

Kai Cao

List of Publications by Year in descending order

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55
papers

1,362
citations

361296

20
h-index

360920

35
g-index

55
all docs

55
docs citations

55
times ranked

1523
citing authors

#	ARTICLE	IF	CITATIONS
1	Disaster Image Classification by Fusing Multimodal Social Media Data. <i>ISPRS International Journal of Geo-Information</i> , 2021, 10, 636.	1.4	17
2	An urban big data-based air quality index prediction: A case study of routes planning for outdoor activities in Beijing. <i>Environment and Planning B: Urban Analytics and City Science</i> , 2020, 47, 948-963.	1.0	5
3	Big data, spatial optimization, and planning. <i>Environment and Planning B: Urban Analytics and City Science</i> , 2020, 47, 941-947.	1.0	1
4	The Spatial Optimization and Evaluation of the Economic, Ecological, and Social Value of Urban Green Space in Shenzhen. <i>Sustainability</i> , 2020, 12, 1844.	1.6	12
5	Spatial Multi-Objective Land Use Optimization toward Livability Based on Boundary-Based Genetic Algorithm: A Case Study in Singapore. <i>ISPRS International Journal of Geo-Information</i> , 2020, 9, 40.	1.4	16
6	Spatial optimization for land use planning: Opportunities and challenges. <i>Transactions in GIS</i> , 2019, 23, 641-644.	1.0	5
7	Pareto law-based regional inequality analysis of PM2.5 air pollution and economic development in China. <i>Journal of Environmental Management</i> , 2019, 252, 109635.	3.8	22
8	Spatio-temporal land use multi-objective optimization: A case study in Central China. <i>Transactions in GIS</i> , 2019, 23, 726-744.	1.0	21
9	National Green GDP Assessment and Prediction for China Based on a CA-Markov Land Use Simulation Model. <i>Sustainability</i> , 2019, 11, 576.	1.6	22
10	Spatial Analysis of Big Data Industrial Agglomeration and Development in China. <i>Sustainability</i> , 2019, 11, 1783.	1.6	14
11	Comparison of Approaches for Urban Functional Zones Classification Based on Multi-Source Geospatial Data: A Case Study in Yuzhong District, Chongqing, China. <i>Sustainability</i> , 2019, 11, 660.	1.6	27
12	Ecological Conservation and Economic Development-Based Multiobjective Land-Use Optimization: Case Study of a Rapidly Developing City in Central China. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2019, 145, .	0.8	12
13	Temporal-spatial analysis of crop residue burning in China and its impact on aerosol pollution. <i>Environmental Pollution</i> , 2019, 245, 616-626.	3.7	19
14	A Big Data-Based Geographically Weighted Regression Model for Public Housing Prices: A Case Study in Singapore. <i>Annals of the American Association of Geographers</i> , 2019, 109, 173-186.	1.5	39
15	GIS-MCDA based cycling paths planning: a case study in Singapore. <i>Applied Geography</i> , 2018, 94, 107-118.	1.7	36
16	Geo-sensor(s) for potential prediction of earthquakes: can earthquake be predicted by abnormal animal phenomena?. <i>Annals of GIS</i> , 2018, 24, 125-138.	1.4	12
17	Geographical Accessibility of Community Health Assist Scheme General Practitioners for the Elderly Population in Singapore: A Case Study on the Elderly Living in Housing Development Board Flats. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 1988.	1.2	15
18	Factor analysis for aerosol optical depth and its prediction from the perspective of land-use change. <i>Ecological Indicators</i> , 2018, 93, 458-469.	2.6	11

