

Frank D Gilliland

List of Publications by Year in Descending Order

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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.

126
papers

6,994
citations

42
h-index

82
g-index

144
ext. papers

8,653
ext. citations

8.5
avg, IF

5.54
L-index

#	Paper	IF	Citations
126	Genetic determinants of telomere length from 109,122 ancestrally diverse whole-genome sequences in TOPMed.. <i>Cell Genomics</i> , 2022 , 2, 100084-100084		1
125	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
124	Ambient air pollution and COVID-19 incidence during four 2020-2021 case surges.. <i>Environmental Research</i> , 2022 , 208, 112758	7.9	2
123	Long-term air pollution and COVID-19 mortality rates in California: Findings from the Spring/Summer and Winter surges of COVID-19. <i>Environmental Pollution</i> , 2022 , 292, 118396	9.3	1
122	The Role of Childhood Asthma in Obesity Development: A Nationwide US Multicohort Study. <i>Epidemiology</i> , 2022 , 33, 131-140	3.1	0
121	Plasma concentrations of lipophilic persistent organic pollutants and glucose homeostasis in youth populations.. <i>Environmental Research</i> , 2022 , 212, 113296	7.9	1
120	Characteristics associated with COVID-19 vaccination status among staff and faculty of a large, diverse University in Los Angeles: The Trojan Pandemic Response Initiative.. <i>Preventive Medicine Reports</i> , 2022 , 27, 101802	2.6	1
119	Asthma clustering methods: a literature-informed application to the children's health study data. <i>Journal of Asthma</i> , 2021 , 1-14	1.9	0
118	COVID-19 mortality in California based on death certificates: disproportionate impacts across racial/ethnic groups and nativity. <i>Annals of Epidemiology</i> , 2021 , 58, 69-75	6.4	13
117	Mapping the 17q12-21.1 Locus for Variants Associated with Early-Onset Asthma in African Americans. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021 , 203, 424-436	10.2	5
116	Contribution of tailpipe and non-tailpipe traffic sources to quasi-ultrafine, fine and coarse particulate matter in southern California. <i>Journal of the Air and Waste Management Association</i> , 2021 , 71, 209-230	2.4	12
115	Hierarchical Bayesian estimation of covariate effects on airway and alveolar nitric oxide. <i>Scientific Reports</i> , 2021 , 11, 17180	4.9	0
114	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
113	Long-term exposures to air pollutants affect in children: a longitudinal study. <i>European Respiratory Journal</i> , 2021 , 58,	13.6	1
112	US Childhood Asthma Incidence Rate Patterns From the ECHO Consortium to Identify High-risk Groups for Primary Prevention. <i>JAMA Pediatrics</i> , 2021 , 175, 919-927	8.3	5
111	Exposure to Perfluoroalkyl Substances and Glucose Homeostasis in Youth. <i>Environmental Health Perspectives</i> , 2021 , 129, 97002	8.4	3
110	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

