Bin Chen

List of Publications by Year
in descending order

63 papers	8,862 citations	159585 30 h-index	128289 60 g-index
67 all docs	67 docs citations	67 times ranked	13378 citing authors

#	Article	IF	Citations
1	Substantial undocumented infection facilitates the rapid dissemination of novel coronavirus (SARS-CoV-2). Science, 2020, 368, 489-493.	12.6	2,940
2	An investigation of transmission control measures during the first 50 days of the COVID-19 epidemic in China. Science, 2020, 368, 638-642.	12.6	1,554
3	Stable classification with limited sample: transferring a 30-m resolution sample set collected in 2015 to mapping 10-m resolution global land cover in 2017. Science Bulletin, 2019, 64, 370-373.	9.0	761
4	Annual maps of global artificial impervious area (GAIA) between 1985 and 2018. Remote Sensing of Environment, 2020, 236, 111510.	11.0	535
5	Influence of meteorological conditions on PM2.5 concentrations across China: A review of methodology and mechanism. Environment International, 2020, 139, 105558.	10.0	281
6	Mapping essential urban land use categories in China (EULUC-China): preliminary results for 2018. Science Bulletin, 2020, 65, 182-187.	9.0	247
7	Comparison of Spatiotemporal Fusion Models: A Review. Remote Sensing, 2015, 7, 1798-1835.	4.0	153
8	Multi-source remotely sensed data fusion for improving land cover classification. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 124, 27-39.	11.1	133
9	Dynamic assessments of population exposure to urban greenspace using multi-source big data. Science of the Total Environment, 2018, 634, 1315-1325.	8.0	122
10	Dynamic assessment of PM2.5 exposure and health risk using remote sensing and geo-spatial big data. Environmental Pollution, 2019, 253, 288-296.	7.5	120
11	How does urban expansion impact peopleâ€™s exposure to green environments? A comparative study of 290 Chinese cities. Journal of Cleaner Production, 2020, 246, 119018.	9.3	109
12	Observed inequality in urban greenspace exposure in China. Environment International, 2021, 156, 106778.	10.0	109
13	Evaluating the â€œ2+26â€•regional strategy for air quality improvement during two air pollution alerts in Beijing: variations in PM_{2.5} concentrations, source apportionment, and the relative contribution of local emission and regional transport. Atmospheric Chemistry and Physics, 2019, 19, 6879-6891.	4.9	100
14	Earth transformed: detailed mapping of global human modification from 1990 to 2017. Earth System Science Data, 2020, 12, 1953-1972.	9.9	96
15	Dynamic monitoring of the Poyang Lake wetland by integrating Landsat and MODIS observations. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 139, 75-87.	11.1	95
16	Spatially and Temporally Weighted Regression: A Novel Method to Produce Continuous Cloud-Free Landsat Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 27-37.	6.3	92
17	Monitoring trends of urban development and environmental impact of Beijing, 1999â€“2006. Science of the Total Environment, 2011, 409, 3295-3308.	8.0	91
18	The control of anthropogenic emissions contributed to 80â€‰% of the decrease in PM_{2.5} concentrations in Beijing from 2013 to 2017. Atmospheric Chemistry and Physics, 2019, 19, 13519-13533.	4.9	87

#	Article	IF	Citations
19	Dynamic monitoring of wetland cover changes using time-series remote sensing imagery. Ecological Informatics, 2014, 24, 17-26.	5.2	83
20	Real-Time Estimation of Population Exposure to PM2.5 Using Mobile- and Station-Based Big Data. International Journal of Environmental Research and Public Health, 2018, 15, 573.	2.6	67
21	An enhanced bloom index for quantifying floral phenology using multi-scale remote sensing observations. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 156, 108-120.	11.1	66
22	Quantitative estimation of 21st-century urban greenspace changes in Chinese populous cities. Science of the Total Environment, 2017, 609, 956-965.	8.0	64
23	Estimation of hourly full-coverage PM2.5 concentrations at 1-km resolution in China using a two-stage random forest model. Atmospheric Research, 2021, 248, 105146.	4.1	64
24	How does urban expansion interact with cropland loss? A comparison of 14 Chinese cities from 1980 to 2015. Landscape Ecology, 2021, 36, 243-263.	4.2	62
25	California Almond Yield Prediction at the Orchard Level With a Machine Learning Approach. Frontiers in Plant Science, 2019, 10, 809.	3.6	50
26	Mapping essential urban land use categories with open big data: Results for five metropolitan areas in the United States of America. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 178, 203-218.	11.1	42
27	How do people in different places experience different levels of air pollution? Using worldwide Chinese as a lens. Environmental Pollution, 2018, 238, 874-883.	7.5	39
28	Mapping essential urban land use categories (EULUC) using geospatial big data: Progress, challenges, and opportunities. Big Earth Data, 2021, 5, 410-441.	4.4	35
29	Wildfire response to changing daily temperature extremes in Californiaâ€™s Sierra Nevada. Science Advances, 2021, 7, eabe6417.	10.3	34
30	Global COVID-19 pandemic demands joint interventions for the suppression of future waves. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26151-26157.	7.1	33
31	A hierarchical spatiotemporal adaptive fusion model using one image pair. International Journal of Digital Earth, 2017, 10, 639-655.	3.9	32
32	Forest Types Classification Based on Multi-Source Data Fusion. Remote Sensing, 2017, 9, 1153.	4.0	31
33	Himawari-8/AHI and MODIS Aerosol Optical Depths in China: Evaluation and Comparison. Remote Sensing, 2019, 11, 1011.	4.0	31
34	Beyond green environments: Multi-scale difference in human exposure to greenspace in China. Environment International, 2022, 166, 107348.	10.0	29
35	Automatic mapping of planting year for tree crops with Landsat satellite time series stacks. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 151, 176-188.	11.1	28
36	Surface water connectivity of seasonal isolated lakes in a dynamic lake-floodplain system. Journal of Hydrology, 2019, 579, 124154.	5.4	27

