Dongmei Chen

List of Publications by Year
in descending order

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60	1,788	361413 20	289244 40
papers	citations	h-index	g-index

82	82	82	2634
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Segmentation for Object-Based Image Analysis (OBIA): A review of algorithms and challenges from remote sensing perspective. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 150, 115-134.	11.1	361
2	A semi-empirical model for predicting hourly ground-level fine particulate matter (PM2.5) concentration in southern Ontario from satellite remote sensing and ground-based meteorological measurements. Remote Sensing of Environment, 2010, 114, 221-229.	11.0	161
3	Comparing Deep Neural Networks, Ensemble Classifiers, and Support Vector Machine Algorithms for Object-Based Urban Land Use/Land Cover Classification. Remote Sensing, 2019, 11, 1713.	4.0	129
4	Assessment of cadmium (Cd) concentration in arable soil in China. Environmental Science and Pollution Research, 2015, 22, 4932-4941.	5.3	125
5	Mapping mangrove forests using multi-tidal remotely-sensed data and a decision-tree-based procedure. International Journal of Applied Earth Observation and Geoinformation, 2017, 62, 201-214.	2.8	69
6	An improved knowledge-informed NSGA-II for multi-objective land allocation (MOLA). Geo-Spatial Information Science, 2018, 21, 273-287.	5.3	59
7	Long-Term Changes of Lake Level and Water Budget in the Nam Co Lake Basin, Central Tibetan Plateau. Journal of Hydrometeorology, 2014, 15, 1312-1322.	1.9	48
8	An improved change detection approach using tri-temporal logic-verified change vector analysis. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 161, 278-293.	11.1	45
9	A targeted change-detection procedure by combining change vector analysis and post-classification approach. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 114, 115-124.	11.1	40
10	Estimating Ground-Level Ozone Concentrations in Eastern China Using Satellite-Based Precursors. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4754-4763.	6.3	40
11	Characteristics and drivers of global NDVIâ€based FPAR from 1982 to 2006. Global Biogeochemical Cycles, 2012, 26, .	4.9	32
12	The effect of spatial autocorrelation and class proportion on the accuracy measures from different sampling designs. ISPRS Journal of Photogrammetry and Remote Sensing, 2009, 64, 140-150.	11.1	31
13	Comparison of linear and nonlinear spectral unmixing approaches: a case study with multispectral TM imagery. International Journal of Remote Sensing, 2017, 38, 773-795.	2.9	31
14	A comparison of three heuristic optimization algorithms for solving the multi-objective land allocation (MOLA) problem. Annals of GIS, 2018, 24, 19-31.	3.1	31
15	Assessment of arsenic (As) occurrence in arable soil and its related health risk in China. Environmental Geochemistry and Health, 2016, 38, 691-702.	3.4	29
16	Estimation of monthly bulk nitrate deposition in China based on satellite NO2 measurement by the Ozone Monitoring Instrument. Remote Sensing of Environment, 2017, 199, 93-106.	11.0	29
17	Spatio-Temporal Data Comparisons for Global Highly Pathogenic Avian Influenza (HPAI) H5N1 Outbreaks. PLoS ONE, 2010, 5, e15314.	2.5	28
18	Spatial Distribution of Mercury (Hg) Concentration in Agricultural Soil and Its Risk Assessment on Food Safety in China. Sustainability, 2016, 8, 795.	3.2	26

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19	Decadal Trends in Wet Sulfur Deposition in China Estimated From OMI SO₂ Columns. Journal of Geophysical Research D: Atmospheres, 2018, 123, 10,796.	3.3	23
20	Long-term trends in NO2 columns related to economic developments and air quality policies from 1997 to 2016 in China. Science of the Total Environment, 2018, 639, 146-155.	8.0	21
21	Spectral, spatial, and temporal sensitivity of correlating MODIS aerosol optical depth with ground-based fine particulate matter (PM2.5) across southern Ontario. Canadian Journal of Remote Sensing, 2010, 36, 119-128.	2.4	20
22	Commuting behaviors and exposure to air pollution in Montreal, Canada. Science of the Total Environment, 2015, 508, 193-198.	8.0	20
23	Validation and Analysis of Long-Term AATSR Land Surface Temperature Product in the Heihe River Basin, China. Remote Sensing, 2017, 9, 152.	4.0	20
24	Nonparametric Evaluation of Dynamic Disease Risk: A Spatio-Temporal Kernel Approach. PLoS ONE, 2011, 6, e17381.	2.5	20
25	On the versatility of popular and recently proposed supervised evaluation metrics for segmentation quality of remotely sensed images: An experimental case study of building extraction. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 160, 275-290.	11.1	19
26	Risk signals of an influenza pandemic caused by highly pathogenic avian influenza subtype H5N1: Spatio-temporal perspectives. Veterinary Journal, 2012, 192, 417-421.	1.7	18
27	Impact of aerosols on terrestrial gross primary productivity in North China using an improved boreal ecosystem productivity simulator with satellite-based aerosol optical depth. GIScience and Remote Sensing, 2020, 57, 258-270.	5.9	15
28	Identification of Potential Sources of Mercury (Hg) in Farmland Soil Using a Decision Tree Method in China. International Journal of Environmental Research and Public Health, 2016, 13, 1111.	2.6	14
29	Assessing traffic and polycyclic aromatic hydrocarbon exposure in Montreal, Canada. Science of the Total Environment, 2014, 470-471, 945-953.	8.0	13
30	Evaluation of Lead in Arable Soils, China. Clean - Soil, Air, Water, 2015, 43, 1232-1240.	1.1	13
31	Analyzing the Potential Risk of Climate Change on Lyme Disease in Eastern Ontario, Canada Using Time Series Remotely Sensed Temperature Data and Tick Population Modelling. Remote Sensing, 2017, 9, 609.	4.0	13
32	Atmospheric aerosol pollution across China: a spatiotemporal analysis of satellite-based aerosol optical depth during 2000â€“2016. International Journal of Digital Earth, 2019, 12, 843-857.	3.9	13
33	Estimated long-term variability of direct and diffuse solar radiation in North China during 1959â€“2016. Theoretical and Applied Climatology, 2019, 137, 153-163.	2.8	13
34	The impact of image and class structure upon sub-pixel mapping accuracy using the pixel-swapping algorithm. Annals of GIS, 2011, 17, 31-42.	3.1	12
35	Spatial and temporal aberration detection methods for disease outbreaks in syndromic surveillance systems. Annals of GIS, 2011, 17, 211-220.	3.1	12
36	A review and meta-analysis of Generative Adversarial Networks and their applications in remote sensing. International Journal of Applied Earth Observation and Geoinformation, 2022, 108, 102734.	2.8	11

