

Xun Shi

List of Publications by Year in descending order

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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	Kidney Cancer Risk Associated with Historic Groundwater Trichloroethylene Contamination. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 618.	1.2	4
2	Detecting space–time patterns of disease risk under dynamic background population. <i>Journal of Geographical Systems</i> , 2022, 24, 389-417.	1.9	8
3	Spatiotemporal disparities in regional public risk perception of COVID-19 using Bayesian Spatiotemporally Varying Coefficients (STVC) series models across Chinese cities. <i>International Journal of Disaster Risk Reduction</i> , 2022, 77, 103078.	1.8	11
4	GIS, Geostatistics, and Machine Learning in Medical Geology. , 2021, , 215-234.		5
5	The Incidence of Amyotrophic Lateral Sclerosis in Ohio 2016–2018: The Ohio Population-Based ALS Registry. <i>Neuroepidemiology</i> , 2021, 55, 196-205.	1.1	5
6	Pesticides applied to crops and amyotrophic lateral sclerosis risk in the U.S. <i>NeuroToxicology</i> , 2021, 87, 128-135.	1.4	25
7	Spatial Lifecourse Epidemiology Reporting Standards (ISLE-ReSt) statement. <i>Health and Place</i> , 2020, 61, 102243.	1.5	57
8	Recent fall Eurasian cooling linked to North Pacific sea surface temperatures and a strengthening Siberian high. <i>Nature Communications</i> , 2020, 11, 5202.	5.8	22
9	Spatiotemporally Varying Coefficients (STVC) model: a Bayesian local regression to detect spatial and temporal nonstationarity in variables relationships. <i>Annals of GIS</i> , 2020, 26, 277-291.	1.4	18
10	Introduction: advances in geospatial analysis for health research. <i>Annals of GIS</i> , 2020, 26, 217-218.	1.4	2
11	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. <i>Journal of Glaciology</i> , 2020, 66, 471-484.	1.1	5
12	Quantifying the impact of mountain precipitation on runoff in Hotan River, northwestern China. <i>Frontiers of Earth Science</i> , 2020, 14, 568-577.	0.9	4
13	Transmission center and driving factors of hand, foot, and mouth disease in China: A combined analysis. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008070.	1.3	1
14	Integration of spatialization and individualization: the future of epidemic modelling for communicable diseases. <i>Annals of GIS</i> , 2020, 26, 219-226.	1.4	8
15	State-specific projection of COVID-19 infection in the United States and evaluation of three major control measures. <i>Scientific Reports</i> , 2020, 10, 22429.	1.6	22
16	Exploring spatiotemporal nonstationary effects of climate factors on hand, foot, and mouth disease using Bayesian Spatiotemporally Varying Coefficients (STVC) model in Sichuan, China. <i>Science of the Total Environment</i> , 2019, 648, 550-560.	3.9	36
17	Response of riparian ecosystem to dike construction on the Middle Reaches of the Tarim River, Northwest China. <i>Ecohydrology</i> , 2019, 12, e2117.	1.1	0
18	Quantitative assessment of the ecological effects of land use/cover change in the arid region of Northwest China. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 704.	1.3	11

