Josef Cyrys

List of Publications by Year in descending order

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139 papers	12,177 citations	20817 60 h-index	26613 107 g-index
144 all docs	144 docs citations	144 times ranked	11897 citing authors

#	Article	IF	Citations
1	Development of NO2 and NOx land use regression models for estimating air pollution exposure in 36 study areas in Europe â€“ The ESCAPE project. Atmospheric Environment, 2013, 72, 10-23.	4.1	719
2	Health effects of particulate air pollution: A review of epidemiological evidence. Inhalation Toxicology, 2011, 23, 555-592.	1.6	524
3	Atopic Diseases, Allergic Sensitization, and Exposure to Traffic-related Air Pollution in Children. American Journal of Respiratory and Critical Care Medicine, 2008, 177, 1331-1337.	5.6	498
4	Spatial variation of PM2.5, PM10, PM2.5 absorbance and PMcoarse concentrations between and within 20 European study areas and the relationship with NO2 â€“ Results of the ESCAPE project. Atmospheric Environment, 2012, 62, 303-317.	4.1	392
5	Estimating Long-Term Average Particulate Air Pollution Concentrations: Application of Traffic Indicators and Geographic Information Systems. Epidemiology, 2003, 14, 228-239.	2.7	361
6	Title is missing!. Epidemiology, 2003, 14, 228-239.	2.7	348
7	Air Pollution and Markers of Inflammation and Coagulation in Patients with Coronary Heart Disease. American Journal of Respiratory and Critical Care Medicine, 2006, 173, 432-441.	5.6	340
8	Air Pollution Exposure and Lung Function in Children: The ESCAPE Project. Environmental Health Perspectives, 2013, 121, 1357-1364.	6.0	320
9	Adult lung function and long-term air pollution exposure. ESCAPE: a multicentre cohort study and meta-analysis. European Respiratory Journal, 2015, 45, 38-50.	6.7	297
10	Long-Term Exposure to Ambient Air Pollution and Incidence of Cerebrovascular Events: Results from 11 European Cohorts within the ESCAPE Project. Environmental Health Perspectives, 2014, 122, 919-925.	6.0	285
11	Variation of NO2 and NOx concentrations between and within 36 European study areas: Results from the ESCAPE study. Atmospheric Environment, 2012, 62, 374-390.	4.1	274
12	Long-term Exposure to Air Pollution and Cardiovascular Mortality. Epidemiology, 2014, 25, 368-378.	2.7	272
13	Air Pollution and Respiratory Infections during Early Childhood: An Analysis of 10 European Birth Cohorts within the ESCAPE Project. Environmental Health Perspectives, 2014, 122, 107-113.	6.0	224
14	Daily mortality and particulate matter in different size classes in Erfurt, Germany. Journal of Exposure Science and Environmental Epidemiology, 2007, 17, 458-467.	3.9	204
15	Comparison between different traffic-related particle indicators: Elemental carbon (EC), PM2.5 mass, and absorbance. Journal of Exposure Science and Environmental Epidemiology, 2003, 13, 134-143.	3.9	191
16	Traffic-Related Atmospheric Pollutants Levels during Pregnancy and Offspringâ€™s Term Birth Weight: A Study Relying on a Land-Use Regression Exposure Model. Environmental Health Perspectives, 2007, 115, 1283-1292.	6.0	189
17	Air Temperature and the Occurrence of Myocardial Infarction in Augsburg, Germany. Circulation, 2009, 120, 735-742.	1.6	182
18	Ultrafine particles and platelet activation in patients with coronary heart disease--results from a prospective panel study. Particle and Fibre Toxicology, 2007, 4, 1.	6.2	174

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19	Spatial variability of fine particle concentrations in three European areas. Atmospheric Environment, 2002, 36, 4077-4088.	4.1	171
20	Association of ambient air pollution with the prevalence and incidence of COPD. European Respiratory Journal, 2014, 44, 614-626.	6.7	163
21	Genome-Wide Analysis of DNA Methylation and Fine Particulate Matter Air Pollution in Three Study Populations: KORA F3, KORA F4, and the Normative Aging Study. Environmental Health Perspectives, 2016, 124, 983-990.	6.0	150
22	Two-way effect modifications of air pollution and air temperature on total natural and cardiovascular mortality in eight European urban areas. Environment International, 2018, 116, 186-196.	10.0	145
