

Min Chen

List of Publications by Year in descending order

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134
papers

3,151
citations

147726

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137
all docs

137
docs citations

137
times ranked

2344
citing authors

#	ARTICLE	IF	CITATIONS
1	Virtual Geographic Environments (VGEs): A New Generation of Geographic Analysis Tool. <i>Earth-Science Reviews</i> , 2013, 126, 74-84.	4.0	176
2	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.	2.2	149
3	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
4	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
5	Call for transparency of COVID-19 models. <i>Science</i> , 2020, 368, 482-483.	6.0	85
6	Modeling urban vertical growth using cellular automata—Guangzhou as a case study. <i>Applied Geography</i> , 2014, 53, 172-186.	1.7	74
7	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
8	Matching of Remote Sensing Images with Complex Background Variations via Siamese Convolutional Neural Network. <i>Remote Sensing</i> , 2018, 10, 355.	1.8	62
9	A city-scale estimation of rooftop solar photovoltaic potential based on deep learning. <i>Applied Energy</i> , 2021, 298, 117132.	5.1	61
10	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
11	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
12	Virtual Environments Begin to Embrace Process-based Geographic Analysis. <i>Transactions in GIS</i> , 2015, 19, 493-498.	1.0	56
13	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
14	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
15	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
16	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
17	Chinese progress in geomorphometry. <i>Journal of Chinese Geography</i> , 2017, 27, 1389-1412.	1.5	44
18	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.	1.9	44

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19	Developing dynamic virtual geographic environments (VGEs) for geographic research. <i>Environmental Earth Sciences</i> , 2015, 74, 6975-6980.	1.3	43
20	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
21	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
22	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
23	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
24	A data description model for reusing, sharing and integrating geo-analysis models. <i>Environmental Earth Sciences</i> , 2015, 74, 7081-7099.	1.3	37
25	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
26	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.	2.4	36
27	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
28	Vectorized rooftop area data for 90 cities in China. <i>Scientific Data</i> , 2022, 9, 66.	2.4	35
29	Teamwork-oriented integrated modeling method for geo-problem solving. <i>Environmental Modelling and Software</i> , 2019, 119, 111-123.	1.9	34
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.	1.9	34
31	Assessment of solar photovoltaic potentials on urban noise barriers using street-view imagery. <i>Renewable Energy</i> , 2021, 168, 181-194.	4.3	33
32	Joint Learning of Contour and Structure for Boundary-Preserved Building Extraction. <i>Remote Sensing</i> , 2021, 13, 1049.	1.8	33
33	What's going on about geo-process modeling in virtual geographic environments (VGEs). <i>Ecological Modelling</i> , 2016, 319, 147-154.	1.2	31
34	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
35	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
36	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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37	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
38	Managing and sharing geographic knowledge in virtual geographic environments (VGEs). <i>Annals of GIS</i> , 2015, 21, 261-263.	1.4	28
39	Enhanced RGB-D Mapping Method for Detailed 3D Indoor and Outdoor Modeling. <i>Sensors</i> , 2016, 16, 1589.	2.1	28
40	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.	1.7	26
41	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
42	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
43	Cascaded Residual Attention Enhanced Road Extraction from Remote Sensing Images. <i>ISPRS International Journal of Geo-Information</i> , 2022, 11, 9.	1.4	25
44	Construction of a virtual lunar environment platform. <i>International Journal of Digital Earth</i> , 2013, 6, 469-482.	1.6	24
45	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
46	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
47	A data sharing method in the open web environment: Data sharing in hydrology. <i>Journal of Hydrology</i> , 2020, 587, 124973.	2.3	22
48	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
49	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
50	A spatial-temporal framework for historical and cultural research on China. <i>Applied Geography</i> , 2011, 31, 1059-1074.	1.7	20
51	An object-oriented data model built for blind navigation in outdoor space. <i>Applied Geography</i> , 2015, 60, 84-94.	1.7	20
52	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
53	Building Extraction from UAV Images Jointly Using 6D-SLIC and Multiscale Siamese Convolutional Networks. <i>Remote Sensing</i> , 2019, 11, 1040.	1.8	20
54	PM _{2.5} -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