#	ARTICLE	IF	CITATIONS
19	GIS-Based Accessibility Analysis of Health-Care Facilities: A Case Study in Hong Kong. , 2018, , 402-410.		3
20	Spatial Optimization for Sustainable Land Use Planning. , 2018, , 244-252.		3
21	The Study of the Effects of Built Form on Pedestrian Activities: A GIS-Based Integrated Approach. , 2018, , 330-344.		0
22	Integrative assessment and management implications on ecosystem services loss of coastal wetlands due to reclamation. Journal of Cleaner Production, 2017, 163, S101-S112.	4.6	38
23	A practical approach to retrieving the finer areas of algal bloom in inland lakes from coarse spatial resolution satellite data. International Journal of Remote Sensing, 2017, 38, 4069-4085.	1.3	5
24	An innovative GPS trajectory data based model for geographic recommendation service. Transactions in GIS, 2017, 21, 880-896.	1.0	13
25	Improving spatiotemporal reflectance fusion using image inpainting and steering kernel regression techniques. International Journal of Remote Sensing, 2017, 38, 706-727.	1.3	22
26	Extracting building patterns with multilevel graph partition and building grouping. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 122, 81-96.	4.9	41
27	A multi-objective optimization approach for health-care facility location-allocation problems in highly developed cities such as Hong Kong. Computers, Environment and Urban Systems, 2016, 59, 220-230.	3.3	104
28	Beijing temples and their social matrix – A GIS reconstruction of the 1912–1937 social scape. Annals of GIS, 2016, 22, 129-140.	1.4	4
29	Cyberinfrastructure, GIS, and spatial optimization: opportunities and challenges. International Journal of Geographical Information Science, 2016, 30, 427-431.	2.2	12
30	Study on selecting sensitive environmental variables in modelling species spatial distribution. Annals of GIS, 2016, 22, 57-69.	1.4	9
31	Improvements in Typhoon Intensity Change Classification by Incorporating an Ocean Coupling Potential Intensity Index into Decision Trees*,+. Weather and Forecasting, 2016, 31, 95-106.	0.5	28
32	Optimal routing for waste collection: a case study in Singapore. International Journal of Geographical Information Science, 2016, 30, 554-572.	2.2	16
33	Evaluation of chlorophyll-a retrieval algorithms based on MERIS bands for optically varying eutrophic inland lakes. Science of the Total Environment, 2015, 530-531, 373-382.	3.9	20
34	Municipal solid waste collection optimization in Singapore. Applied Geography, 2015, 62, 182-190.	1.7	53
35	Spatial and Temporal Image Fusion via Regularized Spatial Unmixing. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1362-1366.	1.4	45
36	Performance improvement techniques for geospatial web services in a cyberinfrastructure environment – A case study with a disaster management portal. Computers, Environment and Urban Systems, 2015, 54, 314-325.	3.3	42

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37	Intelligent polar cyberinfrastructure: enabling semantic search in geospatial metadata catalogue to support polar data discovery. <i>Earth Science Informatics</i> , 2015, 8, 111-123.	1.6	15
38	A generalization of spatial and temporal fusion methods for remotely sensed surface parameters. <i>International Journal of Remote Sensing</i> , 2015, 36, 4411-4445.	1.3	56
39	Calibrating a cellular automata model for understanding rural-urban land conversion: a Pareto front-based multi-objective optimization approach. <i>International Journal of Geographical Information Science</i> , 2014, 28, 1028-1046.	2.2	37
40	Variational model-based very high spatial resolution remote sensing image fusion. <i>Journal of Applied Remote Sensing</i> , 2014, 8, 083565.	0.6	2
41	Coarse-grained parallel genetic algorithm applied to a vector based land use allocation optimization problem: the case study of Tongzhou Newtown, Beijing, China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013, 27, 1133-1142.	1.9	51
42	Semantic overlay network for large-scale spatial information indexing. <i>Computers and Geosciences</i> , 2013, 57, 208-217.	2.0	10
43	The application of decision tree to intensity change classification of tropical cyclones in western North Pacific. <i>Geophysical Research Letters</i> , 2013, 40, 1883-1887.	1.5	26
44	Spatial and temporal analysis of water quality trends in the Min River Basin. , 2012, , .		0
45	Assimilating multi-site measurements for semi-distributed hydrological model updating. <i>Quaternary International</i> , 2012, 282, 122-129.	0.7	11
46	Sustainable land use optimization using Boundary-based Fast Genetic Algorithm. <i>Computers, Environment and Urban Systems</i> , 2012, 36, 257-269.	3.3	201
47	Spatial-temporal analysis of land use and coverage change in Nanjing based on GIS/RS. , 2011, , .		1
48	Spatial multi-objective land use optimization: extensions to the non-dominated sorting genetic algorithm-II. <i>International Journal of Geographical Information Science</i> , 2011, 25, 1949-1969.	2.2	176
49	User behavior in triple space: Working in a coordinated multiple view (CMV) environment. , 2011, , .		0
50	Geographically Weighted Regression model (GWR) based spatial analysis of house price in Shenzhen. , 2011, , .		10
51	Modeling conversion of rural-urban land use based on cellular automata and genetic algorithm. , 2011, , .		1
52	Spatio-temporal data model based on dynamic correlation. , 2009, , .		0
53	Land use allocation optimization towards sustainable development based on genetic algorithm. , 2009, , .		0
54	The Study of Automatically Extracting Water Information in City Zone Based On SPOT5 Image. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
55	Spatial analysis of public residential housing's electricity consumption in relation to urban landscape and building characteristics: A case study in Singapore. Energy and Environment, 0, , 0958305X2110560.	2.7	1