

# Min Chen

## List of Publications by Year in descending order

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134  
papers

3,151  
citations

147726

31  
h-index

223716

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137  
all docs

137  
docs citations

137  
times ranked

2344  
citing authors

#	ARTICLE	IF	CITATIONS
1	An online participatory system for SWMM-based flood modeling and simulation. <i>Environmental Science and Pollution Research</i> , 2022, 29, 7322-7343.	2.7	14
2	The effects of different travel modes and travel destinations on COVID-19 transmission in global cities. <i>Science Bulletin</i> , 2022, 67, 588-592.	4.3	21
3	Pathway to encapsulate the surface water quality model and its applications as cloud computing services and integration with EDSS for managing urban water environments. <i>Environmental Modelling and Software</i> , 2022, 148, 105280.	1.9	5
4	An economically feasible optimization of photovoltaic provision using real electricity demand: A case study in New York city. <i>Sustainable Cities and Society</i> , 2022, 78, 103614.	5.1	19
5	Using street view images to identify road noise barriers with ensemble classification model and geospatial analysis. <i>Sustainable Cities and Society</i> , 2022, 78, 103598.	5.1	16
6	A quantitative method for the similarity assessment of typhoon tracks. <i>Natural Hazards</i> , 2022, 112, 587-602.	1.6	3
7	Deep Roof Refiner: A detail-oriented deep learning network for refined delineation of roof structure lines using satellite imagery. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2022, 107, 102680.	1.4	7
8	Multi-Scenario Simulation of Land Use for Sustainable Development Goals. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 2119-2127.	2.3	7
9	Vectorized rooftop area data for 90 cities in China. <i>Scientific Data</i> , 2022, 9, 66.	2.4	35
10	Cascaded Residual Attention Enhanced Road Extraction from Remote Sensing Images. <i>ISPRS International Journal of Geo-Information</i> , 2022, 11, 9.	1.4	25
11	An Efficient Plane-Segmentation Method for Indoor Point Clouds Based on Countability of Saliency Directions. <i>ISPRS International Journal of Geo-Information</i> , 2022, 11, 247.	1.4	0
12	Monitoring Lightning Location Based on Deep Learning Combined with Multisource Spatial Data. <i>Remote Sensing</i> , 2022, 14, 2200.	1.8	3
13	A topological framework for real-time 3D weather radar data processing. <i>International Journal of Digital Earth</i> , 2022, 15, 813-831.	1.6	1
14	Virtual geographic environment construction based on ubiquitous geographic information. <i>Transactions in GIS</i> , 2022, 26, 1143-1146.	1.0	0
15	Customizable process design for collaborative geographic analysis. <i>GIScience and Remote Sensing</i> , 2022, 59, 914-935.	2.4	11
16	Web-based real-time visualization of large-scale weather radar data using 3D tiles. <i>Transactions in GIS</i> , 2021, 25, 25-43.	1.0	9
17	Socio-technical scales in socio-environmental modeling: Managing a system-of-systems modeling approach. <i>Environmental Modelling and Software</i> , 2021, 135, 104885.	1.9	38
18	PM2.5-bound heavy metals from the major cities in China: Spatiotemporal distribution, fuzzy exposure assessment and health risk management. <i>Journal of Cleaner Production</i> , 2021, 286, 124967.	4.6	66

