Kalpana Balakrishnan

List of Publications by Year in Descending Order

125 papers	54,777 citations	55 h-index	147 g-index
147 ext. papers	66,746 ext. citations	12.6 avg, IF	7.63 L-index

#	Paper	IF	Citations
125	Child Survival and Early Lifetime Exposures to Ambient Fine Particulate Matter in India: A Retrospective Cohort Study.. *Environmental Health Perspectives*, **2022**, 130, 17009	8.4	1
124	Association between personal exposure to household air pollution and gestational blood pressure among women using solid cooking fuels in rural Tamil Nadu, India.. *Environmental Research*, **2022**, 208, 112756	7.9	0
123	The relationship between greenspace and personal exposure to PM during walking trips in Delhi, India.. *Environmental Pollution*, **2022**, 119294	9.3	1
122	Association of Ambient and Household Air Pollution with Lung Function in Young Adults in an Peri-urban Area of South-India: A cross-sectional study. *Environment International*, **2022**, 107290	12.9	0
121	Maternal Vitamin B Status and Risk of Cleft Lip and Cleft Palate Birth Defects in Tamil Nadu State, India. *Cleft Palate-Craniofacial Journal*, **2021**, 58, 567-576	1.9	3
120	Developing Visual Messages to Support Liquefied Petroleum Gas Use in Intervention Homes in the Household Air Pollution Intervention Network (HAPIN) Trial in Rural Guatemala. *Health Education and Behavior*, **2021**, 48, 651-669	4.2	3
119	A risk assessment tool for resumption of research activities during the COVID-19 pandemic for field trials in low resource settings. *BMC Medical Research Methodology*, **2021**, 21, 68	4.7	2
118	Ultrasound Core Laboratory for the Household Air Pollution Intervention Network Trial: Standardized Training and Image Management for Field Studies Using Portable Ultrasound in Fetal, Lung, and Vascular Evaluations. *Ultrasound in Medicine and Biology*, **2021**, 47, 1506-1513	3.5	1
117	Evaluation of health risks associated with exposure to volatile organic compounds from household fuel combustion in southern India. *Environmental Advances*, **2021**, 4, 100043	3.5	1
116	Health and economic impact of air pollution in the states of India: the Global Burden of Disease Study 2019. *Lancet Planetary Health, The*, **2021**, 5, e25-e38	9.8	78
115	Impact of acute exposure to ambient PM2.5 on non-trauma all-cause mortality in the megacity Delhi. *Atmospheric Environment*, **2021**, 259, 118548	5.3	0
114	LPG stove and fuel intervention among pregnant women reduce fine particle air pollution exposures in three countries: Pilot results from the HAPIN trial. *Environmental Pollution*, **2021**, 291, 118198	9.3	4
113	Personal exposure to particulate air pollution and vascular damage in peri-urban South India. *Environment International*, **2020**, 139, 105734	12.9	3
112	Comparing regional stove-usage patterns and using those patterns to model indoor air quality impacts. *Indoor Air*, **2020**, 30, 521-533	5.4	4
111	Design and Rationale of the Biomarker Center of the Household Air Pollution Intervention Network (HAPIN) Trial. *Environmental Health Perspectives*, **2020**, 128, 47010	8.4	12
110	Design and Rationale of the HAPIN Study: A Multicountry Randomized Controlled Trial to Assess the Effect of Liquefied Petroleum Gas Stove and Continuous Fuel Distribution. *Environmental Health Perspectives*, **2020**, 128, 47008	8.4	43
109	Air Pollutant Exposure and Stove Use Assessment Methods for the Household Air Pollution Intervention Network (HAPIN) Trial. *Environmental Health Perspectives*, **2020**, 128, 47009	8.4	16