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55	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.	2.3	19
56	CO2 emissions embodied in trade: Evidence for Hong Kong SAR. Journal of Cleaner Production, 2019, 239, 117918.	4.6	19
57	Geospatial Information Visualization and Extended Reality Displays. , 2020, , 229-277.		19
58	An economically feasible optimization of photovoltaic provision using real electricity demand: A case study in New York city. Sustainable Cities and Society, 2022, 78, 103614.	5.1	19
59	Scale compatibility analysis in geographic process research: A case study of a meteorological simulation in Hong Kong. Applied Geography, 2014, 52, 135-143.	1.7	18
60	Autoantibodies against Linear Epitopes of Myeloperoxidase in Anti-“Glomerular Basement Membrane Disease. Clinical Journal of the American Society of Nephrology: CJASN, 2016, 11, 568-575.	2.2	18
61	Participatory intercomparison strategy for terrestrial carbon cycle models based on a service-oriented architecture. Future Generation Computer Systems, 2020, 112, 449-466.	4.9	18
62	A 1‰km global cropland dataset from 10‰000‰BCE to 2100‰CE. Earth System Science Data, 2021, 13, 5403-5421.	1.3	18
63	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
64	Opportunistic Market-Driven Regional Shifts of Cropping Practices Reduce Food Production Capacity of China. Earth's Future, 2018, 6, 634-642.	2.4	16
65	Using street view images to identify road noise barriers with ensemble classification model and geospatial analysis. Sustainable Cities and Society, 2022, 78, 103598.	5.1	16
66	A visualization method for geographic conceptual modelling. Annals of GIS, 2011, 17, 15-29.	1.4	15
67	A function-based linear map symbol building and rendering method using shader language. International Journal of Geographical Information Science, 2016, 30, 143-167.	2.2	15
68	A 27-Intersection Model for Representing Detailed Topological Relations between Spatial Objects in Two-Dimensional Space. ISPRS International Journal of Geo-Information, 2017, 6, 37.	1.4	15
69	Service-oriented interface design for open distributed environmental simulations. Environmental Research, 2020, 191, 110225.	3.7	15
70	A loosely integrated data configuration strategy for web-based participatory modeling. GIScience and Remote Sensing, 2019, 56, 670-698.	2.4	14
71	An online participatory system for SWMM-based flood modeling and simulation. Environmental Science and Pollution Research, 2022, 29, 7322-7343.	2.7	14
72	A procedural modelling method for virtual high-speed railway scenes based on model combination and spatial semantic constraint. International Journal of Geographical Information Science, 2015, 29, 1059-1080.	2.2	13

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73	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
74	Current status and future directions of geoportals. <i>International Journal of Digital Earth</i> , 2020, 13, 1093-1114.	1.6	13
75	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
76	Applying SBM-GPA Model to Explore Urban Land Use Efficiency Considering Ecological Development in China. <i>Land</i> , 2021, 10, 912.	1.2	13
77	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
78	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
79	Effects of Free-Floating Shared Bicycles on Urban Public Transportation. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 323.	1.4	12
80	Research on the Construction Method of the Service-Oriented Web-SWMM System. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 268.	1.4	12
81	Activity-based process construction for participatory geo-analysis. <i>GIScience and Remote Sensing</i> , 2021, 58, 180-198.	2.4	12
82	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
83	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
84	Customizable process design for collaborative geographic analysis. <i>GIScience and Remote Sensing</i> , 2022, 59, 914-935.	2.4	11
85	Feature matching for illumination variation images. <i>Journal of Electronic Imaging</i> , 2015, 24, 033011.	0.5	10
86	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.	1.6	10
87	Learning to match multitemporal optical satellite images using multi-support-patches Siamese networks. <i>Remote Sensing Letters</i> , 2019, 10, 516-525.	0.6	10
88	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
89	A Web-based geo-simulation approach integrating knowledge graph and model-services. <i>Environmental Modelling and Software</i> , 2021, 144, 105160.	1.9	10
90	Regionalization Analysis and Mapping for the Source and Sink of Tourist Flows. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 314.	1.4	9

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91	A grey wolf optimizerâ€“cellular automata integrated model for urban growth simulation and optimization. Transactions in GIS, 2019, 23, 672-687.	1.0	9
92	Tropical cyclone risk assessment for China at the provincial level based on clustering analysis. Geomatics, Natural Hazards and Risk, 2020, 11, 869-886.	2.0	9
93	Webâ€“based realâ€“time visualization of largeâ€“scale weather radar data using 3D tiles. Transactions in GIS, 2021, 25, 25-43.	1.0	9
94	A Webâ€“Based Integrated Modeling and Simulation Method for Forest Growth Research. Earth and Space Science, 2019, 6, 2142-2159.	1.1	8
95	Anti-complement factor H autoantibodies may be protective in lupus nephritis. Clinica Chimica Acta, 2020, 508, 1-8.	0.5	8
96	Urban Fine-Grained Spatial Structure Detection Based on a New Traffic Flow Interaction Analysis Framework. ISPRS International Journal of Geo-Information, 2021, 10, 227.	1.4	8
97	A container-based approach for sharing environmental models as web services. International Journal of Digital Earth, 0, , 1-20.	1.6	8
98	An automatic extraction method for individual tree crowns based on self-adaptive mutual information and tile computing. International Journal of Digital Earth, 2015, 8, 495-516.	1.6	7
99	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.	3.3	7
100	Morphological Features-Based Descriptive Index System for Lunar Impact Craters. ISPRS International Journal of Geo-Information, 2018, 7, 5.	1.4	7
101	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
102	Topological relations between spherical spatial regions with holes. International Journal of Digital Earth, 2020, 13, 429-456.	1.6	7
103	Lightning Strike Location Identification Based on 3D Weather Radar Data. Frontiers in Environmental Science, 2021, 9, .	1.5	7
104	Deep Roof Refiner: A detail-oriented deep learning network for refined delineation of roof structure lines using satellite imagery. International Journal of Applied Earth Observation and Geoinformation, 2022, 107, 102680.	1.4	7
105	Multi-Scenario Simulation of Land Use for Sustainable Development Goals. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 2119-2127.	2.3	7
106	A Spatial Lattice Model Applied for Meteorological Visualization and Analysis. ISPRS International Journal of Geo-Information, 2017, 6, 77.	1.4	6
107	A framework on task configuration and execution for distributed geographical simulation. International Journal of Digital Earth, 2021, 14, 1103-1125.	1.6	6
108	A construction method of visual conceptual scenario for hydrological conceptual modeling. Environmental Modelling and Software, 2021, 145, 105190.	1.9	6

