

Min Chen

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

3,318
citations

136950

32
h-index

182427

51
g-index

103
all docs

103
docs citations

103
times ranked

3032
citing authors

#	ARTICLE	IF	CITATIONS
1	A practical approach for estimating the escape ratio of near-infrared solar-induced chlorophyll fluorescence. <i>Remote Sensing of Environment</i> , 2019, 232, 111209.	11.0	213
2	Optical vegetation indices for monitoring terrestrial ecosystems globally. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 477-493.	29.7	191
3	Virtual Geographic Environments (VGEs): A New Generation of Geographic Analysis Tool. <i>Earth-Science Reviews</i> , 2013, 126, 74-84.	9.1	176
4	Reflections and speculations on the progress in Geographic Information Systems (GIS): a geographic perspective. <i>International Journal of Geographical Information Science</i> , 2019, 33, 346-367.	4.8	149
5	Virtual Geographic Environment: A Workspace for Computer-Aided Geographic Experiments. <i>Annals of the American Association of Geographers</i> , 2013, 103, 465-482.	3.0	134
6	Global land use for 2015–2100 at 0.05° resolution under diverse socioeconomic and climate scenarios. <i>Scientific Data</i> , 2020, 7, 320.	5.3	89
7	Position paper: Open web-distributed integrated geographic modelling and simulation to enable broader participation and applications. <i>Earth-Science Reviews</i> , 2020, 207, 103223.	9.1	87
8	Modeling urban vertical growth using cellular automata—Guangzhou as a case study. <i>Applied Geography</i> , 2014, 53, 172-186.	3.7	74
9	Regional contribution to variability and trends of global gross primary productivity. <i>Environmental Research Letters</i> , 2017, 12, 105005.	5.2	65
10	Field evidences for the positive effects of aerosols on tree growth. <i>Global Change Biology</i> , 2018, 24, 4983-4992.	9.5	64
11	Radiance-based NIR _v as a proxy for GPP of corn and soybean. <i>Environmental Research Letters</i> , 2020, 15, 034009.	5.2	63
12	Watershed System Model: The Essentials to Model Complex Human–Nature System at the River Basin Scale. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3019-3034.	3.3	57
13	Real-Geographic-Scenario-Based Virtual Social Environments: Integrating Geography with Social Research. <i>Environment and Planning B: Planning and Design</i> , 2013, 40, 1103-1121.	1.7	56
14	Virtual Environments Begin to Embrace Process-based Geographic Analysis. <i>Transactions in GIS</i> , 2015, 19, 493-498.	2.3	56
15	Virtual geographic environments (VGEs): originating from or beyond virtual reality (VR)? <i>International Journal of Digital Earth</i> , 2018, 11, 329-333.	3.9	54
16	Prototyping an open environment for sharing geographical analysis models on cloud computing platform. <i>International Journal of Digital Earth</i> , 2013, 6, 356-382.	3.9	52
17	Geographic scenario: a possible foundation for further development of virtual geographic environments. <i>International Journal of Digital Earth</i> , 2018, 11, 356-368.	3.9	51
18	Enhanced water use efficiency in global terrestrial ecosystems under increasing aerosol loadings. <i>Agricultural and Forest Meteorology</i> , 2017, 237-238, 39-49.	4.8	50

