

Jing Wei

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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	Estimating 1-km-resolution PM _{2.5} concentrations across China using the space-time random forest approach. <i>Remote Sensing of Environment</i> , 2019 , 231, 111221	13.2	197
112	MODIS Collection 6.1 aerosol optical depth products over land and ocean: validation and comparison. <i>Atmospheric Environment</i> , 2019 , 201, 428-440	5.3	128
111	Improved 1 km resolution PM _{2.5} estimates across China using enhanced space-time extremely randomized trees. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 3273-3289	6.8	119
110	Reconstructing 1-km-resolution high-quality PM _{2.5} data records from 2000 to 2018 in China: spatiotemporal variations and policy implications. <i>Remote Sensing of Environment</i> , 2021 , 252, 112136	13.2	111
109	Satellite-Derived 1-km-Resolution PM Concentrations from 2014 to 2018 across China. <i>Environmental Science & Technology</i> , 2019 , 53, 13265-13274	10.3	99
108	Aerosol Optical Depth Retrieval over Bright Areas Using Landsat 8 OLI Images. <i>Remote Sensing</i> , 2016 , 8, 23	5	70
107	Impact of Land-Use and Land-Cover Change on urban air quality in representative cities of China. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016 , 142, 43-54	2	68
106	Dynamic assessment of PM exposure and health risk using remote sensing and geo-spatial big data. <i>Environmental Pollution</i> , 2019 , 253, 288-296	9.3	61
105	Intercomparison in spatial distributions and temporal trends derived from multi-source satellite aerosol products. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 7183-7207	6.8	59
104	Verification, improvement and application of aerosol optical depths in China Part 1: Inter-comparison of NPP-VIIRS and Aqua-MODIS. <i>Atmospheric Environment</i> , 2018 , 175, 221-233	5.3	56
103	A cloud detection algorithm-generating method for remote sensing data at visible to short-wave infrared wavelengths. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017 , 124, 70-88	11.8	55
102	A Universal Dynamic Threshold Cloud Detection Algorithm (UDTCDA) supported by a prior surface reflectance database. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 7172-7196	4.4	54
101	Validation of Himawari-8 aerosol optical depth retrievals over China. <i>Atmospheric Environment</i> , 2019 , 199, 32-44	5.3	50
100	Performance of MODIS Collection 6.1 Level 3 aerosol products in spatial-temporal variations over land. <i>Atmospheric Environment</i> , 2019 , 206, 30-44	5.3	46
99	Performance of the NPP-VIIRS and aqua-MODIS Aerosol Optical Depth Products over the Yangtze River Basin. <i>Remote Sensing</i> , 2018 , 10, 117	5	46
98	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017 , 10, 835-844	4.7	44
97	Evaluation of MAIAC aerosol retrievals over China. <i>Atmospheric Environment</i> , 2019 , 202, 8-16	5.3	40

96	Global Validation of MODIS C6 and C6.1 Merged Aerosol Products over Diverse Vegetated Surfaces. <i>Remote Sensing</i> , 2018 , 10, 475	5	39
95	The ChinaHighPM dataset: generation, validation, and spatiotemporal variations from 2015 to 2019 across China. <i>Environment International</i> , 2021 , 146, 106290	12.9	38
94	A Simple and Universal Aerosol Retrieval Algorithm for Landsat Series Images Over Complex Surfaces. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 13,338-13,355	4.4	34
93	Prediction of diffuse solar radiation based on multiple variables in China. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 103, 151-216	16.2	33
92	Evaluation and uncertainty estimate of next-generation geostationary meteorological Himawari-8/AHI aerosol products. <i>Science of the Total Environment</i> , 2019 , 692, 879-891	10.2	31
91	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 4748-4757	8.1	31
