Xun Shi

List of Publications by Year
in descending order

73 papers	2,738 citations	185998 28 h-index	189595 50 g-index
76 all docs	76 docs citations	76 times ranked	3367 citing authors

#	Article	IF	Citations
1	Geographic access to cancer care in the U.S.. Cancer, 2008, 112, 909-918.	2.0	304
2	Why does the temperature rise faster in the arid region of northwest China?. Journal of Geophysical Research, 2012, 117, .	3.3	132
3	Monitoring mangrove forest changes using remote sensing and GIS data with decision-tree learning. Wetlands, 2008, 28, 336-346.	0.7	115
4	A multi-type ant colony optimization (MACO) method for optimal land use allocation in large areas. International Journal of Geographical Information Science, 2012, 26, 1325-1343.	2.2	115
5	Temperature and precipitation changes in different environments in the arid region of northwest China. Theoretical and Applied Climatology, 2013, 112, 589-596.	1.3	111
6	Using spatial information technologies to select sites for biomass power plants: A case study in Guangdong Province, China. Biomass and Bioenergy, 2008, 32, 35-43.	2.9	109
7	Density estimation and adaptive bandwidths: A primer for public health practitioners. International Journal of Health Geographics, 2010, 9, 39.	1.2	108
8	Selection of bandwidth type and adjustment side in kernel density estimation over inhomogeneous backgrounds. International Journal of Geographical Information Science, 2010, 24, 643-660.	2.2	108
9	Simulating land-use dynamics under planning policies by integrating artificial immune systems with cellular automata. International Journal of Geographical Information Science, 2010, 24, 783-802.	2.2	102
10	Alcohol Retail Density and Demographic Predictors of Health Disparities: A Geographic Analysis. American Journal of Public Health, 2010, 100, 1967-1971.	1.5	89
11	Assessing spatial access to public and private hospitals in Sichuan, China: The influence of the private sector on the healthcare geography in China. Social Science and Medicine, 2016, 170, 35-45.	1.8	84
12	Influence of NCI Cancer Center Attendance on Mortality in Lung, Breast, Colorectal, and Prostate Cancer Patients. Medical Care Research and Review, 2009, 66, 542-560.	1.0	64
13	A Case€based Reasoning Approach to Fuzzy Soil Mapping. Soil Science Society of America Journal, 2004, 68, 885-894.	1.2	60
14	Spatial distribution of agricultural residue from rice for potential biofuel production in China. Biomass and Bioenergy, 2008, 32, 22-27.	2.9	58
15	Spatial Lifecourse Epidemiology Reporting Standards (ISLE-ReSt) statement. Health and Place, 2020, 61, 102243.	1.5	57
16	Computing travel time when the exact address is unknown: a comparison of point and polygon ZIP code approximation methods. International Journal of Health Geographics, 2009, 8, 23.	1.2	56
17	Spatial Access and Local Demand for Major Cancer Care Facilities in the United States. Annals of the American Association of Geographers, 2012, 102, 1125-1134.	3.0	56
18	Quantification of spatial gradation of slope positions. Geomorphology, 2009, 110, 152-161.	1.1	52