109	Patterns and determinants of exhaled nitric oxide trajectories in schoolchildren over a 7-year period. <i>European Respiratory Journal</i> , 2020 , 56,	13.6	1
108	Lung Function in African American Children with Asthma Is Associated with Novel Regulatory Variants of the KIT Ligand and Gene-By-Air-Pollution Interaction. <i>Genetics</i> , 2020 , 215, 869-886	4	3
107	Exposure Measurement Error in Air Pollution Studies: The Impact of Shared, Multiplicative Measurement Error on Epidemiological Health Risk Estimates. <i>Air Quality, Atmosphere and Health</i> , 2020 , 13, 631-643	5.6	6
106	Asthma and its relationship to mitochondrial copy number: Results from the Asthma Translational Genomics Collaborative (ATGC) of the Trans-Omics for Precision Medicine (TOPMed) program. <i>PLoS ONE</i> , 2020 , 15, e0242364	3.7	2
105	Chemical Characterization and Seasonality of Ambient Particles (PM) in the City Centre of Addis Ababa. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	4
104	The Potential Effects of Policy-driven Air Pollution Interventions on Childhood Lung Development. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020 , 201, 438-444	10.2	7
103	Spatiotemporal Imputation of MAIAC AOD Using Deep Learning with Downscaling. <i>Remote Sensing of Environment</i> , 2020 , 237,	13.2	35
102	The Dynamic Relationship Between Asthma and Obesity in Schoolchildren. <i>American Journal of Epidemiology</i> , 2020 , 189, 583-591	3.8	11
101	Ensemble-based deep learning for estimating PM over California with multisource big data including wildfire smoke. <i>Environment International</i> , 2020 , 145, 106143	12.9	21
100	Biomedical REAL-Time Health Evaluation (BREATHE): toward an mHealth informatics platform. <i>JAMIA Open</i> , 2020 , 3, 190-200	2.9	9
99	Genome-wide analysis highlights contribution of immune system pathways to the genetic architecture of asthma. <i>Nature Communications</i> , 2020 , 11, 1776	17.4	33
98	Outdoor Air Pollution and New-Onset Airway Disease. An Official American Thoracic Society Workshop Report. <i>Annals of the American Thoracic Society</i> , 2020 , 17, 387-398	4.7	52
97	Epigenome-wide meta-analysis of DNA methylation and childhood asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2019 , 143, 2062-2074	11.5	87
96	Study Design, Protocol and Profile of the Maternal And Developmental Risks from Environmental and Social Stressors (MADRES) Pregnancy Cohort: a Prospective Cohort Study in Predominantly Low-Income Hispanic Women in Urban Los Angeles. <i>BMC Pregnancy and Childbirth</i> , 2019 , 19, 189	3.2	18
95	Association of Changes in Air Quality With Incident Asthma in Children in California, 1993-2014. <i>JAMA - Journal of the American Medical Association</i> , 2019 , 321, 1906-1915	27.4	62
94	Cluster-based bagging of constrained mixed-effects models for high spatiotemporal resolution nitrogen oxides prediction over large regions. <i>Environment International</i> , 2019 , 128, 310-323	12.9	14
93	High intake of dietary fructose in overweight/obese teenagers associated with depletion of and in gut microbiome. <i>Gut Microbes</i> , 2019 , 10, 712-719	8.8	48
92	Elucidation of causal direction between asthma and obesity: a bi-directional Mendelian randomization study. <i>International Journal of Epidemiology</i> , 2019 , 48, 899-907	7.8	23