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19	Nonlinear response of runoff to atmospheric freezing level height variation based on hybrid prediction models. <i>Hydrological Sciences Journal</i> , 2019, 64, 1556-1572.	1.2	8
20	Alcohol Outlet Density and Area-Level Heavy Drinking Are Independent Risk Factors for Higher Alcohol-Related Complaints. <i>Journal of Urban Health</i> , 2019, 96, 889-901.	1.8	10
21	Sensitivity of disease cluster detection to spatial scales: an analysis with the spatial scan statistic method. <i>International Journal of Geographical Information Science</i> , 2019, 33, 2125-2152.	2.2	12
22	Epidemic Forest: A Spatiotemporal Model for Communicable Diseases. <i>Annals of the American Association of Geographers</i> , 2019, 109, 812-836.	1.5	13
23	Estimation of environmental exposure: interpolation, kernel density estimation or snapshotting. <i>Annals of GIS</i> , 2019, 25, 1-8.	1.4	23
24	Why does the runoff in Hotan River show a slight decreased trend in northwestern China?. <i>Atmospheric Science Letters</i> , 2018, 19, e800.	0.8	15
25	Assessing Cyanobacterial Harmful Algal Blooms as Risk Factors for Amyotrophic Lateral Sclerosis. <i>Neurotoxicity Research</i> , 2018, 33, 199-212.	1.3	50
26	Temporal and Spatial Distributions of Ecological Vulnerability under the Influence of Natural and Anthropogenic Factors in an Eco-Province under Construction in China. <i>Sustainability</i> , 2018, 10, 3087.	1.6	23
27	Estimating missing values in China's official socioeconomic statistics using progressive spatiotemporal Bayesian hierarchical modeling. <i>Scientific Reports</i> , 2018, 8, 10055.	1.6	10
28	The contingency of medicare physician spending on population densities and sizes. <i>Geo Journal</i> , 2017, 82, 597-608.	1.7	2
29	Disparities in Geographic Accessibility of National Cancer Institute Cancer Centers in the United States. <i>Journal of Medical Systems</i> , 2017, 41, 203.	2.2	23
30	Modeling the Response of <i>Anopheles gambiae</i> (Diptera: Culicidae) Populations in the Kenya Highlands to a Rise in Mean Annual Temperature. <i>Journal of Medical Entomology</i> , 2016, 54, tjw174.	0.9	5
31	Travel Burden to Breast MRI and Utilization: Are Risk and Sociodemographics Related?. <i>Journal of the American College of Radiology</i> , 2016, 13, 611-619.	0.9	37
32	Assessing spatial access to public and private hospitals in Sichuan, China: The influence of the private sector on the healthcare geography in China. <i>Social Science and Medicine</i> , 2016, 170, 35-45.	1.8	84
33	Is the closest facility the one actually used? An assessment of travel time estimation based on mammography facilities. <i>International Journal of Health Geographics</i> , 2016, 15, 8.	1.2	52
34	Mapping Global Fossil Fuel Combustion CO ₂ Emissions at High Resolution by Integrating Nightlight, Population Density, and Traffic Network Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 1674-1684.	2.3	25
35	Knowledge-Based Raster Mapping Approach to Wetland Assessment: a Case Study in Suzhou, China. <i>Wetlands</i> , 2016, 36, 143-158.	0.7	8
36	Geospatial analysis for utilizing the marginal land in regional biofuel industry: A case study in Guangdong Province, China. <i>Biomass and Bioenergy</i> , 2015, 83, 302-310.	2.9	13

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37	Computational and data sciences for health-GIS. <i>Annals of GIS</i> , 2015, 21, 111-118.	1.4	11
38	Introduction: geospatial health research and GIS. <i>Annals of GIS</i> , 2015, 21, 93-95.	1.4	13
39	Geospatial association between adverse birth outcomes and arsenic in groundwater in New Hampshire, USA. <i>Environmental Geochemistry and Health</i> , 2015, 37, 333-351.	1.8	31
40	Alternating scanning orders and combining algorithms to improve the efficiency of flow accumulation calculation. <i>International Journal of Geographical Information Science</i> , 2015, 29, 1214-1239.	2.2	10
41	Why Health Services Research Needs Geoinformatics: Rationale and Case Example. <i>Journal of Health & Medical Informatics</i> , 2014, 5, .	0.2	1
42	Temperature and precipitation changes in different environments in the arid region of northwest China. <i>Theoretical and Applied Climatology</i> , 2013, 112, 589-596.	1.3	111
43	Mapping Disease at an Approximated Individual Level Using Aggregate Data: A Case Study of Mapping New Hampshire Birth Defects. <i>International Journal of Environmental Research and Public Health</i> , 2013, 10, 4161-4174.	1.2	10
44	Characterizing the geographic variation and risk factors of fatal prescription opioid poisoning in New Hampshire, 2003â€“2007. <i>Annals of GIS</i> , 2012, 18, 99-108.	1.4	10
45	Multi-type sweeping for improving the efficiency of flow accumulation calculation. , 2012, , .		0
46	A comparison of LiDAR-based DEMs and USGS-sourced DEMs in terrain analysis for knowledge-based digital soil mapping. <i>Geoderma</i> , 2012, 170, 217-226.	2.3	29
47	Why does the temperature rise faster in the arid region of northwest China?. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	132
48	A multi-type ant colony optimization (MACO) method for optimal land use allocation in large areas. <i>International Journal of Geographical Information Science</i> , 2012, 26, 1325-1343.	2.2	115
49	Spatial Access and Local Demand for Major Cancer Care Facilities in the United States. <i>Annals of the American Association of Geographers</i> , 2012, 102, 1125-1134.	3.0	56
50	The influence of travel time on breast cancer characteristics, receipt of primary therapy, and surveillance mammography. <i>Breast Cancer Research and Treatment</i> , 2011, 129, 269-275.	1.1	44
51	Coupling Simulation and Optimization to Solve Planning Problems in a Fast-Developing Area. <i>Annals of the American Association of Geographers</i> , 2011, 101, 1032-1048.	3.0	35
52	Alcohol Retail Density and Demographic Predictors of Health Disparities: A Geographic Analysis. <i>American Journal of Public Health</i> , 2010, 100, 1967-1971.	1.5	89
53	Race versus place of service in mortality among Medicare beneficiaries with cancer. <i>Cancer</i> , 2010, 116, 2698-2706.	2.0	50
54	Density estimation and adaptive bandwidths: A primer for public health practitioners. <i>International Journal of Health Geographics</i> , 2010, 9, 39.	1.2	108

