

Bin Chen

List of Publications by Year in descending order

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63
papers

8,862
citations

172207

29
h-index

128067

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). <i>Science</i> , 2020, 368, 489-493.	6.0	2,940
2	An investigation of transmission control measures during the first 50 days of the COVID-19 epidemic in China. <i>Science</i> , 2020, 368, 638-642.	6.0	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. <i>Science Bulletin</i> , 2019, 64, 370-373.	4.3	761
4	Annual maps of global artificial impervious area (GAIA) between 1985 and 2018. <i>Remote Sensing of Environment</i> , 2020, 236, 111510.	4.6	535
5	Influence of meteorological conditions on PM _{2.5} concentrations across China: A review of methodology and mechanism. <i>Environment International</i> , 2020, 139, 105558.	4.8	281
6	Mapping essential urban land use categories in China (EULLUC-China): preliminary results for 2018. <i>Science Bulletin</i> , 2020, 65, 182-187.	4.3	247
7	Comparison of Spatiotemporal Fusion Models: A Review. <i>Remote Sensing</i> , 2015, 7, 1798-1835.	1.8	153
8	Multi-source remotely sensed data fusion for improving land cover classification. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 124, 27-39.	4.9	133
9	Dynamic assessments of population exposure to urban greenspace using multi-source big data. <i>Science of the Total Environment</i> , 2018, 634, 1315-1325.	3.9	122
10	Dynamic assessment of PM _{2.5} exposure and health risk using remote sensing and geo-spatial big data. <i>Environmental Pollution</i> , 2019, 253, 288-296.	3.7	120
11	How does urban expansion impact people's exposure to green environments? A comparative study of 290 Chinese cities. <i>Journal of Cleaner Production</i> , 2020, 246, 119018.	4.6	109
12	Observed inequality in urban greenspace exposure in China. <i>Environment International</i> , 2021, 156, 106778.	4.8	109
13	Evaluating the "2+26" 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. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 6879-6891.	1.9	100
14	Earth transformed: detailed mapping of global human modification from 1990 to 2017. <i>Earth System Science Data</i> , 2020, 12, 1953-1972.	3.7	96
15	Dynamic monitoring of the Poyang Lake wetland by integrating Landsat and MODIS observations. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 139, 75-87.	4.9	95
16	Spatially and Temporally Weighted Regression: A Novel Method to Produce Continuous Cloud-Free Landsat Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 27-37.	2.7	92
17	Monitoring trends of urban development and environmental impact of Beijing, 1999-2006. <i>Science of the Total Environment</i> , 2011, 409, 3295-3308.	3.9	91
18	The control of anthropogenic emissions contributed to 80% of the decrease in PM _{2.5} concentrations in Beijing from 2013 to 2017. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 13519-13533.	1.9	87

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19	Dynamic monitoring of wetland cover changes using time-series remote sensing imagery. <i>Ecological Informatics</i> , 2014, 24, 17-26.	2.3	83
20	Real-Time Estimation of Population Exposure to PM2.5 Using Mobile- and Station-Based Big Data. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 573.	1.2	67
21	An enhanced bloom index for quantifying floral phenology using multi-scale remote sensing observations. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 156, 108-120.	4.9	66
22	Quantitative estimation of 21st-century urban greenspace changes in Chinese populous cities. <i>Science of the Total Environment</i> , 2017, 609, 956-965.	3.9	64
23	Estimation of hourly full-coverage PM2.5 concentrations at 1-km resolution in China using a two-stage random forest model. <i>Atmospheric Research</i> , 2021, 248, 105146.	1.8	64
24	How does urban expansion interact with cropland loss? A comparison of 14 Chinese cities from 1980 to 2015. <i>Landscape Ecology</i> , 2021, 36, 243-263.	1.9	62
25	California Almond Yield Prediction at the Orchard Level With a Machine Learning Approach. <i>Frontiers in Plant Science</i> , 2019, 10, 809.	1.7	50
26	Mapping essential urban land use categories with open big data: Results for five metropolitan areas in the United States of America. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021, 178, 203-218.	4.9	42
27	How do people in different places experience different levels of air pollution? Using worldwide Chinese as a lens. <i>Environmental Pollution</i> , 2018, 238, 874-883.	3.7	39
28	Mapping essential urban land use categories (EULUC) using geospatial big data: Progress, challenges, and opportunities. <i>Big Earth Data</i> , 2021, 5, 410-441.	2.0	35
29	Wildfire response to changing daily temperature extremes in California's Sierra Nevada. <i>Science Advances</i> , 2021, 7, eabe6417.	4.7	34
30	Global COVID-19 pandemic demands joint interventions for the suppression of future waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26151-26157.	3.3	33
31	A hierarchical spatiotemporal adaptive fusion model using one image pair. <i>International Journal of Digital Earth</i> , 2017, 10, 639-655.	1.6	32
32	Forest Types Classification Based on Multi-Source Data Fusion. <i>Remote Sensing</i> , 2017, 9, 1153.	1.8	31
33	Himawari-8/AHI and MODIS Aerosol Optical Depths in China: Evaluation and Comparison. <i>Remote Sensing</i> , 2019, 11, 1011.	1.8	31
34	Beyond green environments: Multi-scale difference in human exposure to greenspace in China. <i>Environment International</i> , 2022, 166, 107348.	4.8	29
35	Automatic mapping of planting year for tree crops with Landsat satellite time series stacks. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 151, 176-188.	4.9	28
36	Surface water connectivity of seasonal isolated lakes in a dynamic lake-floodplain system. <i>Journal of Hydrology</i> , 2019, 579, 124154.	2.3	27

