , 2000 , 19, 289-300	2.6	37
63	Censored survival models for genetic epidemiology: a Gibbs sampling approach. <i>Genetic Epidemiology</i> , 1994 , 11, 171-88	2.6	35
62	Analysis of gene-smoking interaction in lung cancer. <i>Genetic Epidemiology</i> , 1997 , 14, 199-214	2.6	33
61	Efficient genome-wide association testing of gene-environment interaction in case-parent trios. <i>American Journal of Epidemiology</i> , 2010 , 172, 116-22	3.8	30

60	Breast Cancer Family History and Contralateral Breast Cancer Risk in Young Women: An Update From the Women's Environmental Cancer and Radiation Epidemiology Study. <i>Journal of Clinical Oncology</i> , 2018 , 36, 1513-1520	2.2	29
59	Dysregulated lipid and fatty acid metabolism link perfluoroalkyl substances exposure and impaired glucose metabolism in young adults. <i>Environment International</i> , 2020 , 145, 106091	12.9	27
58	The cardiopulmonary effects of ambient air pollution and mechanistic pathways: a comparative hierarchical pathway analysis. <i>PLoS ONE</i> , 2014 , 9, e114913	3.7	26
57	Discovery of complex pathways from observational data. <i>Statistics in Medicine</i> , 2010 , 29, 1998-2011	2.3	25
56	Bivariate survival models for analysis of genetic and environmental effects in twins. <i>Genetic Epidemiology</i> , 1990 , 7, 121-35	2.6	25
55	Bayesian model averaging in time-series studies of air pollution and mortality. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2007 , 70, 311-5	3.2	23
54	Association of Common Genetic Variants With Contralateral Breast Cancer Risk in the WECARE Study. <i>Journal of the National Cancer Institute</i> , 2017 , 109,	9.7	22
53	The use of hierarchical models for estimating relative risks of individual genetic variants: an application to a study of melanoma. <i>Statistics in Medicine</i> , 2008 , 27, 1973-92	2.3	20
52	Genome scan of complex traits by haplotype sharing correlation. <i>Genetic Epidemiology</i> , 2001 , 21 Suppl 1, S582-7	2.6	20
51	Residential magnetic fields predicted from wiring configurations: II. Relationships to childhood leukemia. <i>Bioelectromagnetics</i> , 1999 , 20, 414-422	1.6	18
50	Opportunities and Challenges for Environmental Exposure Assessment in Population-Based Studies. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2017 , 26, 1370-1380	4	17
49	Considerations in determining matching criteria and stratum sizes for case-control studies. <i>International Journal of Epidemiology</i> , 1981 , 10, 389-92	7.8	17
48	Near-roadway air pollution exposure and altered fatty acid oxidation among adolescents and young adults - The interplay with obesity. <i>Environment International</i> , 2019 , 130, 104935	12.9	16
47	Two-phase and family-based designs for next-generation sequencing studies. <i>Frontiers in Genetics</i> , 2013 , 4, 276	4.5	16
46	Methods for testing interactions, with applications to occupational exposures, smoking, and lung cancer. <i>American Journal of Industrial Medicine</i> , 1988 , 13, 131-47	2.7	16
45	Using biological knowledge to discover higher order interactions in genetic association studies. <i>Genetic Epidemiology</i> , 2010 , 34, 863-78	2.6	15
44	Bayes estimates of haplotype effects. <i>Genetic Epidemiology</i> , 2001 , 21 Suppl 1, S712-7	2.6	15
43	Linkage Analysis of Urine Arsenic Species Patterns in the Strong Heart Family Study. <i>Toxicological Sciences</i> , 2015 , 148, 89-100	4.4	14

42	Toxicokinetic genetics: an approach to gene-environment and gene-gene interactions in complex metabolic pathways. <i>Iarc (international Agency for Research on Cancer) Scientific Publications</i> , 2004 , 127-50		14
41	A Bayesian approach to multipoint mapping in nuclear families. <i>Genetic Epidemiology</i> , 1997 , 14, 903-8	2.6	13
40	Case-parents design for gene-environment interaction by Schaid. <i>Genetic Epidemiology</i> , 2000 , 19, 461-3	2.6	12
39	Residential magnetic fields predicted from wiring configurations: I. Exposure model. <i>Bioelectromagnetics</i> , 1999 , 20, 399-413	1.6	12
38	Ascertainment bias in rate ratio estimation from case-sibling control studies of variable age-at-onset diseases. <i>Biometrics</i> , 1999 , 55, 1129-36	1.8	11
37	Fitting models of carcinogenesis to a case-control study of breast cancer. <i>Journal of Chronic Diseases</i> , 1987 , 40 Suppl 2, 181S-189S		11
36	Multistage sampling for latent variable models. <i>Lifetime Data Analysis</i> , 2007 , 13, 565-81	1.3	10
35	High-volume "-omics" technologies and the future of molecular epidemiology. <i>Epidemiology</i> , 2006 , 17, 490-1	3.1	10
34	Asthma Disease Status, COPD, and COVID-19 Severity in a Large Multiethnic Population. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2021 , 9, 3621-3628.e2	5.4	10
33	A generalized estimating equations approach to linkage analysis in sibships in relation to multiple markers and exposure factors. <i>Genetic Epidemiology</i> , 1999 , 17 Suppl 1, S737-42	2.6	9
32	A latent unknown clustering integrating multi-omics data (LUCID) with phenotypic traits. <i>Bioinformatics</i> , 2020 , 36, 842-850	7.2	9
31	GWASeq: targeted re-sequencing follow up to GWAS. <i>BMC Genomics</i> , 2016 , 17, 176	4.5	7
30	What Does "Precision Medicine" Have to Say About Prevention?. <i>Epidemiology</i> , 2017 , 28, 479-483	3.1	6
29	Radiation Treatment, ATM, BRCA1/2, and CHEK2*1100delC Pathogenic Variants and Risk of Contralateral Breast Cancer. <i>Journal of the National Cancer Institute</i> , 2020 , 112, 1275-1279	9.7	6
28	Two-stage family-based designs for sequencing studies. <i>BMC Proceedings</i> , 2014 , 8, S32	2.3	6
27	Genetic epidemiologic analysis of quantitative phenotypes using Gibbs sampling. <i>Genetic Epidemiology</i> , 1995 , 12, 753-8	2.6	6
26	Empirical hierarchical bayes approach to gene-environment interactions: development and application to genome-wide association studies of lung cancer in TRICL. <i>Genetic Epidemiology</i> , 2013 , 37, 551-559	2.6	5
25	Joint analysis for integrating two related studies of different data types and different study designs using hierarchical modeling approaches. <i>Human Heredity</i> , 2012 , 74, 83-96	1.1	5