108	Quantifying risks and interventions that have affected the burden of diarrhoea among children younger than 5 years: an analysis of the Global Burden of Disease Study 2017. *Lancet Infectious Diseases, The*, **2020**, 20, 37-59	25.5	37
107	Quantifying risks and interventions that have affected the burden of lower respiratory infections among children younger than 5 years: an analysis for the Global Burden of Disease Study 2017. *Lancet Infectious Diseases, The*, **2020**, 20, 60-79	25.5	46
106	Comparison of next-generation portable pollution monitors to measure exposure to PM from household air pollution in Puno, Peru. *Indoor Air*, **2020**, 30, 445-458	5.4	6
105	Designing a comprehensive behaviour change intervention to promote and monitor exclusive use of liquefied petroleum gas stoves for the Household Air Pollution Intervention Network (HAPIN) trial. *BMJ Open*, **2020**, 10, e037761	3	11
104	Cross-validation of biomonitoring methods for polycyclic aromatic hydrocarbon metabolites in human urine: Results from the formative phase of the Household Air Pollution Intervention Network (HAPIN) trial in India. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2020**, 1154, 122284	3.2	2
103	Exposure contrasts associated with a liquefied petroleum gas (LPG) intervention at potential field sites for the multi-country household air pollution intervention network (HAPIN) trial in India: results from pilot phase activities in rural Tamil Nadu. *BMC Public Health*, **2020**, 20, 1799	4.1	7
102	Design and conduct of facility-based surveillance for severe childhood pneumonia in the Household Air Pollution Intervention Network (HAPIN) trial. *ERJ Open Research*, **2020**, 6,	3.5	6
101	Marriage-based pilot clean household fuel intervention in India for improved pregnancy outcomes. *BMJ Open*, **2020**, 10, e044127	3	0
100	Association between ambient and household air pollution with carotid intima-media thickness in peri-urban South India: CHAI-Project. *International Journal of Epidemiology*, **2020**, 49, 69-79	7.8	10
99	Personal exposure to particulate matter in peri-urban India: predictors and association with ambient concentration at residence. *Journal of Exposure Science and Environmental Epidemiology*, **2020**, 30, 596-605	6.7	16
98	Challenges in the diagnosis of paediatric pneumonia in intervention field trials: recommendations from a pneumonia field trial working group. *Lancet Respiratory Medicine,the*, **2019**, 7, 1068-1083	35.1	19
97	Promoting LPG usage during pregnancy: A pilot study in rural Maharashtra, India. *Environment International*, **2019**, 127, 540-549	12.9	31
96	Associations between High Temperature, Heavy Rainfall, and Diarrhea among Young Children in Rural Tamil Nadu, India: A Prospective Cohort Study. *Environmental Health Perspectives*, **2019**, 127, 47004	8.4	19
95	Compensating control participants when the intervention is of significant value: experience in Guatemala, India, Peru and Rwanda. *BMJ Global Health*, **2019**, 4, e001567	6.6	6
94	Solid Fuels: Health Effects **2019**, 753-759		
93	The impact of air pollution on deaths, disease burden, and life expectancy across the states of India: the Global Burden of Disease Study 2017. *Lancet Planetary Health, The*, **2019**, 3, e26-e39	9.8	335
92	Development of land-use regression models for fine particles and black carbon in peri-urban South India. *Science of the Total Environment*, **2018**, 634, 77-86	10.2	23
91	Exposures to fine particulate matter (PM) and birthweight in a rural-urban, mother-child cohort in Tamil Nadu, India. *Environmental Research*, **2018**, 161, 524-531	7.9	62

90	Associations between household air pollution and reduced lung function in women and children in rural southern India. *Journal of Applied Toxicology*, **2018**, 38, 1405-1415	4.1	13
89	Exposures to PM2.5 Associated with LPG Stove and Fuel Interventions in Four Countries: Pilot Results from the HAPIN Trial. *ISEE Conference Abstracts*, **2018**, 2018,	2.9	4
88	Global, regional, and national age-sex-specific mortality and life expectancy, 1950-2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet, The*, **2018**, 392, 1684-1735	40	483
87	Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet, The*, **2018**, 392, 1923-1994	40	1964
86	Measuring progress from 1990 to 2017 and projecting attainment to 2030 of the health-related Sustainable Development Goals for 195 countries and territories: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet, The*, **2018**, 392, 2091-2138	40	210
85	Global, regional, and national disability-adjusted life-years (DALYs) for 359 diseases and injuries and healthy life expectancy (HALE) for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet, The*, **2018**, 392, 1859-1922	40	1283
84	A Low-Cost Stove Use Monitor to Enable Conditional Cash Transfers. *EcoHealth*, **2018**, 15, 768-776	3.1	5
83	Global household air pollution database: Kitchen concentrations and personal exposures of particulate matter and carbon monoxide. *Data in Brief*, **2018**, 21, 1292-1295	1.2	13
82	Estimates of the global, regional, and national morbidity, mortality, and aetiologies of lower respiratory infections in 195 countries, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016. *Lancet Infectious Diseases, The*, **2018**, 18, 1191-1210	25.5	534
81	The burden of chronic respiratory diseases and their heterogeneity across the states of India: the Global Burden of Disease Study 1990-2016. *The Lancet Global Health*, **2018**, 6, e1363-e1374	13.6	122
80	Air pollution health research priorities for India: Perspectives of the Indo-U.S. Communities of Researchers. *Environment International*, **2018**, 119, 100-108	12.9	41
79	Estimates and 25-year trends of the global burden of disease attributable to ambient air pollution: an analysis of data from the Global Burden of Diseases Study 2015. *Lancet, The*, **2017**, 389, 1907-1918	40	2658
78	Integrated assessment of exposure to PM in South India and its relation with cardiovascular risk: Design of the CHAI observational cohort study. *International Journal of Hygiene and Environmental Health*, **2017**, 220, 1081-1088	6.9	35
77	Implementation Science to Accelerate Clean Cooking for Public Health. *Environmental Health Perspectives*, **2017**, 125, A3-A7	8.4	56
76	Assessing Exposure to Household Air Pollution: A Systematic Review and Pooled Analysis of Carbon Monoxide as a Surrogate Measure of Particulate Matter. *Environmental Health Perspectives*, **2017**, 125, 076002	8.4	47
75	Global, regional, and national under-5 mortality, adult mortality, age-specific mortality, and life expectancy, 1970-2016: a systematic analysis for the Global Burden of Disease Study 2016. *Lancet, The*, **2017**, 390, 1084-1150	40	421
74	Global, regional, and national disability-adjusted life-years (DALYs) for 333 diseases and injuries and healthy life expectancy (HALE) for 195 countries and territories, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016. *Lancet, The*, **2017**, 390, 1260-1344	40	1152
73	Global, regional, and national age-sex specific mortality for 264 causes of death, 1980-2016: a systematic analysis for the Global Burden of Disease Study 2016. *Lancet, The*, **2017**, 390, 1151-1210	40	2542