90	An Improved High-Spatial-Resolution Aerosol Retrieval Algorithm for MODIS Images Over Land. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 12,291-12,307	4.4	31
89	The significant impact of aerosol vertical structure on lower atmosphere stability and its critical role in aerosol-planetary boundary layer (PBL) interactions. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 3713-3724	6.8	30
88	Validation and Comparison of MODIS C6.1 and C6 Aerosol Products over Beijing, China. <i>Remote Sensing</i> , 2018 , 10, 2021	5	30
87	Improved merge schemes for MODIS Collection 6.1 Dark Target and Deep Blue combined aerosol products. <i>Atmospheric Environment</i> , 2019 , 202, 315-327	5.3	26
86	Himawari-8-derived diurnal variations in ground-level PM _{2.5} pollution across China using the fast space-time Light Gradient Boosting Machine (LightGBM). <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 7863-7880	6.8	26
85	Aerosol optical depth retrieval from visibility in China during 1973-2014. <i>Atmospheric Environment</i> , 2017 , 171, 38-48	5.3	25
84	Cloud detection for Landsat imagery by combining the random forest and superpixels extracted via energy-driven sampling segmentation approaches. <i>Remote Sensing of Environment</i> , 2020 , 248, 112005	13.2	25
83	Challenges for Global Sustainable Nitrogen Management in Agricultural Systems. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 3354-3361	5.7	22
82	MODIS Collection 6.1 3km resolution aerosol optical depth product: global evaluation and uncertainty analysis. <i>Atmospheric Environment</i> , 2020 , 240, 117768	5.3	22
81	Ammonia volatilization as the major nitrogen loss pathway in dryland agro-ecosystems. <i>Environmental Pollution</i> , 2020 , 265, 114862	9.3	21
80	Spatiotemporal PM _{2.5} variations and its response to the industrial structure from 2000 to 2018 in the Beijing-Tianjin-Hebei region. <i>Journal of Cleaner Production</i> , 2021 , 279, 123742	10.3	21
79	Quantization of the coupling mechanism between eco-environmental quality and urbanization from multisource remote sensing data. <i>Journal of Cleaner Production</i> , 2021 , 321, 128948	10.3	21

78	Satellite data cloud detection using deep learning supported by hyperspectral data. <i>International Journal of Remote Sensing</i> , 2020 , 41, 1349-1371	3.1	20
77	A comprehensive framework for assessing the impact of potential agricultural pollution on grain security and human health in economically developed areas. <i>Environmental Pollution</i> , 2020 , 263, 114653	9.3	19
76	Improved Aerosol Retrievals Over Complex Regions Using NPP Visible Infrared Imaging Radiometer Suite Observations. <i>Earth and Space Science</i> , 2019 , 6, 629-645	3.1	18
75	The mechanisms and seasonal differences of the impact of aerosols on daytime surface urban heat island effect. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 6479-6493	6.8	17
74	Validation and Accuracy Analysis of Global MODIS Aerosol Products over Land. <i>Atmosphere</i> , 2017 , 8, 155	2.7	17
73	A simplified aerosol retrieval algorithm for Himawari-8 Advanced Himawari Imager over Beijing. <i>Atmospheric Environment</i> , 2019 , 199, 127-135	5.3	17
72	Full-coverage mapping and spatiotemporal variations of ground-level ozone (O ₃) pollution from 2013 to 2020 across China. <i>Remote Sensing of Environment</i> , 2021 , 270, 112775	13.2	16
71	A detailed comparison of MYD11 and MYD21 land surface temperature products in mainland China. <i>International Journal of Digital Earth</i> , 2020 , 13, 1391-1407	3.9	15
70	Ambient particulate matter (PM ₁₀ , PM _{2.5} , PM ₁) and childhood pneumonia: The smaller particle, the greater short-term impact?. <i>Science of the Total Environment</i> , 2021 , 772, 145509	10.2	15
69	Estimating global surface ammonia concentrations inferred from satellite retrievals. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12051-12066	6.8	15