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37	Human Activity Intensity and Its Spatial-Temporal Evolution in Chinaâ€™s Border Areas. Land, 2022, 11, 1089.	2.9	11
38	Seasonal dynamic pattern analysis on global FPAR derived from AVHRR GIMMS NDVI. International Journal of Digital Earth, 2012, 5, 439-455.	3.9	10
39	A Generalized Evaluation Scheme for Comparing Temperature Products from Satellite Observations, Numerical Weather Model, and Ground Measurements Over the Tibetan Plateau. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3876-3894.	6.3	10
40	Comparison of seasonal surface temperature trend, spatial variability, and elevation dependency from satellite-derived products and numerical simulations over the Tibetan Plateau from 2003 to 2011. International Journal of Remote Sensing, 2019, 40, 1844-1857.	2.9	10
41	Estimation of Corn Canopy Chlorophyll Content Using Derivative Spectra in the O2â€“A Absorption Band. Frontiers in Plant Science, 2019, 10, 1047.	3.6	10
42	Leveraging Deep Neural Networks to Map Caribou Lichen in High-Resolution Satellite Images Based on a Small-Scale, Noisy UAV-Derived Map. Remote Sensing, 2021, 13, 2658.	4.0	9
43	Analyzing the Correlation between Deer Habitat and the Component of the Risk for Lyme Disease in Eastern Ontario, Canada: A GIS-Based Approach. ISPRS International Journal of Geo-Information, 2015, 4, 105-123.	2.9	8
44	An improved approach for geocoding Canadian postal codeâ€“based data in healthâ€related studies. Canadian Geographer / Geographie Canadien, 2016, 60, 270-281.	1.5	8
45	An RP-MCE-SOP Framework for Chinaâ€™s County-Level â€œThree-Spaceâ€•and â€œThree-Lineâ€•Planningâ€”An Integration of Rational Planning, Multi-Criteria Evaluation, and Spatial Optimization. Sustainability, 2019, 11, 2997.	3.2	8
46	Change Detection Based on Low-Level to High-Level Features Integration With Limited Samples. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 6260-6276.	4.9	8
47	Evaluating the Impact of Environmental Temperature on Global Highly Pathogenic Avian Influenza (HPAI) H5N1 Outbreaks in Domestic Poultry. International Journal of Environmental Research and Public Health, 2014, 11, 6388-6399.	2.6	7
48	Variability of satellite-based total aerosols and the relationship with emission, meteorology and landscape in North China during 2000â€“2016. Environmental Earth Sciences, 2018, 77, 1.	2.7	7
49	The Impact of Seasonality and Land Cover on the Consistency of Relationship between Air Temperature and LST Derived from Landsat 7 and MODIS at a Local Scale: A Case Study in Southern Ontario. Land, 2021, 10, 672.	2.9	7
50	Comparison of variability and change rate in tropospheric NO2 column obtained from satellite products across China during 1997â€“2015. International Journal of Digital Earth, 2017, 10, 814-828.	3.9	6
51	Improved empirical models for estimating surface direct and diffuse solar radiation at monthly and daily level: A case study in North China. Progress in Physical Geography, 2019, 43, 80-94.	3.2	5
52	Relationships among COVID-19 Prevention Practices, Risk Perception and Individual Characteristics: A Temporal Analysis. International Journal of Environmental Research and Public Health, 2021, 18, 10901.	2.6	4
53	Declining precipitation acidity from H2SO4 and HNO3 across China inferred by OMI products. Atmospheric Environment, 2020, 224, 117359.	4.1	3
54	Estimating District-Level Electricity Consumption Using Remotely Sensed Data in Eastern Economic Corridor, Thailand. Remote Sensing, 2021, 13, 4654.	4.0	3

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55	Building-based urban land use classification from vector databases in Manchester, UK. , 2012, , .		2
56	A Slight Temperature Warming Trend Occurred over Lake Ontario from 2001 to 2018. Land, 2021, 10, 1315.	2.9	2
57	Evaluating Image Normalization via GANs for Environmental Mapping: A Case Study of Lichen Mapping Using High-Resolution Satellite Imagery. Remote Sensing, 2021, 13, 5035.	4.0	2
58	Comparison of apportionment methods for assigning trip data to rezoned traffic analysis zones: A case study of Toronto, Canada. Canadian Geographer / Geographie Canadien, 2021, 65, 321-332.	1.5	1
59	A system dynamics model for urban sustainable transportation planning. , 2015, , .		0
60	Building-Level Change Detection from Large-Scale Historical Vector Data by Using Direct and a Three-Tier Post-classification Comparison. Lecture Notes in Computer Science, 2018, , 300-316.	1.3	0