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19	Assessment of solar photovoltaic potentials on urban noise barriers using street-view imagery. <i>Renewable Energy</i> , 2021, 168, 181-194.	4.3	33
20	Evaluation of ghost cities based on spatial clustering: a case study of Chongqing, China. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	1
21	Joint Learning of Contour and Structure for Boundary-Preserved Building Extraction. <i>Remote Sensing</i> , 2021, 13, 1049.	1.8	33
22	Urban Fine-Grained Spatial Structure Detection Based on a New Traffic Flow Interaction Analysis Framework. <i>ISPRS International Journal of Geo-Information</i> , 2021, 10, 227.	1.4	8
23	Geographic modeling and simulation systems for geographic research in the new era: Some thoughts on their development and construction. <i>Science China Earth Sciences</i> , 2021, 64, 1207-1223.	2.3	26
24	A long short-term memory-fully connected (LSTM-FC) neural network for predicting the incidence of bronchopneumonia in children. <i>Environmental Science and Pollution Research</i> , 2021, 28, 56892-56905.	2.7	11
25	A framework on task configuration and execution for distributed geographical simulation. <i>International Journal of Digital Earth</i> , 2021, 14, 1103-1125.	1.6	6
26	Applying SBM-GPA Model to Explore Urban Land Use Efficiency Considering Ecological Development in China. <i>Land</i> , 2021, 10, 912.	1.2	13
27	Lightning Strike Location Identification Based on 3D Weather Radar Data. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	7
28	A Barotropic Tide Model for Global Ocean Based on Rotated Spherical Longitude-Latitude Grids. <i>Water (Switzerland)</i> , 2021, 13, 2670.	1.2	2
29	A city-scale estimation of rooftop solar photovoltaic potential based on deep learning. <i>Applied Energy</i> , 2021, 298, 117132.	5.1	61
30	Interoperability engine design for model sharing and reuse among OpenMI, BMI and OpenGMS-IS model standards. <i>Environmental Modelling and Software</i> , 2021, 144, 105164.	1.9	10
31	A hybrid vector-raster approach to drainage network construction in agricultural watersheds with rice terraces and ponds. <i>Journal of Hydrology</i> , 2021, 601, 126585.	2.3	4
32	A Web-based geo-simulation approach integrating knowledge graph and model-services. <i>Environmental Modelling and Software</i> , 2021, 144, 105160.	1.9	10
33	A construction method of visual conceptual scenario for hydrological conceptual modeling. <i>Environmental Modelling and Software</i> , 2021, 145, 105190.	1.9	6
34	Activity-based process construction for participatory geo-analysis. <i>GIScience and Remote Sensing</i> , 2021, 58, 180-198.	2.4	12
35	An optimal selection method for debris flow scene symbols considering public cognition differences. <i>International Journal of Disaster Risk Reduction</i> , 2021, 68, 102698.	1.8	5
36	A 1â€‰km global cropland dataset from 10â€‰000â€‰BCE to 2100â€‰CE. <i>Earth System Science Data</i> , 2021, 13, 5403-5421.	1.3	54

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37	Topological relations between spherical spatial regions with holes. <i>International Journal of Digital Earth</i> , 2020, 13, 429-456.	1.6	7
38	Current status and future directions of geoportals. <i>International Journal of Digital Earth</i> , 2020, 13, 1093-1114.	1.6	13
39	Topological relations between directed line segments in the cyclic space. <i>Journal of Geographical Systems</i> , 2020, 22, 497-518.	1.9	3
40	Position paper: Sensitivity analysis of spatially distributed environmental models- a pragmatic framework for the exploration of uncertainty sources. <i>Environmental Modelling and Software</i> , 2020, 134, 104857.	1.9	35
41	Service-oriented interface design for open distributed environmental simulations. <i>Environmental Research</i> , 2020, 191, 110225.	3.7	15
42	Call for transparency of COVID-19 models. <i>Science</i> , 2020, 368, 482-483.	6.0	85
43	Efficient Video Fire Detection Exploiting Motion-Flicker-Based Dynamic Features and Deep Static Features. <i>IEEE Access</i> , 2020, 8, 81904-81917.	2.6	38
44	Participatory intercomparison strategy for terrestrial carbon cycle models based on a service-oriented architecture. <i>Future Generation Computer Systems</i> , 2020, 112, 449-466.	4.9	18
45	Anti-complement factor H autoantibodies may be protective in lupus nephritis. <i>Clinica Chimica Acta</i> , 2020, 508, 1-8.	0.5	8
46	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.	2.2	13
47	Tropical cyclone risk assessment for China at the provincial level based on clustering analysis. <i>Geomatics, Natural Hazards and Risk</i> , 2020, 11, 869-886.	2.0	9
48	Position paper: Open web-distributed integrated geographic modelling and simulation to enable broader participation and applications. <i>Earth-Science Reviews</i> , 2020, 207, 103223.	4.0	87
49	Topological relations between a directed line and a directed region. <i>Transactions in GIS</i> , 2020, 24, 526-548.	1.0	3
50	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.	1.9	34
51	PM2.5-Related Health Economic Benefits Evaluation Based on Air Improvement Action Plan in Wuhan City, Middle China. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 620.	1.2	20
52	A data sharing method in the open web environment: Data sharing in hydrology. <i>Journal of Hydrology</i> , 2020, 587, 124973.	2.3	22
53	Geospatial Information Visualization and Extended Reality Displays. , 2020, , 229-277.		19
54	The China Family Tree Geographic Information System. <i>Human Dynamics in Smart Cities</i> , 2020, , 13-37.	0.2	1

