

# 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	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
2	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
3	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
4	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
5	Monitoring Lightning Location Based on Deep Learning Combined with Multisource Spatial Data. <i>Remote Sensing</i> , 2022, 14, 2200.	4.0	3
6	Optical vegetation indices for monitoring terrestrial ecosystems globally. <i>Nature Reviews Earth &amp; Environment</i> , 2022, 3, 477-493.	29.7	191
7	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
8	Quantifying leaf optical properties with spectral invariants theory. <i>Remote Sensing of Environment</i> , 2021, 253, 112131.	11.0	17
9	Potential of hotspot solar-induced chlorophyll fluorescence for better tracking terrestrial photosynthesis. <i>Global Change Biology</i> , 2021, 27, 2144-2158.	9.5	35
10	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
11	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
12	Intermediate Aerosol Loading Enhances Photosynthetic Activity of Croplands. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091893.	4.0	19
13	Applying SBM-GPA Model to Explore Urban Land Use Efficiency Considering Ecological Development in China. <i>Land</i> , 2021, 10, 912.	2.9	13
14	A Barotropic Tide Model for Global Ocean Based on Rotated Spherical Longitude-Latitude Grids. <i>Water (Switzerland)</i> , 2021, 13, 2670.	2.7	2
15	Estimating near-infrared reflectance of vegetation from hyperspectral data. <i>Remote Sensing of Environment</i> , 2021, 267, 112723.	11.0	24
16	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
17	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
18	Topological relations between spherical spatial regions with holes. <i>International Journal of Digital Earth</i> , 2020, 13, 429-456.	3.9	7

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19	Current status and future directions of geoportals. <i>International Journal of Digital Earth</i> , 2020, 13, 1093-1114.	3.9	13
20	Humans drive future water scarcity changes across all Shared Socioeconomic Pathways. <i>Environmental Research Letters</i> , 2020, 15, 014007.	5.2	50
21	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
22	Exploring the Use of DSCOVR/EPIC Satellite Observations to Monitor Vegetation Phenology. <i>Remote Sensing</i> , 2020, 12, 2384.	4.0	11
23	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
24	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
25	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
26	A radiative transfer model for solar induced fluorescence using spectral invariants theory. <i>Remote Sensing of Environment</i> , 2020, 240, 111678.	11.0	29
27	Topological relations between a directed line and a directed region. <i>Transactions in GIS</i> , 2020, 24, 526-548.	2.3	3
28	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
29	Radiance-based NIR <sub>v</sub> as a proxy for GPP of corn and soybean. <i>Environmental Research Letters</i> , 2020, 15, 034009.	5.2	63
30	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
31	A data sharing method in the open web environment: Data sharing in hydrology. <i>Journal of Hydrology</i> , 2020, 587, 124973.	5.4	22
32	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
33	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
34	CO2 emissions embodied in trade: Evidence for Hong Kong SAR. <i>Journal of Cleaner Production</i> , 2019, 239, 117918.	9.3	19
35	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
36	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

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37	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
38	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
39	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
40	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
41	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
42	Teamwork-oriented integrated modeling method for geo-problem solving. <i>Environmental Modelling and Software</i> , 2019, 119, 111-123.	4.5	34
43	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
44	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
45	A loosely integrated data configuration strategy for web-based participatory modeling. <i>GIScience and Remote Sensing</i> , 2019, 56, 670-698.	5.9	14
46	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
47	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
48	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
49	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
50	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
51	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
52	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
53	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
54	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