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19	Humans drive future water scarcity changes across all Shared Socioeconomic Pathways. <i>Environmental Research Letters</i> , 2020, 15, 014007.	5.2	50
20	Chinese progress in geomorphometry. <i>Journal of Chinese Geography</i> , 2017, 27, 1389-1412.	3.9	44
21	Design and development of a service-oriented wrapper system for sharing and reusing distributed geanalysis models on the web. <i>Environmental Modelling and Software</i> , 2019, 111, 498-509.	4.5	44
22	Evaluating aerosol direct radiative effects on global terrestrial ecosystem carbon dynamics from 2003 to 2010. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 66, 21808.	1.6	43
23	Developing dynamic virtual geographic environments (VGEs) for geographic research. <i>Environmental Earth Sciences</i> , 2015, 74, 6975-6980.	2.7	43
24	Discovering spatial and temporal patterns from taxi-based Floating Car Data: a case study from Nanjing. <i>GIScience and Remote Sensing</i> , 2017, 54, 617-638.	5.9	41
25	Estimating hourly land surface downward shortwave and photosynthetically active radiation from DSCOVR/EPIC observations. <i>Remote Sensing of Environment</i> , 2019, 232, 111320.	11.0	40
26	Combining near-infrared radiance of vegetation and fluorescence spectroscopy to detect effects of abiotic changes and stresses. <i>Remote Sensing of Environment</i> , 2022, 270, 112856.	11.0	39
27	Satellite footprint data from OCO-2 and TROPOMI reveal significant spatio-temporal and inter-vegetation type variabilities of solar-induced fluorescence yield in the U.S. Midwest. <i>Remote Sensing of Environment</i> , 2020, 241, 111728.	11.0	38
28	A data description model for reusing, sharing and integrating geo-analysis models. <i>Environmental Earth Sciences</i> , 2015, 74, 7081-7099.	2.7	37
29	Spatial Sequential Modeling and Predication of Global Land Use and Land Cover Changes by Integrating a Global Change Assessment Model and Cellular Automata. <i>Earth's Future</i> , 2019, 7, 1102-1116.	6.3	36
30	An Efficient Method of Estimating Downward Solar Radiation Based on the MODIS Observations for the Use of Land Surface Modeling. <i>Remote Sensing</i> , 2014, 6, 7136-7157.	4.0	35
31	Potential of hotspot solar-induced chlorophyll fluorescence for better tracking terrestrial photosynthesis. <i>Global Change Biology</i> , 2021, 27, 2144-2158.	9.5	35
32	Teamwork-oriented integrated modeling method for geo-problem solving. <i>Environmental Modelling and Software</i> , 2019, 119, 111-123.	4.5	34
33	A global sensitivity analysis approach for identifying critical sources of uncertainty in non-identifiable, spatially distributed environmental models: A holistic analysis applied to SWAT for input datasets and model parameters. <i>Environmental Modelling and Software</i> , 2020, 127, 104676.	4.5	34
34	The phenology of leaf quality and its within-canopy variation is essential for accurate modeling of photosynthesis in tropical evergreen forests. <i>Global Change Biology</i> , 2017, 23, 4814-4827.	9.5	33
35	An empirical study on the intra-urban goods movement patterns using logistics big data. <i>International Journal of Geographical Information Science</i> , 2020, 34, 1089-1116.	4.8	32
36	What's going on about geo-process modeling in virtual geographic environments (VGEs). <i>Ecological Modelling</i> , 2016, 319, 147-154.	2.5	31

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37	Lunar Crater Detection Based on Terrain Analysis and Mathematical Morphology Methods Using Digital Elevation Models. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 3681-3692.	6.3	30
38	Influence of Vegetation Growth on the Enhanced Seasonality of Atmospheric CO ₂ . <i>Global Biogeochemical Cycles</i> , 2018, 32, 32-41.	4.9	29
39	A Study on Data Processing Services for the Operation of GeoAnalysis Models in the Open Web Environment. <i>Earth and Space Science</i> , 2018, 5, 844-862.	2.6	29
40	A radiative transfer model for solar induced fluorescence using spectral invariants theory. <i>Remote Sensing of Environment</i> , 2020, 240, 111678.	11.0	29
41	Aerosol effects on global land surface energy fluxes during 2003–2010. <i>Geophysical Research Letters</i> , 2014, 41, 7875-7881.	4.0	28
42	Managing and sharing geographic knowledge in virtual geographic environments (VGEs). <i>Annals of GIS</i> , 2015, 21, 261-263.	3.1	28
43	A virtual geographic environment system for multiscale air quality analysis and decision making: A case study of SO ₂ concentration simulation. <i>Applied Geography</i> , 2015, 63, 326-336.	3.7	26
44	Virtual geographic environments in socio-environmental modeling: a fancy distraction or a key to communication?. <i>International Journal of Digital Earth</i> , 2018, 11, 408-419.	3.9	25
45	Pronounced and unavoidable impacts of low-end global warming on northern high-latitude land ecosystems. <i>Environmental Research Letters</i> , 2020, 15, 044006.	5.2	25
46	A physiological signal derived from sun-induced chlorophyll fluorescence quantifies crop physiological response to environmental stresses in the U.S. Corn Belt. <i>Environmental Research Letters</i> , 2021, 16, 124051.	5.2	25
47	Construction of a virtual lunar environment platform. <i>International Journal of Digital Earth</i> , 2013, 6, 469-482.	3.9	24
48	Estimating near-infrared reflectance of vegetation from hyperspectral data. <i>Remote Sensing of Environment</i> , 2021, 267, 112723.	11.0	24
49	Scale matching of multiscale digital elevation model (DEM) data and the Weather Research and Forecasting (WRF) model: a case study of meteorological simulation in Hong Kong. <i>Arabian Journal of Geosciences</i> , 2014, 7, 2215-2223.	1.3	22
50	A data sharing method in the open web environment: Data sharing in hydrology. <i>Journal of Hydrology</i> , 2020, 587, 124973.	5.4	22
51	Practical approaches for normalizing directional solar-induced fluorescence to a standard viewing geometry. <i>Remote Sensing of Environment</i> , 2021, 255, 112171.	11.0	22
52	A Weighted Algorithm Based on Normalized Mutual Information for Estimating the Chlorophyll-a Concentration in Inland Waters Using Geostationary Ocean Color Imager (GOCI) Data. <i>Remote Sensing</i> , 2015, 7, 11731-11752.	4.0	21
53	DSCOVR/EPIC-derived global hourly and daily downward shortwave and photosynthetically active radiation data at 0.1°–0.1° resolution. <i>Earth System Science Data</i> , 2020, 12, 2209-2221.	9.9	21
54	Demeter – A Land Use and Land Cover Change Disaggregation Model. <i>Journal of Open Research Software</i> , 2018, 6, 15.	5.9	21