23	Long-term exposure to ambient air pollution and traffic noise and incident hypertension in seven cohorts of the European study of cohorts for air pollution effects (ESCAPE). European Heart Journal, 2017, 38, ehw413.	2.2	128
24	Long-term exposure to elemental constituents of particulate matter and cardiovascular mortality in 19 European cohorts: Results from the ESCAPE and TRANSPHORM projects. Environment International, 2014, 66, 97-106.	10.0	127
25	A global observational analysis to understand changes in air quality during exceptionally low anthropogenic emission conditions. Environment International, 2021, 157, 106818.	10.0	126
26	Long-term exposure to air pollution is associated with biological aging. Oncotarget, 2016, 7, 74510-74525.	1.8	126
27	Relationship between indoor and outdoor levels of fine particle mass, particle number concentrations and black smoke under different ventilation conditions. Journal of Exposure Science and Environmental Epidemiology, 2004, 14, 275-283.	3.9	125
28	Spatial and temporal variation of particle number concentration in Augsburg, Germany. Science of the Total Environment, 2008, 401, 168-175.	8.0	122
29	Associations between ambient air pollution and blood markers of inflammation and coagulation/fibrinolysis in susceptible populations. Environment International, 2014, 70, 32-49.	10.0	121
30	Variability of Apparent Particle Density of an Urban Aerosol. Environmental Science & Technology, 2003, 37, 4336-4342.	10.0	119
31	A multicentre study of air pollution exposure and childhood asthma prevalence: the ESCAPE project. European Respiratory Journal, 2015, 45, 610-624.	6.7	119
32	Repolarization Changes Induced by Air Pollution in Ischemic Heart Disease Patients. Environmental Health Perspectives, 2005, 113, 440-446.	6.0	118
33	Land use regression modeling of ultrafine particles, ozone, nitrogen oxides and markers of particulate matter pollution in Augsburg, Germany. Science of the Total Environment, 2017, 579, 1531-1540.	8.0	115
34	Source apportionment of ambient particles: Comparison of positive matrix factorization analysis applied to particle size distribution and chemical composition data. Atmospheric Environment, 2011, 45, 1849-1857.	4.1	114
35	Improved Air Quality in Reunified Germany and Decreases in Respiratory Symptoms. Epidemiology, 2002, 13, 394-401.	2.7	111
36	Ultrafine particles and PM2.5 in the air of cities around the world: Are they representative of each other?. Environment International, 2019, 129, 118-135.	10.0	110

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37	Comparing land use regression and dispersion modelling to assess residential exposure to ambient air pollution for epidemiological studies. Environment International, 2014, 73, 382-392.	10.0	109
38	Aerosol Particle Number Concentration Measurements in Five European Cities Using TSI-3022 Condensation Particle Counter over a Three-Year Period during Health Effects of Air Pollution on Susceptible Subpopulations. Journal of the Air and Waste Management Association, 2005, 55, 1064-1076.	1.9	104
39	Associations between Traffic Noise, Particulate Air Pollution, Hypertension, and Isolated Systolic Hypertension in Adults: The KORA Study. Environmental Health Perspectives, 2014, 122, 492-498.	6.0	101
40	Spatial variation in nitrogen dioxide in three European areas. Science of the Total Environment, 2004, 332, 217-230.	8.0	97
41	Associations between ultrafine and fine particles and mortality in five central European cities â€" Results from the UFIREG study. Environment International, 2016, 88, 44-52.	10.0	95
42	Sub-micrometer particulate air pollution and cardiovascular mortality in Beijing, China. Science of the Total Environment, 2011, 409, 5196-5204.	8.0	90
43	Ambient source-specific particles are associated with prolonged repolarization and increased levels of inflammation in male coronary artery disease patients. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2007, 621, 50-60.	1.0	89
44	GIS-Based Estimation of Exposure to Particulate Matter and NO 2 in an Urban Area: Stochastic versus Dispersion Modeling. Environmental Health Perspectives, 2005, 113, 987-992.	6.0	86
45	Seasonal and Diurnal Variation of PM_{2.5} Apparent Particle Density in Urban Air in Augsburg, Germany. Environmental Science & Technology, 2008, 42, 5087-5093.	10.0	81