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55	Subpixel-Level Edge Feature Matching for SAR and Optical Images Based on Zernike Moments. , 2020, , .		2
56	CO2 emissions embodied in trade: Evidence for Hong Kong SAR. Journal of Cleaner Production, 2019, 239, 117918.	4.6	19
57	Spatial Sequential Modeling and Predication of Global Land Use and Land Cover Changes by Integrating a Global Change Assessment Model and Cellular Automata. Earth's Future, 2019, 7, 1102-1116.	2.4	36
58	Regionalization Analysis and Mapping for the Source and Sink of Tourist Flows. ISPRS International Journal of Geo-Information, 2019, 8, 314.	1.4	9
59	Effects of Free-Floating Shared Bicycles on Urban Public Transportation. ISPRS International Journal of Geo-Information, 2019, 8, 323.	1.4	12
60	Spatial Distribution of Global Cultivated Land and Its Variation between 2000 and 2010, from Both Agro-Ecological and Geopolitical Perspectives. Sustainability, 2019, 11, 1242.	1.6	10
61	A Web-Based Integrated Modeling and Simulation Method for Forest Growth Research. Earth and Space Science, 2019, 6, 2142-2159.	1.1	8
62	Building Extraction from UAV Images Jointly Using 6D-SLIC and Multiscale Siamese Convolutional Networks. Remote Sensing, 2019, 11, 1040.	1.8	20
63	Teamwork-oriented integrated modeling method for geo-problem solving. Environmental Modelling and Software, 2019, 119, 111-123.	1.9	34
64	Research on the Construction Method of the Service-Oriented Web-SWMM System. ISPRS International Journal of Geo-Information, 2019, 8, 268.	1.4	12
65	A systematic review with meta-analysis: Is ribavirin necessary in sofosbuvir-based direct-acting antiviral therapies for patients with HCV recurrence after liver transplantation?. International Journal of Infectious Diseases, 2019, 83, 56-63.	1.5	4
66	Learning to match multitemporal optical satellite images using multi-support-patches Siamese networks. Remote Sensing Letters, 2019, 10, 516-525.	0.6	10
67	Analysis of the Cycling Flow Between Origin and Destination for Dockless Shared Bicycles Based on Singular Value Decomposition. ISPRS International Journal of Geo-Information, 2019, 8, 573.	1.4	7
68	A loosely integrated data configuration strategy for web-based participatory modeling. GIScience and Remote Sensing, 2019, 56, 670-698.	2.4	14
69	A grey wolf optimizer-based cellular automata integrated model for urban growth simulation and optimization. Transactions in GIS, 2019, 23, 672-687.	1.0	9
70	Design and development of a service-oriented wrapper system for sharing and reusing distributed geoanalysis models on the web. Environmental Modelling and Software, 2019, 111, 498-509.	1.9	44
71	Reflections and speculations on the progress in Geographic Information Systems (GIS): a geographic perspective. International Journal of Geographical Information Science, 2019, 33, 346-367.	2.2	149
72	A network distance and graph-partitioning-based clustering method for improving the accuracy of urban hotspot detection. Geocarto International, 2019, 34, 293-315.	1.7	17

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73	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.	1.2	57
74	Virtual geographic environments (VGEs): originating from or beyond virtual reality (VR)?. <i>International Journal of Digital Earth</i> , 2018, 11, 329-333.	1.6	54
75	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.	2.7	30
76	Automatic detection of lunar craters based on DEM data with the terrain analysis method. <i>Planetary and Space Science</i> , 2018, 160, 1-11.	0.9	20
77	Opportunistic Market-Driven Regional Shifts of Cropping Practices Reduce Food Production Capacity of China. <i>Earth's Future</i> , 2018, 6, 634-642.	2.4	16
78	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.	1.6	25
79	Geographic scenario: a possible foundation for further development of virtual geographic environments. <i>International Journal of Digital Earth</i> , 2018, 11, 356-368.	1.6	51
80	A distance-based topological relation model between spatial regions. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	5
81	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.	1.0	13
82	3D modelling strategy for weather radar data analysis. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	4
83	A Study on Data Processing Services for the Operation of Geo-Analysis Models in the Open Web Environment. <i>Earth and Space Science</i> , 2018, 5, 844-862.	1.1	29
84	The frequency of ANCA-associated vasculitis in a national database of hospitalized patients in China. <i>Arthritis Research and Therapy</i> , 2018, 20, 226.	1.6	41
85	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.	1.0	12
86	Morphological Features-Based Descriptive Index System for Lunar Impact Craters. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 5.	1.4	7
87	Matching of Remote Sensing Images with Complex Background Variations via Siamese Convolutional Neural Network. <i>Remote Sensing</i> , 2018, 10, 355.	1.8	62
88	A model-service deployment strategy for collaboratively sharing geo-analysis models in an open web environment. <i>International Journal of Digital Earth</i> , 2017, 10, 405-425.	1.6	36
89	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.	2.4	41
90	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.	3.3	7