72	Global, regional, and national incidence, prevalence, and years lived with disability for 328 diseases and injuries for 195 countries, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016. *Lancet, The*, **2017**, 390, 1211-1259	40	3432
71	Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016. *Lancet, The*, **2017**, 390, 1345-1422	40	1378
70	Measuring progress and projecting attainment on the basis of past trends of the health-related Sustainable Development Goals in 188 countries: an analysis from the Global Burden of Disease Study 2016. *Lancet, The*, **2017**, 390, 1423-1459	40	224
69	Nations within a nation: variations in epidemiological transition across the states of India, 1990-2016 in the Global Burden of Disease Study. *Lancet, The*, **2017**, 390, 2437-2460	40	391
68	Tackling the health burden of air pollution in South Asia. *BMJ, The*, **2017**, 359, j5209	5.9	11
67	Ambient Air Pollution Exposure Estimation for the Global Burden of Disease 2013. *Environmental Science & Technology*, **2016**, 50, 79-88	10.3	682
66	Global, regional, and national levels of maternal mortality, 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015. *Lancet, The*, **2016**, 388, 1775-1812	40	476
65	Global, regional, and national disability-adjusted life-years (DALYs) for 315 diseases and injuries and healthy life expectancy (HALE), 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015. *Lancet, The*, **2016**, 388, 1603-1658	40	1216
64	Global, regional, and national life expectancy, all-cause mortality, and cause-specific mortality for 249 causes of death, 1980-2015: a systematic analysis for the Global Burden of Disease Study 2015. *Lancet, The*, **2016**, 388, 1459-1544	40	3525
63	Global, regional, and national incidence, prevalence, and years lived with disability for 310 diseases and injuries, 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015. *Lancet, The*, **2016**, 388, 1545-1602	40	3801
62	Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks, 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015. *Lancet, The*, **2016**, 388, 1659-1724	40	2431
61	Global, regional, national, and selected subnational levels of stillbirths, neonatal, infant, and under-5 mortality, 1980-2015: a systematic analysis for the Global Burden of Disease Study 2015. *Lancet, The*, **2016**, 388, 1725-1774	40	413
60	Measuring the health-related Sustainable Development Goals in 188 countries: a baseline analysis from the Global Burden of Disease Study 2015. *Lancet, The*, **2016**, 388, 1813-1850	40	302
59	Can currently available advanced combustion biomass cook-stoves provide health relevant exposure reductions? Results from initial assessment of select commercial models in India. *EcoHealth*, **2015**, 12, 25-41	3.1	60
58	Assessing exposures to household air pollution in public health research and program evaluation. *EcoHealth*, **2015**, 12, 57-67	3.1	20
57	WHO indoor air quality guidelines on household fuel combustion: Strategy implications of new evidence on interventions and exposure–risk functions. *Atmospheric Environment*, **2015**, 106, 451-457	5.3	137
56	Perception and prevalence of work-related health hazards among health care workers in public health facilities in southern India. *International Journal of Occupational and Environmental Health*, **2015**, 21, 74-81		26
55	Establishing integrated rural-urban cohorts to assess air pollution-related health effects in pregnant women, children and adults in Southern India: an overview of objectives, design and methods in the Tamil Nadu Air Pollution and Health Effects (TAPHE) study. *BMJ Open*, **2015**, 5, e008090	3	27