#	Article	IF	Citations
19	Is the closest facility the one actually used? An assessment of travel time estimation based on mammography facilities. International Journal of Health Geographics, 2016, 15, 8.	1.2	52
20	Race versus place of service in mortality among Medicare beneficiaries with cancer. Cancer, 2010, 116, 2698-2706.	2.0	50
21	Assessing Cyanobacterial Harmful Algal Blooms as Risk Factors for Amyotrophic Lateral Sclerosis. Neurotoxicity Research, 2018, 33, 199-212.	1.3	50
22	Determinants of NCI Cancer Center Attendance in Medicare Patients with Lung, Breast, Colorectal, or Prostate Cancer. Journal of General Internal Medicine, 2009, 24, 205-210.	1.3	49
23	The influence of travel time on breast cancer characteristics, receipt of primary therapy, and surveillance mammography. Breast Cancer Research and Treatment, 2011, 129, 269-275.	1.1	44
24	Travel Burden to Breast MRI and Utilization: Are Risk and Sociodemographics Related?. Journal of the American College of Radiology, 2016, 13, 611-619.	0.9	37
25	Exploring spatiotemporal nonstationary effects of climate factors on hand, foot, and mouth disease using Bayesian Spatiotemporally Varying Coefficients (STVC) model in Sichuan, China. Science of the Total Environment, 2019, 648, 550-560.	3.9	36
26	Coupling Simulation and Optimization to Solve Planning Problems in a Fast-Developing Area. Annals of the American Association of Geographers, 2011, 101, 1032-1048.	3.0	35
27	Geospatial association between adverse birth outcomes and arsenic in groundwater in New Hampshire, USA. Environmental Geochemistry and Health, 2015, 37, 333-351.	1.8	31
28	A Geocomputational Process for Characterizing the Spatial Pattern of Lung Cancer Incidence in New Hampshire. Annals of the American Association of Geographers, 2009, 99, 521-533.	3.0	30
29	A comparison of LiDAR-based DEMs and USGS-sourced DEMs in terrain analysis for knowledge-based digital soil mapping. Geoderma, 2012, 170, 217-226.	2.3	29
30	A Case-based Reasoning Approach to Fuzzy Soil Mapping. Soil Science Society of America Journal, 2004, 68, 885.	1.2	26
31	Mapping Global Fossil Fuel Combustion CO_2 Emissions at High Resolution by Integrating Nightlight, Population Density, and Traffic Network Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1674-1684.	2.3	25
32	Pesticides applied to crops and amyotrophic lateral sclerosis risk in the U.S. NeuroToxicology, 2021, 87, 128-135.	1.4	25
33	Influence of Place of Residence in Access to Specialized Cancer Care for African Americans. Journal of Rural Health, 2010, 26, 12-19.	1.6	24
34	Disparities in Geographic Accessibility of National Cancer Institute Cancer Centers in the United States. Journal of Medical Systems, 2017, 41, 203.	2.2	23
35	Temporal and Spatial Distributions of Ecological Vulnerability under the Influence of Natural and Anthropogenic Factors in an Eco-Province under Construction in China. Sustainability, 2018, 10, 3087.	1.6	23
36	Estimation of environmental exposure: interpolation, kernel density estimation or snapshotting. Annals of GIS, 2019, 25, 1-8.	1.4	23

#	Article	IF	Citations
37	Recent fall Eurasian cooling linked to North Pacific sea surface temperatures and a strengthening Siberian high. Nature Communications, 2020, 11, 5202.	5.8	22
38	State-specific projection of COVID-19 infection in the United States and evaluation of three major control measures. Scientific Reports, 2020, 10, 22429.	1.6	22
39	Spatial association between residential radon concentration and bedrock types in New Hampshire. Environmental Geology, 2006, 51, 65-71.	1.2	19
40	Spatiotemporally Varying Coefficients (STVC) model: a Bayesian local regression to detect spatial and temporal nonstationarity in variables relationships. Annals of GIS, 2020, 26, 277-291.	1.4	18
41	A Polygon-Based Locally-Weighted-Average Method for Smoothing Disease Rates of Small Units. Epidemiology, 2007, 18, 523-528.	1.2	17
42	An Experiment Using a Circular Neighborhood to Calculate Slope Gradient from a DEM. Photogrammetric Engineering and Remote Sensing, 2007, 73, 143-154.	0.3	16
43	Why does the runoff in Hotan River show a slight decreased trend in northwestern China?. Atmospheric Science Letters, 2018, 19, e800.	0.8	15
44	Geospatial analysis for utilizing the marginal land in regional biofuel industry: A case study in Guangdong Province, China. Biomass and Bioenergy, 2015, 83, 302-310.	2.9	13
45	Introduction: geospatial health research and GIS. Annals of GIS, 2015, 21, 93-95.	1.4	13
46	Epidemic Forest: A Spatiotemporal Model for Communicable Diseases. Annals of the American Association of Geographers, 2019, 109, 812-836.	1.5	13
47	Sensitivity of disease cluster detection to spatial scales: an analysis with the spatial scan statistic method. International Journal of Geographical Information Science, 2019, 33, 2125-2152.	2.2	12
48	Computational and data sciences for health-GIS. Annals of GIS, 2015, 21, 111-118.	1.4	11
49	Quantitative assessment of the ecological effects of land use/cover change in the arid region of Northwest China. Environmental Monitoring and Assessment, 2019, 191, 704.	1.3	11
50	Spatiotemporal disparities in regional public risk perception of COVID-19 using Bayesian Spatiotemporally Varying Coefficients (STVC) series models across Chinese cities. International Journal of Disaster Risk Reduction, 2022, 77, 103078.	1.8	11
51	Characterizing the geographic variation and risk factors of fatal prescription opioid poisoning in New Hampshire, 2003–2007. Annals of GIS, 2012, 18, 99-108.	1.4	10
52	Mapping Disease at an Approximated Individual Level Using Aggregate Data: A Case Study of Mapping New Hampshire Birth Defects. International Journal of Environmental Research and Public Health, 2013, 10, 4161-4174.	1.2	10
53	Alternating scanning orders and combining algorithms to improve the efficiency of flow accumulation calculation. International Journal of Geographical Information Science, 2015, 29, 1214-1239.	2.2	10
54	Alcohol Outlet Density and Area-Level Heavy Drinking Are Independent Risk Factors for Higher Alcohol-Related Complaints. Journal of Urban Health, 2019, 96, 889-901.	1.8	10

