Jing Wei

List of Publications by Year in Descending Order

113 papers	2,290 citations	26 h-index	44 g-index
158 ext. papers	3,586 ext. citations	6.7 avg, IF	5.89 L-index

#	Paper	IF	Citations
113	Environmental regulation and synergistic effects of PM2.5 control in China. *Journal of Cleaner Production*, **2022**, 337, 130438	10.3	4
112	Near-real-time estimation of hourly open biomass burning emissions in China using multiple satellite retrievals.. *Science of the Total Environment*, **2022**, 817, 152777	10.2	3
111	The different sensitivities of aerosol optical properties to particle concentration, humidity, and hygroscopicity between the surface level and the upper boundary layer in Guangzhou, China. *Science of the Total Environment*, **2022**, 803, 150010	10.2	1
110	Smaller particular matter, larger risk of female lung cancer incidence? Evidence from 436 Chinese counties.. *BMC Public Health*, **2022**, 22, 344	4.1	0
109	Measuring green development level at a regional scale: framework, model, and application.. *Environmental Monitoring and Assessment*, **2022**, 194, 343	3.1	1
108	Could greenness modify the effects of physical activity and air pollutants on overweight and obesity among children and adolescents?. *Science of the Total Environment*, **2022**, 155117	10.2	0
107	The association between daily-diagnosed COVID-19 morbidity and short-term exposure to PM is larger than associations with PM and PM.. *Environmental Research*, **2022**, 113016	7.9	0
106	Living near greenness is associated with higher bone strength: A large cross-sectional epidemiological study in China.. *Science of the Total Environment*, **2022**, 155393	10.2	0
105	Association between outdoor artificial light at night and sleep duration among older adults in China: A cross-sectional study.. *Environmental Research*, **2022**, 113343	7.9	1
104	Cause-specific cardiovascular disease mortality attributable to ambient temperature: A time-stratified case-crossover study in Jiangsu province, China.. *Ecotoxicology and Environmental Safety*, **2022**, 236, 113498	7	0
103	Increased allostatic load associated with ambient air pollution acting as a stressor: Cross-sectional evidence from the China multi-ethnic cohort study.. *Science of the Total Environment*, **2022**, 155658	10.2	
102	Short-term effects of exposure to ambient PM, PM, and PM on ischemic and hemorrhagic stroke incidence in Shandong Province, China.. *Environmental Research*, **2022**, 212, 113350	7.9	0
101	Trends in secondary inorganic aerosol pollution in China and its responses to emission controls of precursors in wintertime. *Atmospheric Chemistry and Physics*, **2022**, 22, 6291-6308	6.8	1
100	Short-term effects of exposure to ambient PM1 on blood pressure in children and adolescents aged 9 to 18 years in Shandong Province, China. *Atmospheric Environment*, **2022**, 283, 119180	5.3	0
99	Spatial heterogeneity in health risks of illness-related absenteeism associated with PM2.5 exposure for elementary students. *Environmental Research*, **2022**, 212, 113473	7.9	0
98	Identifying Surface Urban Heat Island Drivers and Their Spatial Heterogeneity in China's 281 Cities: An Empirical Study Based on Multiscale Geographically Weighted Regression. *Remote Sensing*, **2021**, 13, 4428	5	5
97	The Occurrence of Heavy Air Pollution during the COVID-19 Outbreak in Beijing, China: Roles of Emission Reduction, Meteorological Conditions, and Regional Transport. *Sustainability*, **2021**, 13, 12312	3.6	2