91	Perfluoroalkyl substances, metabolomic profiling, and alterations in glucose homeostasis among overweight and obese Hispanic children: A proof-of-concept analysis. <i>Environment International</i> , 2019 , 126, 445-453	12.9	54
90	Within-subject effects of environmental and social stressors on pre- and post-partum obesity-related biobehavioral responses in low-income Hispanic women: protocol of an intensive longitudinal study. <i>BMC Public Health</i> , 2019 , 19, 253	4.1	11
89	Exposure measurement error in air pollution studies: A framework for assessing shared, multiplicative measurement error in ensemble learning estimates of nitrogen oxides. <i>Environment International</i> , 2019 , 125, 97-106	12.9	6
88	Understanding the importance of key risk factors in predicting chronic bronchitic symptoms using a machine learning approach. <i>BMC Medical Research Methodology</i> , 2019 , 19, 70	4.7	5
87	A trans-ancestral meta-analysis of genome-wide association studies reveals loci associated with childhood obesity. <i>Human Molecular Genetics</i> , 2019 , 28, 3327-3338	5.6	30
86	Effects of policy-driven hypothetical air pollutant interventions on childhood asthma incidence in southern California. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 15883-15888	11.5	11
85	Associations of air pollution, obesity and cardiometabolic health in young adults: The Meta-AIR study. <i>Environment International</i> , 2019 , 133, 105180	12.9	52
84	Dietary Fiber-Induced Microbial Short Chain Fatty Acids Suppress ILC2-Dependent Airway Inflammation. <i>Frontiers in Immunology</i> , 2019 , 10, 2051	8.4	55
83	Applying Multivariate Segmentation Methods to Human Activity Recognition From Wearable Sensors Data. <i>JMIR MHealth and UHealth</i> , 2019 , 7, e11201	5.5	18
82	Costimulation of type-2 innate lymphoid cells by GITR promotes effector function and ameliorates type 2 diabetes. <i>Nature Communications</i> , 2019 , 10, 713	17.4	41
81	Regional and traffic-related air pollutants are associated with higher consumption of fast food and trans fat among adolescents. <i>American Journal of Clinical Nutrition</i> , 2019 , 109, 99-108	7	17
80	A GWAS approach identifies Dapp1 as a determinant of air pollution-induced airway hyperreactivity. <i>PLoS Genetics</i> , 2019 , 15, e1008528	6	4
79	An admixture mapping meta-analysis implicates genetic variation at 18q21 with asthma susceptibility in Latinos. <i>Journal of Allergy and Clinical Immunology</i> , 2019 , 143, 957-969	11.5	20
78	Ambient and Traffic-Related Air Pollution Exposures as Novel Risk Factors for Metabolic Dysfunction and Type 2 Diabetes. <i>Current Epidemiology Reports</i> , 2018 , 5, 79-91	2.9	34
77	Role of local CpG DNA methylation in mediating the 17q21 asthma susceptibility gasdermin B (GSDMB)/ORMDL sphingolipid biosynthesis regulator 3 (ORMDL3) expression quantitative trait locus. <i>Journal of Allergy and Clinical Immunology</i> , 2018 , 141, 2282-2286.e6	11.5	17
76	Gene Promoter Hypermethylation Detected in Sputum Predicts FEV Decline and All-Cause Mortality in Smokers. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 198, 187-196	10.2	7
75	Exposure to traffic-related air pollution and the composition of the gut microbiota in overweight and obese adolescents. <i>Environmental Research</i> , 2018 , 161, 472-478	7.9	53
74	Multiancestry association study identifies new asthma risk loci that colocalize with immune-cell enhancer marks. <i>Nature Genetics</i> , 2018 , 50, 42-53	36.3	246