24	International Genetic Epidemiology Society: commentary on Darkness in El Dorado by Patrick Tierney. <i>Genetic Epidemiology</i> , 2001 , 21, 81-104	2.6	5
23	Some Contributions of Statistics to Environmental Epidemiology. <i>Journal of the American Statistical Association</i> , 2000 , 95, 315-319	2.8	5
22	A joint test of linkage and gene x environment interaction, with affected sib pairs. <i>Genetic Epidemiology</i> , 1999 , 17 Suppl 1, S563-8	2.6	5
21	A bivariate genetic analysis of HDL- and LDL-cholesterol incorporating measured covariates: a Gibbs sampling application. <i>Genetic Epidemiology</i> , 1993 , 10, 623-8	2.6	5
20	Inclusion of biological knowledge in a Bayesian shrinkage model for joint estimation of SNP effects. <i>Genetic Epidemiology</i> , 2017 , 41, 320-331	2.6	4
19	Complex system approaches to genetic analysis Bayesian approaches. <i>Advances in Genetics</i> , 2010 , 72, 47-71	3.3	4
18	Viewpoint: using gene-environment interactions to dissect the effects of complex mixtures. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2007 , 17 Suppl 2, S71-4	6.7	4
17	A generalized estimating equations approach to fitting major gene models in segregation analysis of continuous phenotypes. <i>Genetic Epidemiology</i> , 1993 , 10, 61-74	2.6	4
16	Near-roadway air pollution associated with COVID-19 severity and mortality - Multiethnic cohort study in Southern California. <i>Environment International</i> , 2021 , 157, 106862	12.9	3
15	Next-Generation Sequencing Studies: Optimal Design and Analysis, Missing Heritability and Rare Variants. <i>Current Epidemiology Reports</i> , 2014 , 1, 213-219	2.9	2
14	A Bayesian Hierarchical Model for Relating Multiple SNPs within Multiple Genes to Disease Risk. <i>International Journal of Genomics</i> , 2013 , 2013, 406217	2.5	2
13	Measurement Error in Spatial Exposure Models: Study Design Implications. <i>Environmetrics</i> , 2013 , 24, 518-520	1.3	2
12	Ambient air pollution and COVID-19 incidence during four 2020-2021 case surges.. <i>Environmental Research</i> , 2022 , 208, 112758	7.9	2
11	Estimating the Effect of Targeted Screening Strategies: An Application to Colonoscopy and Colorectal Cancer. <i>Epidemiology</i> , 2017 , 28, 470-478	3.1	2
10	A Unified Model for the Analysis of Gene-Environment Interaction. <i>American Journal of Epidemiology</i> , 2019 , 188, 760-767	3.8	2
9	Association of a Pathway-Specific Genetic Risk Score With Risk of Radiation-Associated Contralateral Breast Cancer. <i>JAMA Network Open</i> , 2019 , 2, e1912259	10.4	1
8	Association tests using unaffected-sibling versus pseudo-sibling controls. <i>Genetic Epidemiology</i> , 1999 , 17 Suppl 1, S731-6	2.6	1
7	Re: "A population-based case-cohort evaluation of the efficacy of mammographic screening for breast cancer". <i>American Journal of Epidemiology</i> , 1995 , 142, 448-50	3.8	1

6	Transcriptomic and metabolomic associations with exposures to air pollutants among young adults with childhood asthma history.. <i>Environmental Pollution</i> , 2022 , 299, 118903	9.3	1
5	Some Contributions of Statistics to Environmental Epidemiology		1
4	Beyond GWAS of Colorectal Cancer: Evidence of Interaction with Alcohol Consumption and Putative Causal Variant for the 10q24.2 Region.. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2022 , OF1-OF13	4	0
3	Re: Kheifets et al. (2017): Residential magnetic fields exposure and childhood leukemia: a population-based case-control study in California. <i>Cancer Causes and Control</i> , 2018 , 29, 609-610	2.8	
2	Discussion on "Statistical Issues Arising in the Women's Health Initiative". <i>Biometrics</i> , 2005 , 61, 930-933	1.8	
1	Bayesian parameter estimation for automatic annotation of gene functions using observational data and phylogenetic trees. <i>PLoS Computational Biology</i> , 2021 , 17, e1007948	5	