96	Long-term exposure to ozone and diabetes incidence: A longitudinal cohort study in China. *Science of the Total Environment*, **2021**, 816, 151634	10.2	0
95	Full-coverage mapping and spatiotemporal variations of ground-level ozone (O3) pollution from 2013 to 2020 across China. *Remote Sensing of Environment*, **2021**, 270, 112775	13.2	16
94	Vertical distributions of aerosol microphysical and optical properties based on aircraft measurements made over the Loess Plateau in China. *Atmospheric Environment*, **2021**, 270, 118888	5.3	2
93	Greenness alleviates the effects of ambient particulate matter on the risks of high blood pressure in children and adolescents.. *Science of the Total Environment*, **2021**, 812, 152431	10.2	1
92	Changes in Air Pollution Following the COVID-19 Epidemic in Northern China: The Role of Meteorology. *Frontiers in Environmental Science*, **2021**, 9,	4.8	9
91	VIIRS Environmental Data Record and Deep Blue aerosol products: validation, comparison, and spatiotemporal variations from 2013 to 2018 in China. *Atmospheric Environment*, **2021**, 250, 118265	5.3	3
90	Ambient PM2.5 Estimates and Variations during COVID-19 Pandemic in the Yangtze River Delta Using Machine Learning and Big Data. *Remote Sensing*, **2021**, 13, 1423	5	5
89	Size-specific particulate air pollution and hospitalization for cardiovascular diseases: A case-crossover study in Shenzhen, China. *Atmospheric Environment*, **2021**, 251, 118271	5.3	6
88	Himawari-8-derived diurnal variations in ground-level PM_{2.5} pollution across China using the fast space-time Light Gradient Boosting Machine (LightGBM). *Atmospheric Chemistry and Physics*, **2021**, 21, 7863-7880	6.8	26
87	Climatic modification effects on the association between PM1 and lung cancer incidence in China. *BMC Public Health*, **2021**, 21, 880	4.1	0
86	Association of long-term exposure to ambient air pollutants with blood lipids in Chinese adults: The China Multi-Ethnic Cohort study. *Environmental Research*, **2021**, 197, 111174	7.9	8
85	Ambient particulate matter (PM, PM, PM) and childhood pneumonia: The smaller particle, the greater short-term impact?. *Science of the Total Environment*, **2021**, 772, 145509	10.2	15
84	Investigation of the Uncertainties of Simulated Optical Properties of Brown Carbon at Two Asian Sites Using a Modified Bulk Aerosol Optical Scheme of the Community Atmospheric Model Version 5.3. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2020JD033942	4.4	1
83	Evaluation of life expectancy loss associated with submicron and fine particulate matter (PM and PM) air pollution in Nanjing, China. *Environmental Science and Pollution Research*, **2021**, 1	5.1	5
82	The impact of the atmospheric turbulence-development tendency on new particle formation: a common finding on three continents. *National Science Review*, **2021**, 8, nwaa157	10.8	4
81	Spatiotemporal PM2.5 variations and its response to the industrial structure from 2000 to 2018 in the Beijing-Tianjin-Hebei region. *Journal of Cleaner Production*, **2021**, 279, 123742	10.3	21
80	Intraday effects of ambient PM on emergency department visits in Guangzhou, China: A case-crossover study. *Science of the Total Environment*, **2021**, 750, 142347	10.2	15
79	Reconstructing 1-km-resolution high-quality PM2.5 data records from 2000 to 2018 in China: spatiotemporal variations and policy implications. *Remote Sensing of Environment*, **2021**, 252, 112136	13.2	111