73	Single-Cell Digital Lysates Generated by Phase-Switch Microfluidic Device Reveal Transcriptome Perturbation of Cell Cycle. <i>ACS Nano</i> , 2018 , 12, 4687-4694	16.7	8
72	Genome-wide association and HLA fine-mapping studies identify risk loci and genetic pathways underlying allergic rhinitis. <i>Nature Genetics</i> , 2018 , 50, 1072-1080	36.3	52
71	RISK EFFECTS OF NEAR-ROADWAY POLLUTANTS AND ASTHMA STATUS ON BRONCHITIC SYMPTOMS IN CHILDREN. <i>Environmental Epidemiology</i> , 2018 , 2,	0.2	6
70	Dietary Nutrient Intake, Ethnicity, and Epigenetic Silencing of Lung Cancer Genes Detected in Sputum in New Mexican Smokers. <i>Cancer Prevention Research</i> , 2018 , 11, 93-102	3.2	4
69	Gene Coexpression Networks in Whole Blood Implicate Multiple Interrelated Molecular Pathways in Obesity in People with Asthma. <i>Obesity</i> , 2018 , 26, 1938-1948	8	9
68	Longitudinal associations of in utero and early life near-roadway air pollution with trajectories of childhood body mass index. <i>Environmental Health</i> , 2018 , 17, 64	6	44
67	Association of Prenatal Exposure to Ambient and Traffic-Related Air Pollution With Newborn Thyroid Function: Findings From the Children's Health Study. <i>JAMA Network Open</i> , 2018 , 1, e182172	10.4	25
66	Does early onset asthma increase childhood obesity risk? A pooled analysis of 16 European cohorts. <i>European Respiratory Journal</i> , 2018 , 52,	13.6	30
65	Relationship between free and total malondialdehyde, a well-established marker of oxidative stress, in various types of human biospecimens. <i>Journal of Thoracic Disease</i> , 2018 , 10, 3088-3097	2.6	40
64	Short-term effects of airport-associated ultrafine particle exposure on lung function and inflammation in adults with asthma. <i>Environment International</i> , 2018 , 118, 48-59	12.9	56
63	Effects of Childhood Asthma on the Development of Obesity among School-aged Children. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017 , 195, 1181-1188	10.2	68
62	Longitudinal Associations Between Ambient Air Pollution With Insulin Sensitivity, βCell Function, and Adiposity in Los Angeles Latino Children. <i>Diabetes</i> , 2017 , 66, 1789-1796	0.9	82
61	Particulate matter air pollution and liver cancer survival. <i>International Journal of Cancer</i> , 2017 , 141, 744-749	7.9	48
60	Genetic and epigenetic susceptibility of airway inflammation to PM in school children: new insights from quantile regression. <i>Environmental Health</i> , 2017 , 16, 88	6	14
59	Constrained Mixed-Effect Models with Ensemble Learning for Prediction of Nitrogen Oxides Concentrations at High Spatiotemporal Resolution. <i>Environmental Science & Technology</i> , 2017 , 51, 9920-9929	10.3	13
58	Gene Expression Profiling in Blood Provides Reproducible Molecular Insights into Asthma Control. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017 , 195, 179-188	10.2	37
57	Traffic-related air pollution and alveolar nitric oxide in southern California children. <i>European Respiratory Journal</i> , 2016 , 47, 1348-56	13.6	32
56	Air Pollution and Lung Function in Minority Youth with Asthma in the GALA II (Genes-Environments and Admixture in Latino Americans) and SAGE II (Study of African Americans, Asthma, Genes, and Environments) Studies. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016 , 193, 1271-80	10.2	41

55	Prenatal Air Pollution Exposure and Early Cardiovascular Phenotypes in Young Adults. <i>PLoS ONE</i> , 2016 , 11, e0150825	3.7	27
54	A prospective and retrospective analysis of smoking behavior changes in ever smokers with high risk for lung cancer from New Mexico and Pennsylvania. <i>International Journal of Molecular Epidemiology and Genetics</i> , 2016 , 7, 95-104	0.9	1
53	Occupational Health and Safety in Ethiopia: A review of Situational Analysis and Needs Assessment. <i>Ethiopian Journal of Health Development</i> , 2016 , 30, 17-27		12
52	Indoor and Outdoor Air Pollution- related Health Problem in Ethiopia: Review of Related Literature. <i>Ethiopian Journal of Health Development</i> , 2016 , 30, 5-16		20
51	Exhaled NO: Determinants and Clinical Application in Children With Allergic Airway Disease. <i>Allergy, Asthma and Immunology Research</i> , 2016 , 8, 12	5.3	1
50	Particulate matter, the newborn methylome, and cardio-respiratory health outcomes in childhood. <i>Environmental Epigenetics</i> , 2016 , 2, dvw005	2.4	19
49	Exhaled NO: Determinants and Clinical Application in Children With Allergic Airway Disease. <i>Allergy, Asthma and Immunology Research</i> , 2016 , 8, 12-21	5.3	33
48	Air pollution affects lung cancer survival. <i>Thorax</i> , 2016 , 71, 891-8	7.3	79
47	Association of Changes in Air Quality With Bronchitic Symptoms in Children in California, 1993-2012. <i>JAMA - Journal of the American Medical Association</i> , 2016 , 315, 1491-501	27.4	64
46	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,	6	35
45	Association of improved air quality with lung development in children. <i>New England Journal of Medicine</i> , 2015 , 372, 905-13	59.2	371
44	Implication of a Chromosome 15q15.2 Locus in Regulating UBR1 and Predisposing Smokers to MGMT Methylation in Lung. <i>Cancer Research</i> , 2015 , 75, 3108-17	10.1	5
43	15q12 variants, sputum gene promoter hypermethylation, and lung cancer risk: a GWAS in smokers. <i>Journal of the National Cancer Institute</i> , 2015 , 107,	9.7	16
42	Noninvasive analysis of the sputum transcriptome discriminates clinical phenotypes of asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015 , 191, 1116-25	10.2	62
41	Linkage Analysis of Urine Arsenic Species Patterns in the Strong Heart Family Study. <i>Toxicological Sciences</i> , 2015 , 148, 89-100	4.4	14
40	Ethnic-specific associations of rare and low-frequency DNA sequence variants with asthma. <i>Nature Communications</i> , 2015 , 6, 5965	17.4	56
39	Determinants of Children's Exhaled Nitric Oxide: New Insights from Quantile Regression. <i>PLoS ONE</i> , 2015 , 10, e0130505	3.7	2
38	Stress and Bronchodilator Response in Children with Asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015 , 192, 47-56	10.2	71