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55	An object-oriented data model built for blind navigation in outdoor space. <i>Applied Geography</i> , 2015, 60, 84-94.	3.7	20
56	Automatic detection of lunar craters based on DEM data with the terrain analysis method. <i>Planetary and Space Science</i> , 2018, 160, 1-11.	1.7	20
57	Boundary Detection of Dispersal Impact Craters Based on Morphological Characteristics Using Lunar Digital Elevation Model. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 5632-5646.	4.9	19
58	CO2 emissions embodied in trade: Evidence for Hong Kong SAR. <i>Journal of Cleaner Production</i> , 2019, 239, 117918.	9.3	19
59	Intermediate Aerosol Loading Enhances Photosynthetic Activity of Croplands. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091893.	4.0	19
60	Scale compatibility analysis in geographic process research: A case study of a meteorological simulation in Hong Kong. <i>Applied Geography</i> , 2014, 52, 135-143.	3.7	18
61	Participatory intercomparison strategy for terrestrial carbon cycle models based on a service-oriented architecture. <i>Future Generation Computer Systems</i> , 2020, 112, 449-466.	7.5	18
62	A network distance and graph-partitioning-based clustering method for improving the accuracy of urban hotspot detection. <i>Geocarto International</i> , 2019, 34, 293-315.	3.5	17
63	Quantifying leaf optical properties with spectral invariants theory. <i>Remote Sensing of Environment</i> , 2021, 253, 112131.	11.0	17
64	Opportunistic Market-Driven Regional Shifts of Cropping Practices Reduce Food Production Capacity of China. <i>Earth's Future</i> , 2018, 6, 634-642.	6.3	16
65	A function-based linear map symbol building and rendering method using shader language. <i>International Journal of Geographical Information Science</i> , 2016, 30, 143-167.	4.8	15
66	A 27-Intersection Model for Representing Detailed Topological Relations between Spatial Objects in Two-Dimensional Space. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 37.	2.9	15
67	Calibration and analysis of the uncertainty in downscaling global land use and land cover projections from GCAM using Demeter (v1.0.0). <i>Geoscientific Model Development</i> , 2019, 12, 1753-1764.	3.6	15
68	A loosely integrated data configuration strategy for web-based participatory modeling. <i>GIScience and Remote Sensing</i> , 2019, 56, 670-698.	5.9	14
69	Adjusting solar-induced fluorescence to nadir-viewing provides a better proxy for GPP. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022, 186, 157-169.	11.1	14
70	Developing a data model for understanding geographical analysis models with consideration of their evolution and application processes. <i>Transactions in GIS</i> , 2018, 22, 1498-1521.	2.3	13
71	Current status and future directions of geoportals. <i>International Journal of Digital Earth</i> , 2020, 13, 1093-1114.	3.9	13
72	Analysis of the spatiotemporal riding modes of dockless shared bicycles based on tensor decomposition. <i>International Journal of Geographical Information Science</i> , 2020, 34, 2225-2242.	4.8	13