78	Inferring Near-Surface PM2.5 Concentrations from the VIIRS Deep Blue Aerosol Product in China: A Spatiotemporally Weighted Random Forest Model. *Remote Sensing*, **2021**, 13, 505	5	3
77	The ChinaHighPM dataset: generation, validation, and spatiotemporal variations from 2015 to 2019 across China. *Environment International*, **2021**, 146, 106290	12.9	38
76	Do socioeconomic factors modify the effects of PM1 and SO2 on lung cancer incidence in China?. *Science of the Total Environment*, **2021**, 756, 143998	10.2	9
75	Surface Brightening in Eastern and Central China Since the Implementation of the Clean Air Action in 2013: Causes and Implications. *Geophysical Research Letters*, **2021**, 48, e2020GL091105	4.9	6
74	The Association Between Long-term Exposure to Ambient Air Pollution and Bone Strength in China. *Journal of Clinical Endocrinology and Metabolism*, **2021**, 106, e5097-e5108	5.6	1
73	Dietary Pattern and Long-Term Effects of Particulate Matter on Blood Pressure: A Large Cross-Sectional Study in Chinese Adults. *Hypertension*, **2021**, 78, 184-194	8.5	6
72	Retrieving High-Resolution Aerosol Optical Depth from GF-4 PMS Imagery in Eastern China. *Remote Sensing*, **2021**, 13, 3752	5	2
71	Aerosol-induced direct radiative forcing effects on terrestrial ecosystem carbon fluxes over China. *Environmental Research*, **2021**, 200, 111464	7.9	4
70	Effects of using different exposure data to estimate changes in premature mortality attributable to PM and O in China. *Environmental Pollution*, **2021**, 285, 117242	9.3	5
69	Early-life exposure to submicron particulate air pollution in relation to asthma development in Chinese preschool children. *Journal of Allergy and Clinical Immunology*, **2021**, 148, 771-782.e12	11.5	8
68	Urban-rural differences in the association between long-term exposure to ambient air pollution and obesity in China. *Environmental Research*, **2021**, 201, 111597	7.9	5
67	Associations of long-term exposure to ambient air pollution and physical activity with insomnia in Chinese adults. *Science of the Total Environment*, **2021**, 792, 148197	10.2	2
66	Quantization of the coupling mechanism between eco-environmental quality and urbanization from multisource remote sensing data. *Journal of Cleaner Production*, **2021**, 321, 128948	10.3	21
65	MODIS high-resolution MAIAC aerosol product: Global validation and analysis. *Atmospheric Environment*, **2021**, 264, 118684	5.3	11
64	An Improved DDV Algorithm for the Retrieval of Aerosol Optical Depth From NOAA/AVHRR Data **2021**, 49, 1141-1152		2
63	Extending the EOS Long-Term PM2.5 Data Records Since 2013 in China: Application to the VIIRS Deep Blue Aerosol Products. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-12	8.1	2
62	. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-10	8.1	5
61	Ammonia volatilization as the major nitrogen loss pathway in dryland agro-ecosystems. *Environmental Pollution*, **2020**, 265, 114862	9.3	21

60	A novel efficient broadband model to derive daily surface solar Ultraviolet radiation (0.280-0.400μm). *Science of the Total Environment*, **2020**, 735, 139513	10.2	6
59	Global estimates of dry ammonia deposition inferred from space-measurements. *Science of the Total Environment*, **2020**, 730, 139189	10.2	10
58	Spatiotemporal variations and relationships of aerosol-radiation-ecosystem productivity over China during 2001-2014. *Science of the Total Environment*, **2020**, 741, 140324	10.2	9
57	The mechanisms and seasonal differences of the impact of aerosols on daytime surface urban heat island effect. *Atmospheric Chemistry and Physics*, **2020**, 20, 6479-6493	6.8	17
56	Challenges for Global Sustainable Nitrogen Management in Agricultural Systems. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 3354-3361	5.7	22
55	Constructing a gridded direct normal irradiance dataset in China during 1981–2014. *Renewable and Sustainable Energy Reviews*, **2020**, 131, 110004	16.2	11
54	Synergy of Satellite- and Ground-Based Aerosol Optical Depth Measurements Using an Ensemble Kalman Filter Approach. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD031884	4.4	6
53	A comprehensive framework for assessing the impact of potential agricultural pollution on grain security and human health in economically developed areas. *Environmental Pollution*, **2020**, 263, 114653	9.3	19
52	The significant impact of aerosol vertical structure on lower atmosphere stability and its critical role in aerosol–planetary boundary layer (PBL) interactions. *Atmospheric Chemistry and Physics*, **2020**, 20, 3713-3724	6.8	30
51	Mapping Rice Paddy Based on Machine Learning with Sentinel-2 Multi-Temporal Data: Model Comparison and Transferability. *Remote Sensing*, **2020**, 12, 1620	5	13
50	A detailed comparison of MYD11 and MYD21 land surface temperature products in mainland China. *International Journal of Digital Earth*, **2020**, 13, 1391-1407	3.9	15
49	Anthropogenic and meteorological drivers of 1980–2016 trend in aerosol optical and radiative properties over the Yangtze River Basin. *Atmospheric Environment*, **2020**, 223, 117188	5.3	14
48	Refining aerosol optical depth retrievals over land by constructing the relationship of spectral surface reflectances through deep learning: Application to Himawari-8. *Remote Sensing of Environment*, **2020**, 251, 112093	13.2	10
47	Fall of oxidized while rise of reduced reactive nitrogen deposition in China. *Journal of Cleaner Production*, **2020**, 272, 122875	10.3	4
46	Cloud detection for Landsat imagery by combining the random forest and superpixels extracted via energy-driven sampling segmentation approaches. *Remote Sensing of Environment*, **2020**, 248, 112005	13.2	25
45	Reviewing global estimates of surface reactive nitrogen concentration and deposition using satellite retrievals. *Atmospheric Chemistry and Physics*, **2020**, 20, 8641-8658	6.8	8
44	MODIS Collection 6.1 3km resolution aerosol optical depth product: global evaluation and uncertainty analysis. *Atmospheric Environment*, **2020**, 240, 117768	5.3	22
43	The Urban–Rural Heterogeneity of Air Pollution in 35 Metropolitan Regions across China. *Remote Sensing*, **2020**, 12, 2320	5	11