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55	Influence of Place of Residence in Access to Specialized Cancer Care for African Americans. <i>Journal of Rural Health</i> , 2010, 26, 12-19.	1.6	24
56	Selection of bandwidth type and adjustment side in kernel density estimation over inhomogeneous backgrounds. <i>International Journal of Geographical Information Science</i> , 2010, 24, 643-660.	2.2	108
57	Simulating land-use dynamics under planning policies by integrating artificial immune systems with cellular automata. <i>International Journal of Geographical Information Science</i> , 2010, 24, 783-802.	2.2	102
58	Kernel density estimation with geographically masked points. , 2009, , .		5
59	A Geocomputational Process for Characterizing the Spatial Pattern of Lung Cancer Incidence in New Hampshire. <i>Annals of the American Association of Geographers</i> , 2009, 99, 521-533.	3.0	30
60	Influence of NCI Cancer Center Attendance on Mortality in Lung, Breast, Colorectal, and Prostate Cancer Patients. <i>Medical Care Research and Review</i> , 2009, 66, 542-560.	1.0	64
61	Determinants of NCI Cancer Center Attendance in Medicare Patients with Lung, Breast, Colorectal, or Prostate Cancer. <i>Journal of General Internal Medicine</i> , 2009, 24, 205-210.	1.3	49
62	Computing travel time when the exact address is unknown: a comparison of point and polygon ZIP code approximation methods. <i>International Journal of Health Geographics</i> , 2009, 8, 23.	1.2	56
63	Quantification of spatial gradation of slope positions. <i>Geomorphology</i> , 2009, 110, 152-161.	1.1	52
64	Geographic access to cancer care in the U.S.. <i>Cancer</i> , 2008, 112, 909-918.	2.0	304
65	Spatial distribution of agricultural residue from rice for potential biofuel production in China. <i>Biomass and Bioenergy</i> , 2008, 32, 22-27.	2.9	58
66	Using spatial information technologies to select sites for biomass power plants: A case study in Guangdong Province, China. <i>Biomass and Bioenergy</i> , 2008, 32, 35-43.	2.9	109
67	Monitoring mangrove forest changes using remote sensing and GIS data with decision-tree learning. <i>Wetlands</i> , 2008, 28, 336-346.	0.7	115
68	A Polygon-Based Locally-Weighted-Average Method for Smoothing Disease Rates of Small Units. <i>Epidemiology</i> , 2007, 18, 523-528.	1.2	17
69	An Experiment Using a Circular Neighborhood to Calculate Slope Gradient from a DEM. <i>Photogrammetric Engineering and Remote Sensing</i> , 2007, 73, 143-154.	0.3	16
70	Spatial association between residential radon concentration and bedrock types in New Hampshire. <i>Environmental Geology</i> , 2006, 51, 65-71.	1.2	19
71	A Case-based Reasoning Approach to Fuzzy Soil Mapping. <i>Soil Science Society of America Journal</i> , 2004, 68, 885-894.	1.2	60
72	A Case-based Reasoning Approach to Fuzzy Soil Mapping. <i>Soil Science Society of America Journal</i> , 2004, 68, 885.	1.2	26

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73	An efficient multiple scanning order algorithm for accumulative least-cost surface calculation. International Journal of Geographical Information Science, 0, , 1-19.	2.2	1