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73	Applying SBM-GPA Model to Explore Urban Land Use Efficiency Considering Ecological Development in China. <i>Land</i> , 2021, 10, 912.	2.9	13
74	The Diurnal Dynamics of Gross Primary Productivity Using Observations From the Advanced Baseline Imager on the Geostationary Operational Environmental Satellite Series at an Oak Savanna Ecosystem. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	13
75	Classification of topological relations between spatial objects in two-dimensional space within the dimensionally extended 9-intersection model. <i>Transactions in GIS</i> , 2018, 22, 514-541.	2.3	12
76	Research on the Construction Method of the Service-Oriented Web-SWMM System. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 268.	2.9	12
77	A Framework for Sharing and Integrating Remote Sensing and GIS Models Based on Web Service. <i>Scientific World Journal</i> , The, 2014, 2014, 1-13.	2.1	11
78	Exploring the Use of DSCOVR/EPIC Satellite Observations to Monitor Vegetation Phenology. <i>Remote Sensing</i> , 2020, 12, 2384.	4.0	11
79	Spatial Distribution of Global Cultivated Land and Its Variation between 2000 and 2010, from Both Agro-Ecological and Geopolitical Perspectives. <i>Sustainability</i> , 2019, 11, 1242.	3.2	10
80	Regionalization Analysis and Mapping for the Source and Sink of Tourist Flows. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 314.	2.9	9
81	A grey wolf optimizer-cellular automata integrated model for urban growth simulation and optimization. <i>Transactions in GIS</i> , 2019, 23, 672-687.	2.3	9
82	Attributing differences of solar-induced chlorophyll fluorescence (SIF)-gross primary production (GPP) relationships between two C4 crops: corn and miscanthus. <i>Agricultural and Forest Meteorology</i> , 2022, 323, 109046.	4.8	9
83	A Web-Based Integrated Modeling and Simulation Method for Forest Growth Research. <i>Earth and Space Science</i> , 2019, 6, 2142-2159.	2.6	8
84	Field evidence reveals conservative water use of poplar saplings under high aerosol conditions. <i>Journal of Ecology</i> , 2021, 109, 2190-2202.	4.0	8
85	An automatic extraction method for individual tree crowns based on self-adaptive mutual information and tile computing. <i>International Journal of Digital Earth</i> , 2015, 8, 495-516.	3.9	7
86	A modelling system with adjustable emission inventories for cross-boundary air quality management in Hong Kong and the Pearl River Delta, China. <i>Computers, Environment and Urban Systems</i> , 2017, 62, 222-232.	7.1	7
87	Morphological Features-Based Descriptive Index System for Lunar Impact Craters. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 5.	2.9	7
88	Analysis of the Cycling Flow Between Origin and Destination for Dockless Shared Bicycles Based on Singular Value Decomposition. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 573.	2.9	7
89	Topological relations between spherical spatial regions with holes. <i>International Journal of Digital Earth</i> , 2020, 13, 429-456.	3.9	7
90	A Spatial Lattice Model Applied for Meteorological Visualization and Analysis. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 77.	2.9	6

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91	A progressive transmission strategy for GIS vector data under the precondition of pixel losslessness. Arabian Journal of Geosciences, 2015, 8, 3461-3475.	1.3	5
92	A distance-based topological relation model between spatial regions. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	5
93	A characteristic bitmap coding method for vector elements based on self-adaptive gridding. International Journal of Geographical Information Science, 2013, 27, 1939-1959.	4.8	4
94	An Approach to Transform Chinese Historical Books into Scenario-based Historical Maps. Cartographic Journal, 2013, 50, 49-65.	1.5	4
95	3D modelling strategy for weather radar data analysis. Environmental Earth Sciences, 2018, 77, 1.	2.7	4
96	GIS-based family tree information sharing and service. , 2010, , .		3
97	Topological relations between a directed line and a directed region. Transactions in GIS, 2020, 24, 526-548.	2.3	3
98	Monitoring Lightning Location Based on Deep Learning Combined with Multisource Spatial Data. Remote Sensing, 2022, 14, 2200.	4.0	3
99	Quantitative Estimation of the Climatic Effects of Carbon Transferred by International Trade. Scientific Reports, 2016, 6, 28046.	3.3	2
100	A Barotropic Tide Model for Global Ocean Based on Rotated Spherical Longitude-Latitude Grids. Water (Switzerland), 2021, 13, 2670.	2.7	2
101	Virtual Global: a new visualization system for virtual geographic environment. , 2008, , .		0