42	Satellite data cloud detection using deep learning supported by hyperspectral data. *International Journal of Remote Sensing*, **2020**, 41, 1349-1371	3.1	20
41	Improved 1 km resolution PM_{2.5} estimates across China using enhanced space□time extremely randomized trees. *Atmospheric Chemistry and Physics*, **2020**, 20, 3273-3289	6.8	119
40	Evaluation and uncertainty estimate of next-generation geostationary meteorological Himawari-8/AHI aerosol products. *Science of the Total Environment*, **2019**, 692, 879-891	10.2	31
39	Evaluation of MAIAC aerosol retrievals over China. *Atmospheric Environment*, **2019**, 202, 8-16	5.3	40
38	Improved merge schemes for MODIS Collection 6.1 Dark Target and Deep Blue combined aerosol products. *Atmospheric Environment*, **2019**, 202, 315-327	5.3	26
37	Intercomparison in spatial distributions and temporal trends derived from multi-source satellite aerosol products. *Atmospheric Chemistry and Physics*, **2019**, 19, 7183-7207	6.8	59
36	. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 4748-4757	8.1	31
35	Performance of MODIS Collection 6.1 Level 3 aerosol products in spatial-temporal variations over land. *Atmospheric Environment*, **2019**, 206, 30-44	5.3	46
34	Improved Aerosol Retrievals Over Complex Regions Using NPP Visible Infrared Imaging Radiometer Suite Observations. *Earth and Space Science*, **2019**, 6, 629-645	3.1	18
33	. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 9534-9543	8.1	12
32	Estimating 1-km-resolution PM2.5 concentrations across China using the space-time random forest approach. *Remote Sensing of Environment*, **2019**, 231, 111221	13.2	197
31	Dynamic assessment of PM exposure and health risk using remote sensing and geo-spatial big data. *Environmental Pollution*, **2019**, 253, 288-296	9.3	61
30	Satellite-Derived 1-km-Resolution PM Concentrations from 2014 to 2018 across China. *Environmental Science & Technology*, **2019**, 53, 13265-13274	10.3	99
29	Estimating global surface ammonia concentrations inferred from satellite retrievals. *Atmospheric Chemistry and Physics*, **2019**, 19, 12051-12066	6.8	15
28	Improved 1-km-resolution PM_{2.5} estimates across China using the space-time extremely randomized trees **2019**,		1
27	MODIS Collection 6.1 aerosol optical depth products over land and ocean: validation and comparison. *Atmospheric Environment*, **2019**, 201, 428-440	5.3	128
26	Validation of Himawari-8 aerosol optical depth retrievals over China. *Atmospheric Environment*, **2019**, 199, 32-44	5.3	50
25	A simplified aerosol retrieval algorithm for Himawari-8 Advanced Himawari Imager over Beijing. *Atmospheric Environment*, **2019**, 199, 127-135	5.3	17