#	Article	IF	Citations
55	Estimating missing values in China's official socioeconomic statistics using progressive spatiotemporal Bayesian hierarchical modeling. Scientific Reports, 2018, 8, 10055.	1.6	10
56	Knowledge-Based Raster Mapping Approach to Wetland Assessment: a Case Study in Suzhou, China. Wetlands, 2016, 36, 143-158.	0.7	8
57	Nonlinear response of runoff to atmospheric freezing level height variation based on hybrid prediction models. Hydrological Sciences Journal, 2019, 64, 1556-1572.	1.2	8
58	Integration of spatialization and individualization: the future of epidemic modelling for communicable diseases. Annals of GIS, 2020, 26, 219-226.	1.4	8
59	Detecting space–time patterns of disease risk under dynamic background population. Journal of Geographical Systems, 2022, 24, 389-417.	1.9	8
60	Kernel density estimation with geographically masked points. , 2009, , .		5
61	Modeling the Response ofAnopheles gambiae(Diptera: Culicidae) Populations in the Kenya Highlands to a Rise in Mean Annual Temperature. Journal of Medical Entomology, 2016, 54, tjw174.	0.9	5
62	Estimating the longevity of glaciers in the Xinjiang region of the Tian Shan through observations of glacier area change since the Little Ice Age using high-resolution imagery. Journal of Glaciology, 2020, 66, 471-484.	1.1	5
63	GIS, Geostatistics, and Machine Learning in Medical Geology. , 2021, , 215-234.		5
64	The Incidence of Amyotrophic Lateral Sclerosis in Ohio 2016–2018: The Ohio Population-Based ALS Registry. Neuroepidemiology, 2021, 55, 196-205.	1.1	5
65	Quantifying the impact of mountain precipitation on runoff in Hotan River, northwestern China. Frontiers of Earth Science, 2020, 14, 568-577.	0.9	4
66	Kidney Cancer Risk Associated with Historic Groundwater Trichloroethylene Contamination. International Journal of Environmental Research and Public Health, 2022, 19, 618.	1.2	4
67	The contingency of medicare physician spending on population densities and sizes. Geo Journal, 2017, 82, 597-608.	1.7	2
68	Introduction: advances in geospatial analysis for health research. Annals of GIS, 2020, 26, 217-218.	1.4	2
69	Transmission center and driving factors of hand, foot, and mouth disease in China: A combined analysis. PLoS Neglected Tropical Diseases, 2020, 14, e0008070.	1.3	1
70	Why Health Services Research Needs Geoinformatics: Rationale and Case Example. Journal of Health & Medical Informatics, 2014, 5, .	0.2	1
71	An efficient multiple scanning order algorithm for accumulative least-cost surface calculation. International Journal of Geographical Information Science, 0, , 1-19.	2.2	1
72	Multi-type sweeping for improving the efficiency of flow accumulation calculation. , 2012, , .		0

#	Article	IF	Citations
73	Response of riparian ecosystem to dike construction on the Middle Reaches of the Tarim River, Northwest China. Ecohydrology, 2019, 12, e2117.	1.1	0