37	Genetic ancestry influences asthma susceptibility and lung function among Latinos. <i>Journal of Allergy and Clinical Immunology</i> , 2015 , 135, 228-35	11.5	85
36	Genetic Ancestry and Asthma and Rhinitis Occurrence in Hispanic Children: Findings from the Southern California Children's Health Study. <i>PLoS ONE</i> , 2015 , 10, e0135384	3.7	5
35	Chronic effects of air pollution on respiratory health in Southern California children: findings from the Southern California Children's Health Study. <i>Journal of Thoracic Disease</i> , 2015 , 7, 46-58	2.6	60
34	Stem Cells in the Real World: Environmental Impacts 2015 , 485-496		
33	Associations of children's lung function with ambient air pollution: joint effects of regional and near-roadway pollutants. <i>Thorax</i> , 2014 , 69, 540-7	7.3	98
32	A genome-wide survey of CD4(+) lymphocyte regulatory genetic variants identifies novel asthma genes. <i>Journal of Allergy and Clinical Immunology</i> , 2014 , 134, 1153-62	11.5	40
31	Analysis of bisphenol A diglycidyl ether (BADGE) and its hydrolytic metabolites in biological specimens by high-performance liquid chromatography and tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014 , 965, 33-8	3.2	17
30	Determinants of the Spatial Distributions of Elemental Carbon and Particulate Matter in Eight Southern Californian Communities. <i>Atmospheric Environment</i> , 2014 , 86, 84-92	5.3	12
29	Genome-wide association study and admixture mapping identify different asthma-associated loci in Latinos: the Genes-environments & Admixture in Latino Americans study. <i>Journal of Allergy and Clinical Immunology</i> , 2014 , 134, 295-305	11.5	84
28	Prenatal tobacco smoke exposure is associated with childhood DNA CpG methylation. <i>PLoS ONE</i> , 2014 , 9, e99716	3.7	94
27	Longitudinal effects of air pollution on exhaled nitric oxide: the Children's Health Study. <i>Occupational and Environmental Medicine</i> , 2014 , 71, 507-13	2.1	33
26	Genome-wide interaction studies reveal sex-specific asthma risk alleles. <i>Human Molecular Genetics</i> , 2014 , 23, 5251-9	5.6	50
25	Spatial Variation in Particulate Matter Components over a Large Urban Area. <i>Atmospheric Environment</i> , 2014 , 83, 211-219	5.3	25
24	Estimation of parameters in the two-compartment model for exhaled nitric oxide. <i>PLoS ONE</i> , 2014 , 9, e85471	3.7	19
23	Meta-Analysis of Hodgkin Lymphoma and Asthma Genome-Wide Association Scans reveals common variants in GATA3. <i>Blood</i> , 2014 , 124, 135-135	2.2	
22	Multiple-flow exhaled nitric oxide, allergy, and asthma in a population of older children. <i>Pediatric Pulmonology</i> , 2013 , 48, 885-96	3.5	18
21	Meta-analysis of genome-wide association studies of asthma in ethnically diverse North American populations. <i>Nature Genetics</i> , 2011 , 43, 887-92	36.3	605
20	Asthma Bridge: The Asthma Biorepository For Integrative Genomic Exploration 2011 ,		4