24	Prediction of diffuse solar radiation based on multiple variables in China. *Renewable and Sustainable Energy Reviews*, **2019**, 103, 151-216	16.2	33
23	A Priori Surface Reflectance-Based Cloud Shadow Detection Algorithm for Landsat 8 OLI. *IEEE Geoscience and Remote Sensing Letters*, **2018**, 15, 1610-1614	4.1	1
22	Global Validation of MODIS C6 and C6.1 Merged Aerosol Products over Diverse Vegetated Surfaces. *Remote Sensing*, **2018**, 10, 475	5	39
21	Performance of the NPP-VIIRS and aqua-MODIS Aerosol Optical Depth Products over the Yangtze River Basin. *Remote Sensing*, **2018**, 10, 117	5	46
20	Verification, improvement and application of aerosol optical depths in China Part 1: Inter-comparison of NPP-VIIRS and Aqua-MODIS. *Atmospheric Environment*, **2018**, 175, 221-233	5.3	56
19	Validation and Comparison of MODIS C6.1 and C6 Aerosol Products over Beijing, China. *Remote Sensing*, **2018**, 10, 2021	5	30
18	. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2018**, 11, 3628-3645	4.7	6
17	An Improved High-Spatial-Resolution Aerosol Retrieval Algorithm for MODIS Images Over Land. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 12,291-12,307	4.4	31
16	A cloud detection algorithm-generating method for remote sensing data at visible to short-wave infrared wavelengths. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2017**, 124, 70-88	11.8	55
15	Simple mineral mapping algorithm based on multitype spectral diagnostic absorption features: a case study at Cuprite, Nevada. *Journal of Applied Remote Sensing*, **2017**, 11, 026015	1.4	2
14	Aerosol optical depth retrieval from visibility in China during 1973–2014. *Atmospheric Environment*, **2017**, 171, 38-48	5.3	25
13	A simplified Suomi NPP VIIRS dust detection algorithm. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2017**, 164, 314-323	2	12
12	. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2017**, 10, 835-844	4.7	44
11	A Simple and Universal Aerosol Retrieval Algorithm for Landsat Series Images Over Complex Surfaces. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 13,338-13,355	4.4	34
10	Validation and Accuracy Analysis of Global MODIS Aerosol Products over Land. *Atmosphere*, **2017**, 8, 155	2.7	17
9	Analysis of the Temporal and Spatial Variation of Aerosols in the Beijing-Tianjin-Hebei Region with a 1 km AOD Product. *Aerosol and Air Quality Research*, **2017**, 17, 923-935	4.6	9
8	A Universal Dynamic Threshold Cloud Detection Algorithm (UDTCDA) supported by a prior surface reflectance database. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 7172-7196	4.4	54
7	Impact of Land-Use and Land-Cover Change on urban air quality in representative cities of China. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2016**, 142, 43-54	2	68

6	Aerosol Optical Depth Retrieval over Bright Areas Using Landsat 8 OLI Images. *Remote Sensing*, **2016**, 8, 23	5	70
5	Dynamic threshold cloud detection algorithms for MODIS and Landsat 8 data **2016**,		4
4	A high-resolution global dataset of aerosol optical depth over land from MODIS data **2016**,		2
3	Response analysis of particulate air pollution to Land-use and land-cover change. *Acta Ecologica Sinica*, **2015**, 35,	0.7	2
2	Spatial representativeness of PM2.5 monitoring stations and its implication for health assessment. *Air Quality, Atmosphere and Health*,1	5.6	0
1	Surface urban heat islands in 932 urban region agglomerations in China during the morning and before midnight: spatial-temporal changes, drivers, and simulation. *Geocarto International*,1-22	2.7	0