46	Size-fractioned particulate air pollution and cardiovascular emergency room visits in Beijing, China. Environmental Research, 2013, 121, 52-63.	7.5	80
47	Seasonal variability of endotoxin in ambient fine particulate matter. Journal of Environmental Monitoring, 2003, 5, 953.	2.1	79
48	Long-term effects of elemental composition of particulate matter on inflammatory blood markers in European cohorts. Environment International, 2015, 82, 76-84.	10.0	77
49	Size-Segregated Particle Number Concentrations and Respiratory Emergency Room Visits in Beijing, China. Environmental Health Perspectives, 2011, 119, 508-513.	6.0	75
50	Source apportionment of ambient fine particle size distribution using positive matrix factorization in Erfurt, Germany. Science of the Total Environment, 2008, 398, 133-144.	8.0	73
51	Association Between Short-term Exposure to Ultrafine Particles and Mortality in Eight European Urban Areas. Epidemiology, 2017, 28, 172-180.	2.7	73
52	Air pollution, health and social deprivation: A fine-scale risk assessment. Environmental Research, 2016, 147, 59-70.	7.5	71
53	Association of lung function with declining ambient air pollution.. Environmental Health Perspectives, 2003, 111, 383-387.	6.0	70
54	Wintertime PM10 and black smoke concentrations across Europe: results from the peace study. Atmospheric Environment, 1997, 31, 3609-3622.	4.1	69

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55	Short-Term Mortality Rates during a Decade of Improved Air Quality in Erfurt, Germany. Environmental Health Perspectives, 2009, 117, 448-454.	6.0	69
56	Runs of Ventricular and Supraventricular Tachycardia Triggered by Air Pollution in Patients with Coronary Heart Disease. Journal of Occupational and Environmental Medicine, 2006, 48, 1149-1158.	1.7	68
57	Long-term Exposure to Particulate Matter Constituents and the Incidence of Coronary Events in 11 European Cohorts. Epidemiology, 2015, 26, 565-574.	2.7	68
58	Air Pollution and Atherosclerosis: A Cross-Sectional Analysis of FourEuropean Cohort Studies in the ESCAPE Study. Environmental Health Perspectives, 2015, 123, 597-605.	6.0	66
59	Diverging long-term trends in ambient urban particle mass and number concentrations associated with emission changes caused by the German unification. Atmospheric Environment, 2003, 37, 3841-3848.	4.1	65
60	Long-term observations of tropospheric particle number size distributions and equivalent black carbon mass concentrations in the German Ultrafine Aerosol Network (GUAN). Earth System Science Data, 2016, 8, 355-382.	9.9	63
61	A longitudinal analysis of associations between traffic-related air pollution with asthma, allergies and sensitization in the GINIplus and LISAplus birth cohorts. PeerJ, 2013, 1, e193.	2.0	62
62	Performance of Multi-City Land Use Regression Models for Nitrogen Dioxide and Fine Particles. Environmental Health Perspectives, 2014, 122, 843-849.	6.0	61
63	Long-term associations of modeled and self-reported measures of exposure to air pollution and noise at residence on prevalent hypertension and blood pressure. Science of the Total Environment, 2017, 593-594, 337-346.	8.0	60
64	Concentration of Oxygenated Polycyclic Aromatic Hydrocarbons and Oxygen Free Radical Formation from Urban Particulate Matter. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2007, 70, 1866-1869.	2.3	59
65	Elemental Composition of Particulate Matter and the Association with Lung Function. Epidemiology, 2014, 25, 648-657.	2.7	59
66	Methylome-wide association study provides evidence of particulate matter air pollution-associated DNA methylation. Environment International, 2019, 132, 104723.	10.0	58
67	PM2.5 measurements in ambient aerosol: comparison between Harvard impactor (HI) and the tapered element oscillating microbalance (TEOM) system. Science of the Total Environment, 2001, 278, 191-197.	8.0	52
68	Relationship between different size classes of particulate matter and meteorology in three European cities. Journal of Environmental Monitoring, 2005, 7, 302.	2.1	52
69	Evaluation of the Impact of Low Emission Zone and Heavy Traffic Ban in Munich (Germany) on the Reduction of PM10 in Ambient Air. International Journal of Environmental Research and Public Health, 2014, 11, 5094-5112.	2.6	51