68	Intraday effects of ambient PM on emergency department visits in Guangzhou, China: A case-crossover study. <i>Science of the Total Environment</i> , 2021 , 750, 142347	10.2	15
67	Anthropogenic and meteorological drivers of 1980-2016 trend in aerosol optical and radiative properties over the Yangtze River Basin. <i>Atmospheric Environment</i> , 2020 , 223, 117188	5.3	14
66	Mapping Rice Paddy Based on Machine Learning with Sentinel-2 Multi-Temporal Data: Model Comparison and Transferability. <i>Remote Sensing</i> , 2020 , 12, 1620	5	13
65	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 9534-9543	8.1	12
64	A simplified Suomi NPP VIIRS dust detection algorithm. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017 , 164, 314-323	2	12
63	Constructing a gridded direct normal irradiance dataset in China during 1981-2014. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 131, 110004	16.2	11
62	The Urban-Rural Heterogeneity of Air Pollution in 35 Metropolitan Regions across China. <i>Remote Sensing</i> , 2020 , 12, 2320	5	11
61	MODIS high-resolution MAIAC aerosol product: Global validation and analysis. <i>Atmospheric Environment</i> , 2021 , 264, 118684	5.3	11

60	Global estimates of dry ammonia deposition inferred from space-measurements. <i>Science of the Total Environment</i> , 2020 , 730, 139189	10.2	10
59	Refining aerosol optical depth retrievals over land by constructing the relationship of spectral surface reflectances through deep learning: Application to Himawari-8. <i>Remote Sensing of Environment</i> , 2020 , 251, 112093	13.2	10
58	Spatiotemporal variations and relationships of aerosol-radiation-ecosystem productivity over China during 2001-2014. <i>Science of the Total Environment</i> , 2020 , 741, 140324	10.2	9
57	Analysis of the Temporal and Spatial Variation of Aerosols in the Beijing-Tianjin-Hebei Region with a 1 km AOD Product. <i>Aerosol and Air Quality Research</i> , 2017 , 17, 923-935	4.6	9
56	Changes in Air Pollution Following the COVID-19 Epidemic in Northern China: The Role of Meteorology. <i>Frontiers in Environmental Science</i> , 2021 , 9,	4.8	9
55	Do socioeconomic factors modify the effects of PM1 and SO2 on lung cancer incidence in China?. <i>Science of the Total Environment</i> , 2021 , 756, 143998	10.2	9
54	Reviewing global estimates of surface reactive nitrogen concentration and deposition using satellite retrievals. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 8641-8658	6.8	8
53	Association of long-term exposure to ambient air pollutants with blood lipids in Chinese adults: The China Multi-Ethnic Cohort study. <i>Environmental Research</i> , 2021 , 197, 111174	7.9	8
52	Early-life exposure to submicron particulate air pollution in relation to asthma development in Chinese preschool children. <i>Journal of Allergy and Clinical Immunology</i> , 2021 , 148, 771-782.e12	11.5	8
51	A novel efficient broadband model to derive daily surface solar Ultraviolet radiation (0.280-0.400 μ m). <i>Science of the Total Environment</i> , 2020 , 735, 139513	10.2	6
50	Synergy of Satellite- and Ground-Based Aerosol Optical Depth Measurements Using an Ensemble Kalman Filter Approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031884	4.4	6
49	Size-specific particulate air pollution and hospitalization for cardiovascular diseases: A case-crossover study in Shenzhen, China. <i>Atmospheric Environment</i> , 2021 , 251, 118271	5.3	6
48	Surface Brightening in Eastern and Central China Since the Implementation of the Clean Air Action in 2013: Causes and Implications. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091105	4.9	6
47	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018 , 11, 3628-3645	4.7	6
46	Dietary Pattern and Long-Term Effects of Particulate Matter on Blood Pressure: A Large Cross-Sectional Study in Chinese Adults. <i>Hypertension</i> , 2021 , 78, 184-194	8.5	6