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37	Regional Mapping of Essential Urban Land Use Categories in China: A Segmentation-Based Approach. <i>Remote Sensing</i> , 2020, 12, 1058.	1.8	27
38	Modeling the aerosol chemical composition of the tropopause over the Tibetan Plateau during the Asian summer monsoon. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11587-11612.	1.9	24
39	Annual dynamic dataset of global cropping intensity from 2001 to 2019. <i>Scientific Data</i> , 2021, 8, 283.	2.4	24
40	A global map of planting years of plantations. <i>Scientific Data</i> , 2022, 9, 141.	2.4	24
41	Advancing Agricultural Production With Machine Learning Analytics: Yield Determinants for California's Almond Orchards. <i>Frontiers in Plant Science</i> , 2020, 11, 290.	1.7	21
42	Climate, Fuel, and Land Use Shaped the Spatial Pattern of Wildfire in California's Sierra Nevada. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005786.	1.3	21
43	Deep Learning for Feature-Level Data Fusion: Higher Resolution Reconstruction of Historical Landsat Archive. <i>Remote Sensing</i> , 2021, 13, 167.	1.8	20
44	Sampling Strategy for Detailed Urban Land Use Classification: A Systematic Analysis in Shenzhen. <i>Remote Sensing</i> , 2020, 12, 1497.	1.8	19
45	Mapping Essential Urban Land Use Categories in Beijing with a Fast Area of Interest (AOI)-Based Method. <i>Remote Sensing</i> , 2021, 13, 477.	1.8	17
46	Fine Land Cover Classification Using Daily Synthetic Landsat-Like Images at 15-m Resolution. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 2359-2363.	1.4	15
47	Penalized Linear Discriminant Analysis of Hyperspectral Imagery for Noise Removal. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017, 14, 359-363.	1.4	15
48	Monitoring tropical forest degradation and restoration with satellite remote sensing: A test using Sabah Biodiversity Experiment. <i>Advances in Ecological Research</i> , 2020, 62, 117-146.	1.4	15
49	Wetland mapping by fusing fine spatial and hyperspectral resolution images. <i>Ecological Modelling</i> , 2017, 353, 95-106.	1.2	13
50	Climate-Conscious Urban Growth Mitigates Urban Warming: Evidence from Shenzhen, China. <i>Environmental Science & Technology</i> , 2019, 53, 11960-11968.	4.6	13
51	Spatial patterns and drivers for wildfire ignitions in California. <i>Environmental Research Letters</i> , 2022, 17, 055004.	2.2	13
52	A novel method to extract urban human settlements by integrating remote sensing and mobile phone locations. <i>Science of Remote Sensing</i> , 2020, 1, 100003.	2.2	12
53	An interpretable deep forest model for estimating hourly PM10 concentration in China using Himawari-8 data. <i>Atmospheric Environment</i> , 2022, 268, 118827.	1.9	12
54	A Novel Method for Measuring Landscape Heterogeneity Changes. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 567-571.	1.4	10

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55	Uncovering the Nature of Urban Land Use Composition Using Multi-Source Open Big Data with Ensemble Learning. Remote Sensing, 2021, 13, 4241.	1.8	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.	1.8	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.	1.8	6
58	Where Does Nighttime Light Come From? Insights from Source Detection and Error Attribution. Remote Sensing, 2020, 12, 1922.	1.8	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.	1.3	3
60	Constructing 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.	1.2	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