54	Global, regional, and national disability-adjusted life years (DALYs) for 306 diseases and injuries and healthy life expectancy (HALE) for 188 countries, 1990-2013: quantifying the epidemiological transition. *Lancet, The*, **2015**, 386, 2145-91	40	1203
53	Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet, The*, **2015**, 386, 2287-323	40	1776
52	Global, regional, and national age-sex specific all-cause and cause-specific mortality for 240 causes of death, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet, The* , **2015**, 385, 117-71	40	4599
51	Household Air Pollution Exposures of Pregnant Women Receiving Advanced Combustion Cookstoves in India: Implications for Intervention. *Annals of Global Health*, **2015**, 81, 375-85	3.3	42
50	Reactivity in rapidly collected hygiene and toilet spot check measurements: a cautionary note for longitudinal studies. *American Journal of Tropical Medicine and Hygiene*, **2015**, 92, 159-62	3.2	19
49	Global, regional, and national incidence, prevalence, and years lived with disability for 301 acute and chronic diseases and injuries in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet, The*, **2015**, 386, 743-800	40	3802
48	Global, regional, and national incidence and mortality for HIV, tuberculosis, and malaria during 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet, The*, **2014**, 384, 1005-70	40	653
47	Respiratory risks from household air pollution in low and middle income countries. *Lancet Respiratory Medicine,the*, **2014**, 2, 823-60	35.1	459
46	Global, regional, and national levels and causes of maternal mortality during 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet, The*, **2014**, 384, 980-1004	40	950
45	Millions dead: how do we know and what does it mean? Methods used in the comparative risk assessment of household air pollution. *Annual Review of Public Health*, **2014**, 35, 185-206	20.6	417
44	Associations between extreme precipitation and gastrointestinal-related hospital admissions in Chennai, India. *Environmental Health Perspectives*, **2014**, 122, 249-54	8.4	35
43	Household Air Pollution Related to Solid Cookfuel Use: The Exposure and Health Situation in Developing Countries. *Handbook of Environmental Chemistry*, **2014**, 125-144	0.8	2
42	Patterns of stove usage after introduction of an advanced cookstove: the long-term application of household sensors. *Environmental Science & Technology*, **2014**, 48, 14525-33	10.3	77
41	Use of Ventilation-Index in the Development of Exposure Model for Indoor Air Pollution A Review. *Open Journal of Air Pollution*, **2014**, 03, 33-41	0.7	10
40	A spatially disaggregated time-series analysis of the short-term effects of particulate matter exposure on mortality in Chennai, India. *Air Quality, Atmosphere and Health*, **2013**, 6, 111-121	5.6	22
39	State and national household concentrations of PM2.5 from solid cookfuel use: results from measurements and modeling in India for estimation of the global burden of disease. *Environmental Health*, **2013**, 12, 77	6	113
38	Control of household air pollution for child survival: estimates for intervention impacts. *BMC Public Health*, **2013**, 13 Suppl 3, S8	4.1	60
37	Household fuels, low birth weight, and neonatal death in India: the separate impacts of biomass, kerosene, and coal. *International Journal of Hygiene and Environmental Health*, **2013**, 216, 523-32	6.9	112