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55	Influence of Vegetation Growth on the Enhanced Seasonality of Atmospheric CO <sub>2</sub> . Global Biogeochemical Cycles, 2018, 32, 32-41.	4.9	29
56	Virtual geographic environments in socio-environmental modeling: a fancy distraction or a key to communication?. International Journal of Digital Earth, 2018, 11, 408-419.	3.9	25
57	Geographic scenario: a possible foundation for further development of virtual geographic environments. International Journal of Digital Earth, 2018, 11, 356-368.	3.9	51
58	A distance-based topological relation model between spatial regions. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	5
59	Developing a data model for understanding geographical analysis models with consideration of their evolution and application processes. Transactions in GIS, 2018, 22, 1498-1521.	2.3	13
60	3D modelling strategy for weather radar data analysis. Environmental Earth Sciences, 2018, 77, 1.	2.7	4
61	A Study on Data Processing Services for the Operation of Geo-analysis Models in the Open Web Environment. Earth and Space Science, 2018, 5, 844-862.	2.6	29
62	Classification of topological relations between spatial objects in two-dimensional space within the dimensionally extended 9-intersection model. Transactions in GIS, 2018, 22, 514-541.	2.3	12
63	Morphological Features-Based Descriptive Index System for Lunar Impact Craters. ISPRS International Journal of Geo-Information, 2018, 7, 5.	2.9	7
64	Field evidences for the positive effects of aerosols on tree growth. Global Change Biology, 2018, 24, 4983-4992.	9.5	64
65	Demeter – A Land Use and Land Cover Change Disaggregation Model. Journal of Open Research Software, 2018, 6, 15.	5.9	21
66	Enhanced water use efficiency in global terrestrial ecosystems under increasing aerosol loadings. Agricultural and Forest Meteorology, 2017, 237-238, 39-49.	4.8	50
67	The phenology of leaf quality and its within-canopy variation is essential for accurate modeling of photosynthesis in tropical evergreen forests. Global Change Biology, 2017, 23, 4814-4827.	9.5	33
68	Discovering spatial and temporal patterns from taxi-based Floating Car Data: a case study from Nanjing. GIScience and Remote Sensing, 2017, 54, 617-638.	5.9	41
69	A modelling system with adjustable emission inventories for cross-boundary air quality management in Hong Kong and the Pearl River Delta, China. Computers, Environment and Urban Systems, 2017, 62, 222-232.	7.1	7
70	Regional contribution to variability and trends of global gross primary productivity. Environmental Research Letters, 2017, 12, 105005.	5.2	65
71	Chinese progress in geomorphometry. Journal of Chinese Geography, 2017, 27, 1389-1412.	3.9	44
72	Boundary Detection of Dispersal Impact Craters Based on Morphological Characteristics Using Lunar Digital Elevation Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 5632-5646.	4.9	19

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73	A Spatial Lattice Model Applied for Meteorological Visualization and Analysis. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 77.	2.9	6
74	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
75	Quantitative Estimation of the Climatic Effects of Carbon Transferred by International Trade. <i>Scientific Reports</i> , 2016, 6, 28046.	3.3	2
76	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
77	What's going on about geo-process modeling in virtual geographic environments (VGEs). <i>Ecological Modelling</i> , 2016, 319, 147-154.	2.5	31
78	Virtual Environments Begin to Embrace Process-based Geographic Analysis. <i>Transactions in GIS</i> , 2015, 19, 493-498.	2.3	56
79	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
80	Developing dynamic virtual geographic environments (VGEs) for geographic research. <i>Environmental Earth Sciences</i> , 2015, 74, 6975-6980.	2.7	43
81	Managing and sharing geographic knowledge in virtual geographic environments (VGEs). <i>Annals of GIS</i> , 2015, 21, 261-263.	3.1	28
82	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
83	An object-oriented data model built for blind navigation in outdoor space. <i>Applied Geography</i> , 2015, 60, 84-94.	3.7	20
84	A data description model for reusing, sharing and integrating geo-analysis models. <i>Environmental Earth Sciences</i> , 2015, 74, 7081-7099.	2.7	37
85	A virtual geographic environment system for multiscale air quality analysis and decision making: A case study of SO <sub>2</sub> concentration simulation. <i>Applied Geography</i> , 2015, 63, 326-336.	3.7	26
86	A progressive transmission strategy for GIS vector data under the precondition of pixel losslessness. <i>Arabian Journal of Geosciences</i> , 2015, 8, 3461-3475.	1.3	5
87	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
88	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
89	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
90	Modeling urban vertical growth using cellular automata—Guangzhou as a case study. <i>Applied Geography</i> , 2014, 53, 172-186.	3.7	74

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91	Aerosol effects on global land surface energy fluxes during 2003â€“2010. <i>Geophysical Research Letters</i> , 2014, 41, 7875-7881.	4.0	28
92	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
93	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
94	Construction of a virtual lunar environment platform. <i>International Journal of Digital Earth</i> , 2013, 6, 469-482.	3.9	24
95	Virtual Geographic Environments (VGEs): A New Generation of Geographic Analysis Tool. <i>Earth-Science Reviews</i> , 2013, 126, 74-84.	9.1	176
96	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
97	A characteristic bitmap coding method for vector elements based on self-adaptive gridding. <i>International Journal of Geographical Information Science</i> , 2013, 27, 1939-1959.	4.8	4
98	An Approach to Transform Chinese Historical Books into Scenario-based Historical Maps. <i>Cartographic Journal</i> , 2013, 50, 49-65.	1.5	4
99	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
100	GIS-based family tree information sharing and service. , 2010, , .		3
101	Virtual Global: a new visualization system for virtual geographic environment. , 2008, , .		0