70	Ultrafine and Fine Particles and Hospital Admissions in Central Europe. Results from the UFIREG Study. American Journal of Respiratory and Critical Care Medicine, 2016, 194, 1233-1241.	5.6	51
71	Spatial variation of PM elemental composition between and within 20 European study areas â€" Results of the ESCAPE project. Environment International, 2015, 84, 181-192.	10.0	49
72	Effect of NOx and NO2 Concentration Increase in Ambient Air to Daily Bronchitis and Asthma Exacerbation, Silesian Voivodeship in Poland. International Journal of Environmental Research and Public Health, 2020, 17, 754.	2.6	49

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73	Associations between short-term exposure to particulate matter and ultrafine particles and myocardial infarction in Augsburg, Germany. International Journal of Hygiene and Environmental Health, 2015, 218, 535-542.	4.3	47
74	Hourly Exposure to Ultrafine Particle Metrics and the Onset of Myocardial Infarction in Augsburg, Germany. Environmental Health Perspectives, 2020, 128, 17003.	6.0	47
75	Spatial variations of PAH, hopanes/steranes and EC/OC concentrations within and between European study areas. Atmospheric Environment, 2014, 87, 239-248.	4.1	46
76	Elevated particle number concentrations induce immediate changes in heart rate variability: a panel study in individuals with impaired glucose metabolism or diabetes. Particle and Fibre Toxicology, 2015, 12, 7.	6.2	46
77	C-reactive protein (CRP) and long-term air pollution with a focus on ultrafine particles. International Journal of Hygiene and Environmental Health, 2018, 221, 510-518.	4.3	45
78	Low emission zones reduce PM₁₀ mass concentrations and diesel soot in German cities. Journal of the Air and Waste Management Association, 2014, 64, 481-487.	1.9	44
79	Lessons From Air Pollution Epidemiology for Studies of Engineered Nanomaterials. Journal of Occupational and Environmental Medicine, 2011, 53, S8-S13.	1.7	43
80	Assessing responses of cardiovascular mortality to particulate matter air pollution for pre-, during- and post-2008 Olympics periods. Environmental Research, 2015, 142, 112-122.	7.5	43
81	Short-term effects of air temperature on blood markers of coagulation and inflammation in potentially susceptible individuals. Occupational and Environmental Medicine, 2012, 69, 670-678.	2.8	42
82	Short-term effects of air temperature on blood pressure and pulse pressure in potentially susceptible individuals. International Journal of Hygiene and Environmental Health, 2014, 217, 775-784.	4.3	42
83	Altered Cardiac Repolarization in Association with Air Pollution and Air Temperature among Myocardial Infarction Survivors. Environmental Health Perspectives, 2010, 118, 1755-1761.	6.0	40
84	Estimating time series of aerosol particle number concentrations in the five HEAPSS cities on the basis of measured air pollution and meteorological variables. Atmospheric Environment, 2005, 39, 2261-2273.	4.1	39
85	Quality control and quality assurance for particle size distribution measurements at an urban monitoring station in Augsburg, Germany. Journal of Environmental Monitoring, 2008, 10, 1017.	2.1	38
86	Long-term trends in PM2.5 mass and particle number concentrations in urban air: The impacts of mitigation measures and extreme events due to changing climates. Environmental Pollution, 2020, 263, 114500.	7.5	38
87	Associations between particulate matter elements and early-life pneumonia in seven birth cohorts: Results from the ESCAPE and TRANSPHORM projects. International Journal of Hygiene and Environmental Health, 2014, 217, 819-829.	4.3	36
88	Estimated Personal Soot Exposure Is Associated With Acute Myocardial Infarction Onset in a Case-Crossover Study. Progress in Cardiovascular Diseases, 2011, 53, 361-368.	3.1	35
89	Selection of key ambient particulate variables for epidemiological studies â€" Applying cluster and heatmap analyses as tools for data reduction. Science of the Total Environment, 2012, 435-436, 541-550.	8.0	35
90	Air Pollution and Liver Enzymes. Epidemiology, 2013, 24, 934-935.	2.7	35

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91	Development of Land Use Regression Models for Elemental, Organic Carbon, PAH, and Hopanes/Steranes in 10 ESCAPE/TRANSPHORM European Study Areas. Environmental Science & Technology, 2014, 48, 14435-14444.	10.0	35