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91	Chinese progress in geomorphometry. <i>Journal of Chinese Geography</i> , 2017, 27, 1389-1412.	1.5	44
92	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.	2.3	19
93	A Spatial Lattice Model Applied for Meteorological Visualization and Analysis. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 77.	1.4	6
94	Robust Feature Matching Method for SAR and Optical Images by Using Gaussian-Gamma-Shaped Bi-Windows-Based Descriptor and Geometric Constraint. <i>Remote Sensing</i> , 2017, 9, 882.	1.8	30
95	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.	1.4	15
96	Antibodies against linear epitopes on Goodpasture autoantigen in patients with anti-neutrophil cytoplasmic antibody-associated vasculitis. <i>Clinical Rheumatology</i> , 2017, 36, 2087-2094.	1.0	3
97	Enhanced RGB-D Mapping Method for Detailed 3D Indoor and Outdoor Modeling. <i>Sensors</i> , 2016, 16, 1589.	2.1	28
98	A Study on Effect of Seepage Direction on Permeability Stress Test. <i>Arabian Journal for Science and Engineering</i> , 2016, 41, 4583-4596.	1.1	22
99	Quantitative Estimation of the Climatic Effects of Carbon Transferred by International Trade. <i>Scientific Reports</i> , 2016, 6, 28046.	1.6	2
100	Autoantibodies against Linear Epitopes of Myeloperoxidase in Anti-“Glomerular Basement Membrane Disease. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2016, 11, 568-575.	2.2	18
101	Service-oriented model-encapsulation strategy for sharing and integrating heterogeneous geo-analysis models in an open web environment. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016, 114, 258-273.	4.9	51
102	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.	2.2	15
103	What's going on about geo-process modeling in virtual geographic environments (VGEs). <i>Ecological Modelling</i> , 2016, 319, 147-154.	1.2	31
104	Virtual Environments Begin to Embrace Process-based Geographic Analysis. <i>Transactions in GIS</i> , 2015, 19, 493-498.	1.0	56
105	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.	1.8	21
106	Feature matching for illumination variation images. <i>Journal of Electronic Imaging</i> , 2015, 24, 033011.	0.5	10
107	Developing dynamic virtual geographic environments (VGEs) for geographic research. <i>Environmental Earth Sciences</i> , 2015, 74, 6975-6980.	1.3	43
108	Managing and sharing geographic knowledge in virtual geographic environments (VGEs). <i>Annals of GIS</i> , 2015, 21, 261-263.	1.4	28

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109	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.	1.6	7
110	An object-oriented data model built for blind navigation in outdoor space. <i>Applied Geography</i> , 2015, 60, 84-94.	1.7	20
111	A data description model for reusing, sharing and integrating geo-analysis models. <i>Environmental Earth Sciences</i> , 2015, 74, 7081-7099.	1.3	37
112	A procedural modelling method for virtual high-speed railway scenes based on model combination and spatial semantic constraint. <i>International Journal of Geographical Information Science</i> , 2015, 29, 1059-1080.	2.2	13
113	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.	1.7	26
114	A progressive transmission strategy for GIS vector data under the precondition of pixel losslessness. <i>Arabian Journal of Geosciences</i> , 2015, 8, 3461-3475.	0.6	5
115	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.	0.8	11
116	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.	0.6	22
117	Modeling urban vertical growth using cellular automata—Guangzhou as a case study. <i>Applied Geography</i> , 2014, 53, 172-186.	1.7	74
118	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.	1.7	18
119	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
120	Construction of a virtual lunar environment platform. <i>International Journal of Digital Earth</i> , 2013, 6, 469-482.	1.6	24
121	Virtual Geographic Environments (VGEs): A New Generation of Geographic Analysis Tool. <i>Earth-Science Reviews</i> , 2013, 126, 74-84.	4.0	176
122	Prototyping an open environment for sharing geographical analysis models on cloud computing platform. <i>International Journal of Digital Earth</i> , 2013, 6, 356-382.	1.6	52
123	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.	2.2	4
124	An Approach to Transform Chinese Historical Books into Scenario-based Historical Maps. <i>Cartographic Journal</i> , 2013, 50, 49-65.	0.8	4
125	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
126	Sino-VirtualMoon: A 3D web platform using Changâ€™E-1 data for collaborative research. <i>Planetary and Space Science</i> , 2012, 65, 130-136.	0.9	29



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127	A visualization method for geographic conceptual modelling. <i>Annals of GIS</i> , 2011, 17, 15-29.	1.4	15
128	A spatial-temporal framework for historical and cultural research on China. <i>Applied Geography</i> , 2011, 31, 1059-1074.	1.7	20
129	A virtual learning environment of the Chinese University of Hong Kong. <i>International Journal of Digital Earth</i> , 2011, 4, 171-182.	1.6	12
130	GIS-based family tree information sharing and service. , 2010, , .		3
131	Geographic Problem-Solving Oriented Data Representation Model. <i>Geo-information Science</i> , 2010, 11, 333-341.	0.1	4
132	Studying on Distributed Sharing of Geographical Analysis Model. , 2009, , .		1
133	A container-based approach for sharing environmental models as web services. <i>International Journal of Digital Earth</i> , 0, , 1-20.	1.6	8
134	A process-driven geo-analysis engine to support online collaborative geographic experiments. <i>Transactions in GIS</i> , 0, , .	1.0	1