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109	A progressive transmission strategy for GIS vector data under the precondition of pixel losslessness. Arabian Journal of Geosciences, 2015, 8, 3461-3475.	0.6	5
110	A distance-based topological relation model between spatial regions. Arabian Journal of Geosciences, 2018, 11, 1.	0.6	5
111	An optimal selection method for debris flow scene symbols considering public cognition differences. International Journal of Disaster Risk Reduction, 2021, 68, 102698.	1.8	5
112	Pathway to encapsulate the surface water quality model and its applications as cloud computing services and integration with EDSS for managing urban water environments. Environmental Modelling and Software, 2022, 148, 105280.	1.9	5
113	A characteristic bitmap coding method for vector elements based on self-adaptive gridding. International Journal of Geographical Information Science, 2013, 27, 1939-1959.	2.2	4
114	An Approach to Transform Chinese Historical Books into Scenario-based Historical Maps. Cartographic Journal, 2013, 50, 49-65.	0.8	4
115	3D modelling strategy for weather radar data analysis. Environmental Earth Sciences, 2018, 77, 1.	1.3	4
116	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
117	A hybrid vector-raster approach to drainage network construction in agricultural watersheds with rice terraces and ponds. Journal of Hydrology, 2021, 601, 126585.	2.3	4
118	Geographic Problem-Solving Oriented Data Representation Model. Geo-information Science, 2010, 11, 333-341.	0.1	4
119	GIS-based family tree information sharing and service. , 2010, , .		3
120	Topological relations between directed line segments in the cyclic space. Journal of Geographical Systems, 2020, 22, 497-518.	1.9	3
121	Topological relations between a directed line and a directed region. Transactions in GIS, 2020, 24, 526-548.	1.0	3
122	Antibodies against linear epitopes on Goodpasture autoantigen in patients with anti-neutrophil cytoplasmic antibody-associated vasculitis. Clinical Rheumatology, 2017, 36, 2087-2094.	1.0	3
123	A quantitative method for the similarity assessment of typhoon tracks. Natural Hazards, 2022, 112, 587-602.	1.6	3
124	Monitoring Lightning Location Based on Deep Learning Combined with Multisource Spatial Data. Remote Sensing, 2022, 14, 2200.	1.8	3
125	Quantitative Estimation of the Climatic Effects of Carbon Transferred by International Trade. Scientific Reports, 2016, 6, 28046.	1.6	2
126	A Barotropic Tide Model for Global Ocean Based on Rotated Spherical Longitude-Latitude Grids. Water (Switzerland), 2021, 13, 2670.	1.2	2

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127	Subpixel-Level Edge Feature Matching for SAR and Optical Images Based on Zernike Moments. , 2020, , .		2
128	Studying on Distributed Sharing of Geographical Analysis Model. , 2009, , .		1
129	Evaluation of ghost cities based on spatial clustering: a case study of Chongqing, China. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	1
130	The China Family Tree Geographic Information System. Human Dynamics in Smart Cities, 2020, , 13-37.	0.2	1
131	A topological framework for real-time 3D weather radar data processing. International Journal of Digital Earth, 2022, 15, 813-831.	1.6	1
132	A process-driven geo-analysis engine to support online collaborative geographic experiments. Transactions in GIS, 0, , .	1.0	1
133	An Efficient Plane-Segmentation Method for Indoor Point Clouds Based on Countability of Saliency Directions. ISPRS International Journal of Geo-Information, 2022, 11, 247.	1.4	0
134	Virtual geographic environment construction based on ubiquitous geographic information. Transactions in GIS, 2022, 26, 1143-1146.	1.0	0