92	Spatial variations and development of land use regression models of oxidative potential in ten European study areas. Atmospheric Environment, 2017, 150, 24-32.	4.1	34
93	Particulate air pollution and nonfatal cardiac events. Part I. Air pollution, personal activities, and onset of myocardial infarction in a case-crossover study. Research Report (health Effects Institute), 2005, , 1-66; discussion 67-82, 141-8.	1.6	34
94	Indoor and outdoor air concentrations of BTEX and NO2: correlation of repeated measurements. Journal of Environmental Monitoring, 2004, 6, 807-812.	2.1	33
95	Lack of spatial variation of endotoxin in ambient particulate matter across a German metropolitan area. Atmospheric Environment, 2005, 39, 6931-6941.	4.1	32
96	Ambient and controlled exposures to particulate air pollution and acute changes in heart rate variability and repolarization. Scientific Reports, 2019, 9, 1946.	3.3	32
97	Acute air pollution effects on heart rate variability are modified by SNPs involved in cardiac rhythm in individuals with diabetes or impaired glucose tolerance. Environmental Research, 2012, 112, 177-185.	7.5	31
98	Personal day-time exposure to ultrafine particles in different microenvironments. International Journal of Hygiene and Environmental Health, 2015, 218, 188-195.	4.3	28
99	Exposure to ultrafine particles and respiratory hospitalisations in five European cities. European Respiratory Journal, 2016, 48, 674-682.	6.7	28
100	Decreasing trends of particle number and black carbon mass concentrations at 16 observational sites in Germany from 2009 to 2018. Atmospheric Chemistry and Physics, 2020, 20, 7049-7068.	4.9	28
101	Spatial and temporal variability of PM10 sources in Augsburg, Germany. Atmospheric Environment, 2013, 71, 131-139.	4.1	27
102	Spatial variations of levoglucosan in four European study areas. Science of the Total Environment, 2015, 505, 1072-1081.	8.0	27
103	Association of novel metrics of particulate matter with vascular markers of inflammation and coagulation in susceptible populations â€“results from a panel study. Environmental Research, 2016, 150, 337-347.	7.5	26
104	The Relationship between Daily Concentration of Fine Particulate Matter in Ambient Air and Exacerbation of Respiratory Diseases in Silesian Agglomeration, Poland. International Journal of Environmental Research and Public Health, 2019, 16, 1131.	2.6	25
105	Particle-associated organic compounds and symptoms in myocardial infarction survivors. Inhalation Toxicology, 2011, 23, 431-447.	1.6	24
106	Aerosol-based modelling of infiltration of ambient PM2.5 and evaluation against population-based measurements in homes in Helsinki, Finland. Journal of Aerosol Science, 2013, 66, 111-122.	3.8	24
107	Personal exposure to ultrafine particles: Two-level statistical modeling of background exposure and time-activity patterns during three seasons. Journal of Exposure Science and Environmental Epidemiology, 2016, 26, 17-25.	3.9	24
108	Impact of personally measured pollutants on cardiac function. International Journal of Hygiene and Environmental Health, 2014, 217, 460-464.	4.3	20

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109	Maternal fine particulate matter exposure, polymorphism in xenobiotic-metabolizing genes and offspring birth weight. Reproductive Toxicology, 2010, 30, 600-612.	2.9	19
110	Individual daytime noise exposure in different microenvironments. Environmental Research, 2015, 140, 479-487.	7.5	19
111	Spatiotemporal Characteristics and Driving Factors of Black Carbon in Augsburg, Germany: Combination of Mobile Monitoring and Street View Images. Environmental Science & Technology, 2021, 55, 160-168.	10.0	19
112	Daily measurement of organic compounds in ambient particulate matter in Augsburg, Germany: new aspects on aerosol sources and aerosol related health effects. Biomarkers, 2009, 14, 39-44.	1.9	18
113	Effects of air pollution on exhaled nitric oxide in children: Results from the GINIplus and LISAplus studies. International Journal of Hygiene and Environmental Health, 2014, 217, 483-491.	4.3	17
114	Comparison of ambient airborne PM2.5, PM2.5 absorbance and nitrogen dioxide ratios measured in 1999 and 2009 in three areas in Europe. Science of the Total Environment, 2014, 487, 290-298.	8.0	16