19	Childhood incident asthma and traffic-related air pollution at home and school. <i>Environmental Health Perspectives</i> , 2010 , 118, 1021-6	8.4	389
18	Outdoor air pollution, genetic susceptibility, and asthma management: opportunities for intervention to reduce the burden of asthma. <i>Pediatrics</i> , 2009 , 123 Suppl 3, S168-73	7.4	63
17	Extended exhaled nitric oxide analysis in field surveys of schoolchildren: a pilot test. <i>Pediatric Pulmonology</i> , 2009 , 44, 1033-42	3.5	13
16	Microsomal epoxide hydrolase, glutathione S-transferase P1, traffic and childhood asthma. <i>Thorax</i> , 2007 , 62, 1050-7	7.3	68
15	Transforming growth factor- 1 C-509T polymorphism, oxidant stress, and early-onset childhood asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2007 , 176, 1192-9	10.2	77
14	Regular smoking and asthma incidence in adolescents. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006 , 174, 1094-100	10.2	135
13	Traffic, susceptibility, and childhood asthma. <i>Environmental Health Perspectives</i> , 2006 , 114, 766-72	8.4	459
12	Glutathione s-transferases M1 and P1 prevent aggravation of allergic responses by secondhand smoke. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006 , 174, 1335-41	10.2	57
11	Air pollution exposure assessment for epidemiologic studies of pregnant women and children: lessons learned from the Centers for Children's Environmental Health and Disease Prevention Research. <i>Environmental Health Perspectives</i> , 2005 , 113, 1447-54	8.4	66
10	Effect of glutathione-S-transferase M1 and P1 genotypes on xenobiotic enhancement of allergic responses: randomised, placebo-controlled crossover study. <i>Lancet, The</i> , 2004 , 363, 119-25	4.0	270
9	Obesity and the risk of newly diagnosed asthma in school-age children. <i>American Journal of Epidemiology</i> , 2003 , 158, 406-15	3.8	289
8	Children's lung function and antioxidant vitamin, fruit, juice, and vegetable intake. <i>American Journal of Epidemiology</i> , 2003 , 158, 576-84	3.8	107
7	Dietary magnesium, potassium, sodium, and children's lung function. <i>American Journal of Epidemiology</i> , 2002 , 155, 125-31	3.8	30
6	Effects of glutathione S-transferase P1, M1, and T1 on acute respiratory illness in school children. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002 , 166, 346-51	10.2	37
5	Asthma in exercising children exposed to ozone: a cohort study. <i>Lancet, The</i> , 2002 , 359, 386-91	4.0	553
4	Glutathione S-transferase P1 and NADPH quinone oxidoreductase polymorphisms are associated with aberrant promoter methylation of P16(INK4a) and O(6)-methylguanine-DNA methyltransferase in sputum. <i>Cancer Research</i> , 2002 , 62, 2248-52	10.1	36
3	Quality-of-life outcomes after primary androgen deprivation therapy: results from the Prostate Cancer Outcomes Study. <i>Journal of Clinical Oncology</i> , 2001 , 19, 3750-7	2.2	201
2	The effects of ambient air pollution on school absenteeism due to respiratory illnesses. <i>Epidemiology</i> , 2001 , 12, 43-54	3.1	174

1	Increasing incidence of colon and rectal cancer among Hispanics and American Indians in New Mexico (United States), 1969-94. <i>Cancer Causes and Control</i> , 1998 , 9, 137-44	2.8	31
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