36	Cleaner cooking solutions to achieve health, climate, and economic cobenefits. *Environmental Science & Technology*, **2013**, 47, 3944-52	10.3	131
35	Energy and human health. *Annual Review of Public Health*, **2013**, 34, 159-88	20.6	185
34	Effect modification by transferrin C2 polymorphism on lead exposure, hemoglobin levels, and IQ. *NeuroToxicology*, **2013**, 38, 17-22	4.4	13
33	Health and household air pollution from solid fuel use: the need for improved exposure assessment. *Environmental Health Perspectives*, **2013**, 121, 1120-8	8.4	178
32	H2S as an indicator of water supply vulnerability and health risk in low-resource settings: a prospective cohort study. *American Journal of Tropical Medicine and Hygiene*, **2013**, 89, 251-9	3.2	24
31	A comparative risk assessment of burden of disease and injury attributable to 67 risk factors and risk factor clusters in 21 regions, 1990-2010: a systematic analysis for the Global Burden of Disease Study 2010. *Lancet, The*, **2012**, 380, 2224-60	40	7625
30	Characterization of indoor bioaerosols from a hospital ward in a tropical setting. *African Health Sciences*, **2012**, 12, 217-25	1.1	35
29	Cooking practices, air quality, and the acceptability of advanced cookstoves in Haryana, India: an exploratory study to inform large-scale interventions. *Global Health Action*, **2012**, 5, 1-13	3	106
28	Ecohealth Research for Mitigating Health Risks of Stone Crushing and Quarrying, India **2012**, 99-108		1
27	Lead exposure and visual-motor abilities in children from Chennai, India. *NeuroToxicology*, **2011**, 32, 465-70	4.4	5
26	Exposure to respirable particulates and silica in and around the stone crushing units in central India. *Industrial Health*, **2011**, 49, 221-7	2.5	6
25	The Impact of Climate Change on Public Health in India: Future Research Directions. *Epidemiology*, **2011**, 22, S21	3.1	
24	Indoor Air Pollution due to Biomass Fuel Combustion and Acute Respiratory Infection in Children Under 5 in Trichy District of Rural Tamilnadu, India. *Epidemiology*, **2011**, 22, S104	3.1	3
23	IQ and Blood Lead Levels: Effect Modification By ALAD Amongst Children in Chennai, India. *Epidemiology*, **2011**, 22, S135-S136	3.1	
22	Evaluation of mucociliary clearance among women using biomass and clean fuel in a periurban area of Chennai: A preliminary study. *Lung India*, **2011**, 28, 30-3	1.1	9
21	Development and Application of Spatially Disaggregated Exposure Series in Time-series Analyses of Air Pollution-related Health Effects in Chennai, India. *Epidemiology*, **2011**, 22, S81-S82	3.1	2
20	Hemoglobin, lead exposure, and intelligence quotient: effect modification by the DRD2 Taq IA polymorphism. *Environmental Health Perspectives*, **2011**, 119, 144-9	8.4	23
19	Air pollution from household solid fuel combustion in India: an overview of exposure and health related information to inform health research priorities. *Global Health Action*, **2011**, 4,	3	61

18	Prevalence of chronic obstructive pulmonary disease in rural women of Tamilnadu: implications for refining disease burden assessments attributable to household biomass combustion. *Global Health Action*, **2011**, 4, 7226	3	55
17	Impacts of climate change on public health in India: future research directions. *Environmental Health Perspectives*, **2011**, 119, 765-70	8.4	54
16	Part 1. Short-term effects of air pollution on mortality: results from a time-series analysis in Chennai, India. *Research Report (health Effects Institute)*, **2011**, 7-44	0.9	6
15	Causal inference methods to study nonrandomized, preexisting development interventions. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 22605-10	11.5	63
14	Case studies on heat stress related perceptions in different industrial sectors in southern India. *Global Health Action*, **2010**, 3,	3	21
13	Predictors of blood lead in children in Chennai, India (2005-2006). *International Journal of Occupational and Environmental Health*, **2009**, 15, 351-9		13
12	Work-related heat stress concerns in automotive industries: a case study from Chennai, India. *Global Health Action*, **2009**, 2,	3	30
11	Lead exposure and behavior among young children in Chennai, India. *Environmental Health Perspectives*, **2009**, 117, 1607-11	8.4	101
10	Reduction of respirable silica following the introduction of water spray applications in Indian stone crusher mills. *International Journal of Occupational and Environmental Health*, **2008**, 14, 94-103		11
9	Particulate Matter from Stone Crushing Industry: Size Distribution and Health Effects. *Journal of Environmental Engineering, ASCE*, **2006**, 132, 405-414	2	22
8	Geographical, spatial, and temporal distributions of multiple indoor air pollutants in four Chinese provinces. *Environmental Science & Technology*, **2005**, 39, 9431-9	10.3	68
7	Patterns of household concentrations of multiple indoor air pollutants in China. *Environmental Science & Technology*, **2005**, 39, 991-8	10.3	52
6	A pilot study of blood lead levels and neurobehavioral function in children living in Chennai, India. *International Journal of Occupational and Environmental Health*, **2005**, 11, 138-43		26
5	Exposure assessment for respirable particulates associated with household fuel use in rural districts of Andhra Pradesh, India. *Journal of Exposure Science and Environmental Epidemiology*, **2004**, 14 Suppl 1, S14-25	6.7	129
4	Environmental threats to children's health in Southeast Asia and the Western Pacific. *Environmental Health Perspectives*, **2003**, 111, 1340-7	8.4	57
3	Daily average exposures to respirable particulate matter from combustion of biomass fuels in rural households of southern India. *Environmental Health Perspectives*, **2002**, 110, 1069-75	8.4	191
2	Exposure from cooking with biofuels: pollution monitoring and analysis for rural Tamil Nadu, India. *Energy*, **2001**, 26, 949-962	7.9	65
1	Energy and Health255-324		11