

Chengbin Deng

List of Publications by Year in descending order

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39
papers

1,954
citations

394421

19
h-index

377865

34
g-index

40
all docs

40
docs citations

40
times ranked

2328
citing authors

#	ARTICLE	IF	CITATIONS
1	BCI: A biophysical composition index for remote sensing of urban environments. <i>Remote Sensing of Environment</i> , 2012, 127, 247-259.	11.0	245
2	Understanding an urbanizing planet: Strategic directions for remote sensing. <i>Remote Sensing of Environment</i> , 2019, 228, 164-182.	11.0	227
3	Examining the impacts of urban biophysical compositions on surface urban heat island: A spectral unmixing and thermal mixing approach. <i>Remote Sensing of Environment</i> , 2013, 131, 262-274.	11.0	179
4	A spatially adaptive spectral mixture analysis for mapping subpixel urban impervious surface distribution. <i>Remote Sensing of Environment</i> , 2013, 133, 62-70.	11.0	152
5	Evaluation of machine learning techniques with multiple remote sensing datasets in estimating monthly concentrations of ground-level PM2.5. <i>Environmental Pollution</i> , 2018, 242, 1417-1426.	7.5	125
6	Analysis of sustainable utilization of water resources based on the improved water resources ecological footprint model: A case study of Hubei Province, China. <i>Journal of Environmental Management</i> , 2020, 262, 110331.	7.8	106
7	Continuous subpixel monitoring of urban impervious surface using Landsat time series. <i>Remote Sensing of Environment</i> , 2020, 238, 110929.	11.0	88
8	Automated delineation of karst sinkholes from LiDAR-derived digital elevation models. <i>Geomorphology</i> , 2016, 266, 1-10.	2.6	76
9	The use of single-date MODIS imagery for estimating large-scale urban impervious surface fraction with spectral mixture analysis and machine learning techniques. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2013, 86, 100-110.	11.1	71
10	Viewing urban decay from the sky: A multi-scale analysis of residential vacancy in a shrinking U.S. city. <i>Landscape and Urban Planning</i> , 2015, 141, 88-99.	7.5	63
11	The characteristics of multi-source mobility datasets and how they reveal the luxury nature of social distancing in the U.S. during the COVID-19 pandemic. <i>International Journal of Digital Earth</i> , 2021, 14, 424-442.	3.9	62
12	Real-Time Human Objects Tracking for Smart Surveillance at the Edge. , 2018, , .		60
13	Investigating urban heat island through spatial analysis of New York City streetscapes. <i>Journal of Cleaner Production</i> , 2019, 233, 972-992.	9.3	57
14	Evaluation of AMSR2 soil moisture products over the contiguous United States using in situ data from the International Soil Moisture Network. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 45, 187-199.	2.8	55
15	Deep fake geography? When geospatial data encounter Artificial Intelligence. <i>Cartography and Geographic Information Science</i> , 2021, 48, 338-352.	3.0	47
16	Improving the housing-unit method for small-area population estimation using remote-sensing and GIS information. <i>International Journal of Remote Sensing</i> , 2010, 31, 5673-5688.	2.9	39
17	A Semantic and Sentiment Analysis on Online Neighborhood Reviews for Understanding the Perceptions of People toward Their Living Environments. <i>Annals of the American Association of Geographers</i> , 2019, 109, 1052-1073.	2.2	39
18	Estimating very high resolution urban surface temperature using a spectral unmixing and thermal mixing approach. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2013, 23, 155-164.	2.8	34

#	ARTICLE	IF	CITATIONS
19	Subpixel urban impervious surface mapping: the impact of input Landsat images. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 133, 89-103.	11.1	28
20	Spatially Constrained Multiple Endmember Spectral Mixture Analysis for Quantifying Subpixel Urban Impervious Surfaces. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 1976-1984.	4.9	20
21	Mapping Above-Ground Biomass by Integrating Optical and SAR Imagery: A Case Study of Xixi National Wetland Park, China. <i>Remote Sensing</i> , 2016, 8, 647.	4.0	16
22	Quantifying the spatial and temporal relationship between air and land surface temperatures of different land-cover types in Southeastern China. <i>International Journal of Remote Sensing</i> , 2017, 38, 1114-1136.	2.9	15
23	Cloud and Cloud Shadow Detection for Landsat Images: The Fundamental Basis for Analyzing Landsat Time Series. , 2018, , 3-23.		15
24	Integrating multi-source remotely sensed datasets to examine the impact of tree height and pattern information on crimes in Milwaukee, Wisconsin. <i>Applied Geography</i> , 2015, 65, 38-48.	3.7	14
25	Automated Construction of Multiple Regional Libraries for Neighborhoodwise Local Multiple Endmember Unmixing. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 4232-4246.	4.9	14
26	Differentiating tower karst (fenglin) and cockpit karst (fengcong) using DEM contour, slope, and centroid. <i>Environmental Earth Sciences</i> , 2014, 72, 407.	2.7	13
27	Improving Small-Area Population Estimation: An Integrated Geographic and Demographic Approach. <i>Annals of the American Association of Geographers</i> , 2013, 103, 1123-1141.	3.0	13
28	A Data-Driven Framework for Walkability Measurement with Open Data: A Case Study of Triple Cities, New York. <i>ISPRS International Journal of Geo-Information</i> , 2020, 9, 36.	2.9	13
29	Social media data as a proxy for hourly fine-scale electric power consumption estimation. <i>Environment and Planning A</i> , 2018, 50, 1553-1557.	3.6	10
30	Incorporating Endmember Variability into Linear Unmixing of Coarse Resolution Imagery: Mapping Large-Scale Impervious Surface Abundance Using a Hierarchically Object-Based Spectral Mixture Analysis. <i>Remote Sensing</i> , 2015, 7, 9205-9229.	4.0	9
31	Use of smart meter readings and nighttime light images to track pixel-level electricity consumption. <i>Remote Sensing Letters</i> , 2019, 10, 205-213.	1.4	9
32	Agent-based modeling to simulate the dengue spread. <i>Proceedings of SPIE</i> , 2008, , .	0.8	8
33	A geographic approach to carbon accounting of Wisconsin. <i>Journal of Maps</i> , 2016, 12, 324-333.	2.0	4
34	Day and night synergy to improve subpixel urban impervious surface mapping in desert environments at 30-m Landsat resolution. <i>International Journal of Remote Sensing</i> , 2020, 41, 9588-9605.	2.9	4
35	Mortality risk of a future heat event across a subtropical city: implications for community planning and health policy. <i>Natural Hazards</i> , 2020, 103, 623-637.	3.4	4
36	Acquiring height distribution information about high-rises in Beijing using shadow in SPOT-5. <i>Proceedings of SPIE</i> , 2008, , .	0.8	1

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37	Analysis of neighborhood radii influence on segregation. , 2008, , .		0
38	Multi-agent simulation of the von Thunen model formation mechanism. , 2008, , .		0
39	Does vegetation matter for the criminal behavior among people with serious mental illness?. Asian Social Work and Policy Review, 2020, 14, 22-33.	1.4	0