45	Identifying Surface Urban Heat Island Drivers and Their Spatial Heterogeneity in China's 281 Cities: An Empirical Study Based on Multiscale Geographically Weighted Regression. <i>Remote Sensing</i> , 2021 , 13, 4428	5	5
44	Ambient PM2.5 Estimates and Variations during COVID-19 Pandemic in the Yangtze River Delta Using Machine Learning and Big Data. <i>Remote Sensing</i> , 2021 , 13, 1423	5	5
43	Evaluation of life expectancy loss associated with submicron and fine particulate matter (PM and PM) air pollution in Nanjing, China. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	5

42	Effects of using different exposure data to estimate changes in premature mortality attributable to PM and O in China. <i>Environmental Pollution</i> , 2021 , 285, 117242	9.3	5
41	Urban-rural differences in the association between long-term exposure to ambient air pollution and obesity in China. <i>Environmental Research</i> , 2021 , 201, 111597	7.9	5
40	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-10	8.1	5
39	Environmental regulation and synergistic effects of PM2.5 control in China. <i>Journal of Cleaner Production</i> , 2022 , 337, 130438	10.3	4
38	Fall of oxidized while rise of reduced reactive nitrogen deposition in China. <i>Journal of Cleaner Production</i> , 2020 , 272, 122875	10.3	4
37	Dynamic threshold cloud detection algorithms for MODIS and Landsat 8 data 2016 ,		4
36	The impact of the atmospheric turbulence-development tendency on new particle formation: a common finding on three continents. <i>National Science Review</i> , 2021 , 8, nwa157	10.8	4
35	Aerosol-induced direct radiative forcing effects on terrestrial ecosystem carbon fluxes over China. <i>Environmental Research</i> , 2021 , 200, 111464	7.9	4
34	Near-real-time estimation of hourly open biomass burning emissions in China using multiple satellite retrievals.. <i>Science of the Total Environment</i> , 2022 , 817, 152777	10.2	3
33	VIIRS Environmental Data Record and Deep Blue aerosol products: validation, comparison, and spatiotemporal variations from 2013 to 2018 in China. <i>Atmospheric Environment</i> , 2021 , 250, 118265	5.3	3
32	Inferring Near-Surface PM2.5 Concentrations from the VIIRS Deep Blue Aerosol Product in China: A Spatiotemporally Weighted Random Forest Model. <i>Remote Sensing</i> , 2021 , 13, 505	5	3
31	Simple mineral mapping algorithm based on multitype spectral diagnostic absorption features: a case study at Cuprite, Nevada. <i>Journal of Applied Remote Sensing</i> , 2017 , 11, 026015	1.4	2
30	The Occurrence of Heavy Air Pollution during the COVID-19 Outbreak in Beijing, China: Roles of Emission Reduction, Meteorological Conditions, and Regional Transport. <i>Sustainability</i> , 2021 , 13, 12312	3.6	2
29	Vertical distributions of aerosol microphysical and optical properties based on aircraft measurements made over the Loess Plateau in China. <i>Atmospheric Environment</i> , 2021 , 270, 118888	5.3	2
28	Response analysis of particulate air pollution to Land-use and land-cover change. <i>Acta Ecologica Sinica</i> , 2015 , 35,	0.7	2
27	A high-resolution global dataset of aerosol optical depth over land from MODIS data 2016 ,		2
26	Retrieving High-Resolution Aerosol Optical Depth from GF-4 PMS Imagery in Eastern China. <i>Remote Sensing</i> , 2021 , 13, 3752	5	2
25	Associations of long-term exposure to ambient air pollution and physical activity with insomnia in Chinese adults. <i>Science of the Total Environment</i> , 2021 , 792, 148197	10.2	2

24	An Improved DDV Algorithm for the Retrieval of Aerosol Optical Depth From NOAA/AVHRR Data 2021 , 49, 1141-1152		2
23	Extending the EOS Long-Term PM _{2.5} Data Records Since 2013 in China: Application to the VIIRS Deep Blue Aerosol Products. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-12	8.1	2