115	Interlaboratory comparison of PM10 and black smoke measurements in the PEACE study. Atmospheric Environment, 1997, 31, 3341-3349.	4.1	13
116	A measurement based analysis of the spatial distribution, temporal variation and chemical composition of particulate matter in Munich and Augsburg. Meteorologische Zeitschrift, 2011, 20, 47-57.	1.0	13
117	Impact of meteorological conditions on airborne fine particle composition and secondary pollutant characteristics in urban area during winter-time. Meteorologische Zeitschrift, 2016, 25, 267-279.	1.0	13
118	Organic speciation of ambient quasi-ultrafine particulate matter (PM0.36) in Augsburg, Germany: Seasonal variability and source apportionment. Science of the Total Environment, 2018, 615, 828-837.	8.0	13
119	Influence of Local Sources and Meteorological Parameters on the Spatial and Temporal Distribution of Ultrafine Particles in Augsburg, Germany. Frontiers in Environmental Science, 2021, 8, .	3.3	12
120	Mixtures of Berkson and classical covariate measurement error in the linear mixed model: Bias analysis and application to a study on ultrafine particles. Biometrical Journal, 2018, 60, 480-497.	1.0	11
121	A randomization-based causal inference framework for uncovering environmental exposure effects on human gut microbiota. PLoS Computational Biology, 2022, 18, e1010044.	3.2	8
122	Gaseous air pollutants and DNA methylation in a methylome-wide association study of an ethnically and environmentally diverse population of U.S. adults. Environmental Research, 2022, 212, 113360.	7.5	7
123	Personal Measurements of Ultrafine Particles Are Associated with Decreased Heart Rate Variability. Epidemiology, 2009, 20, S19.	2.7	5
124	A further plea for rigorous science and explicit disclosure of potential conflicts of interest. Archives of Toxicology, 2009, 83, 293-295.	4.2	5
125	Semi-continuous sampling of health relevant atmospheric particle subfractions for chemical speciation using a rotating drum impactor in series with sequential filter sampler. Environmental Science and Pollution Research, 2016, 23, 7278-7287.	5.3	4
126	Spatial and temporal variation of sources contributing to quasi-ultrafine particulate matter PM0.36 in Augsburg, Germany. Science of the Total Environment, 2018, 631-632, 191-200.	8.0	4

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127	Influence of New Year's fireworks on air quality â€“ A case study from 2010 to 2021 in Augsburg, Germany. Atmospheric Pollution Research, 2022, 13, 101341.	3.8	4
128	On a relation between particle size distribution and mixing layer height. , 2011, , .		3
129	The Association Between Particulate Air Pollution and Respiratory Mortality in Beijing Before, During, and After the 2008 Olympic and Paralympic Games. Frontiers in Environmental Science, 2021, 9, .	3.3	3
130	SmartAQnet: remote and in-situ sensing of urban air quality. , 2017, , .		3
131	Low emission zones reduced PM10 but not NO2 concentrations in Berlin and Munich, Germany. Journal of Environmental Management, 2022, 302, 114048.	7.8	3
132	Temporal and spatial structure of a volcanic ash cloud: ground-based remote sensing and numerical modeling. , 2010, , .		1
133	Indoorâ€“Outdoor Relationships of Particle Number and Mass in European Cities. Handbook of Environmental Chemistry, 2013, , 321-337.	0.4	1
134	OP VII â€“ 2â€…Does temperature confounding control influence the modifying effect of air temperature in ozone-mortality associations?. , 2018, , .		0
135	The Berlin-Brandenburg Air Study â€“ a natural experiment investigating health effects from changes in airport-related exposures. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
136	P II â€“ 1â€“8â€…Development of land-use regression models for air temperature and relative humidity in augsburg, germany. , 2018, , .		0
137	OP IX â€“ 4â€…Quantification of environmental burden of disease related to nitrogen dioxide exposure in germany. , 2018, , .		0
138	Smart Air Quality Network for spatial high-resolution monitoring in urban area. , 2018, , .		0
139	Assessment of three-dimensional, fine-granular measurement of particulate matter by a smart air quality network in urban area. , 2019, , .		0