#	Article	IF	Citations
37	Regional Mapping of Essential Urban Land Use Categories in China: A Segmentation-Based Approach. Remote Sensing, 2020, 12, 1058.	4.0	27
38	Modeling the aerosol chemical composition of the tropopause over the Tibetan Plateau during the Asian summer monsoon. Atmospheric Chemistry and Physics, 2019, 19, 11587-11612.	4.9	24
39	Annual dynamic dataset of global cropping intensity from 2001 to 2019. Scientific Data, 2021, 8, 283.	5.3	24
40	A global map of planting years of plantations. Scientific Data, 2022, 9, 141.	5.3	24
41	Advancing Agricultural Production With Machine Learning Analytics: Yield Determinants for Californiaâ€™s Almond Orchards. Frontiers in Plant Science, 2020, 11, 290.	3.6	21
42	Climate, Fuel, and Land Use Shaped the Spatial Pattern of Wildfire in Californiaâ€™s Sierra Nevada. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005786.	3.0	21
43	Deep Learning for Feature-Level Data Fusion: Higher Resolution Reconstruction of Historical Landsat Archive. Remote Sensing, 2021, 13, 167.	4.0	20
44	Sampling Strategy for Detailed Urban Land Use Classification: A Systematic Analysis in Shenzhen. Remote Sensing, 2020, 12, 1497.	4.0	19
45	Mapping Essential Urban Land Use Categories in Beijing with a Fast Area of Interest (AOI)-Based Method. Remote Sensing, 2021, 13, 477.	4.0	17
46	Fine Land Cover Classification Using Daily Synthetic Landsat-Like Images at 15-m Resolution. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2359-2363.	3.1	15
47	Penalized Linear Discriminant Analysis of Hyperspectral Imagery for Noise Removal. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 359-363.	3.1	15
48	Monitoring tropical forest degradation and restoration with satellite remote sensing: A test using Sabah Biodiversity Experiment. Advances in Ecological Research, 2020, 62, 117-146.	2.7	15
49	Wetland mapping by fusing fine spatial and hyperspectral resolution images. Ecological Modelling, 2017, 353, 95-106.	2.5	13
50	Climate-Conscious Urban Growth Mitigates Urban Warming: Evidence from Shenzhen, China. Environmental Science & Technology, 2019, 53, 11960-11968.	10.0	13
51	Spatial patterns and drivers for wildfire ignitions in California. Environmental Research Letters, 2022, 17, 055004.	5.2	13
52	A novel method to extract urban human settlements by integrating remote sensing and mobile phone locations. Science of Remote Sensing, 2020, 1, 100003.	4.8	12
53	An interpretable deep forest model for estimating hourly PM10 concentration in China using Himawari-8 data. Atmospheric Environment, 2022, 268, 118827.	4.1	12
54	A Novel Method for Measuring Landscape Heterogeneity Changes. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 567-571.	3.1	10

#	Article	IF	Citations
55	Uncovering the Nature of Urban Land Use Composition Using Multi-Source Open Big Data with Ensemble Learning. Remote Sensing, 2021, 13, 4241.	4.0	8
56	Using Satellite Data for the Characterization of Local Animal Reservoir Populations of Hantaan Virus on the Weihe Plain, China. Remote Sensing, 2017, 9, 1076.	4.0	7
57	Addendum: Using Satellite Data for the Characterization of Local Animal Reservoir Populations of Hantaan Virus on the Weihe Plain, China. Remote Sens. 2017, 9, 1076. Remote Sensing, 2018, 10, 20.	4.0	6
58	Where Does Nighttime Light Come From? Insights from Source Detection and Error Attribution. Remote Sensing, 2020, 12, 1922.	4.0	5
59	Management of and Revitalization Strategy for Megacities Under Major Public Health Emergencies: A Case Study of Wuhan. Frontiers in Public Health, 2021, 9, 797775.	2.7	3
60	Constucting a unified framework for multi-source remotely sensed data fusion. , 2016, , .		2
61	Reduction of Human Mobility Matters during Early COVID-19 Outbreaks: Evidence from India, Japan and China. International Journal of Environmental Research and Public Health, 2021, 18, 2826.	2.6	2
62	GLOBALLY INCREASED CROP GROWTH AND CROPPING INTENSITY FROM THE LONG-TERM SATELLITE-BASED OBSERVATIONS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-3, 45-52.	0.0	2
63	Sectoral Energy-Consumption Estimation by Unmixed Nighttime Light in Shanghai, China. , 2021, , .		0