22	A Priori Surface Reflectance-Based Cloud Shadow Detection Algorithm for Landsat 8 OLI. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018 , 15, 1610-1614	4.1	1
21	Greenness alleviates the effects of ambient particulate matter on the risks of high blood pressure in children and adolescents.. <i>Science of the Total Environment</i> , 2021 , 812, 152431	10.2	1
20	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. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033942	4.4	1
19	Improved 1-km-resolution PM _{2.5} estimates across China using the space-time extremely randomized trees 2019 ,		1
18	The Association Between Long-term Exposure to Ambient Air Pollution and Bone Strength in China. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021 , 106, e5097-e5108	5.6	1
17	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. <i>Science of the Total Environment</i> , 2022 , 803, 150010	10.2	1
16	Measuring green development level at a regional scale: framework, model, and application.. <i>Environmental Monitoring and Assessment</i> , 2022 , 194, 343	3.1	1
15	Association between outdoor artificial light at night and sleep duration among older adults in China: A cross-sectional study.. <i>Environmental Research</i> , 2022 , 113343	7.9	1
14	Trends in secondary inorganic aerosol pollution in China and its responses to emission controls of precursors in wintertime. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 6291-6308	6.8	1
13	Long-term exposure to ozone and diabetes incidence: A longitudinal cohort study in China. <i>Science of the Total Environment</i> , 2021 , 816, 151634	10.2	0
12	Climatic modification effects on the association between PM ₁ and lung cancer incidence in China. <i>BMC Public Health</i> , 2021 , 21, 880	4.1	0
11	Smaller particular matter, larger risk of female lung cancer incidence? Evidence from 436 Chinese counties.. <i>BMC Public Health</i> , 2022 , 22, 344	4.1	0
10	Could greenness modify the effects of physical activity and air pollutants on overweight and obesity among children and adolescents?. <i>Science of the Total Environment</i> , 2022 , 155117	10.2	0
9	The association between daily-diagnosed COVID-19 morbidity and short-term exposure to PM is larger than associations with PM and PM ₁₀ .. <i>Environmental Research</i> , 2022 , 113016	7.9	0
8	Living near greenness is associated with higher bone strength: A large cross-sectional epidemiological study in China.. <i>Science of the Total Environment</i> , 2022 , 155393	10.2	0
7	Cause-specific cardiovascular disease mortality attributable to ambient temperature: A time-stratified case-crossover study in Jiangsu province, China.. <i>Ecotoxicology and Environmental Safety</i> , 2022 , 236, 113498	7	0

6	Spatial representativeness of PM2.5 monitoring stations and its implication for health assessment. <i>Air Quality, Atmosphere and Health</i> ,1	5.6	o
5	Short-term effects of exposure to ambient PM ₁₀ , PM _{2.5} , and PM on ischemic and hemorrhagic stroke incidence in Shandong Province, China.. <i>Environmental Research</i> , 2022 , 212, 113350	7.9	o
4	Short-term effects of exposure to ambient PM ₁₀ on blood pressure in children and adolescents aged 9 to 18 years in Shandong Province, China. <i>Atmospheric Environment</i> , 2022 , 283, 119180	5.3	o
3	Spatial heterogeneity in health risks of illness-related absenteeism associated with PM _{2.5} exposure for elementary students. <i>Environmental Research</i> , 2022 , 212, 113473	7.9	o
2	Surface urban heat islands in 932 urban region agglomerations in China during the morning and before midnight: spatial-temporal changes, drivers, and simulation. <i>Geocarto International</i> ,1-22	2.7	o
1	Increased allostatic load associated with ambient air pollution acting as a stressor: Cross-sectional evidence from the China multi-ethnic cohort study.. <i>Science of the Total Environment</i> , 2022 , 155658	10.2	