David W S Wong

List of Publications by Year
in descending order

103 papers	5,244 citations	147726 31 h-index	91828 69 g-index
105 all docs	105 docs citations	105 times ranked	6129 citing authors

#	Article	IF	Citations
1	Changing Age Segregation in the US: 1990 to 2010. Research on Aging, 2022, , 016402752210743.	0.9	3
2	How â€œDependentâ€•Are We? A Spatiotemporal Analysis of the Young and the Older Adult Populations in the US. Population Research and Policy Review, 2021, 40, 1221-1252.	1.0	1
3	Exploratory multivariate spaceâ€"time analysis of colonial justice in Hong Kong during 1900â€"1930. Geo Journal, 2021, 86, 255-279.	1.7	0
4	Looking Back, Looking Forward: Progress and Prospect for Spatial Demography. Spatial Demography, 2021, 9, 1-29.	0.4	5
5	Measuring Local Spatial Autocorrelation with Data Reliability Information. Professional Geographer, 2021, 73, 464-480.	1.0	4
6	Issues in the Current Practices of Spatial Cluster Detection and Exploring Alternative Methods. International Journal of Environmental Research and Public Health, 2021, 18, 9848.	1.2	3
7	Congressional districts: How â€œequalâ€•are they?. Geo Journal, 2020, 85, 303-327.	1.7	1
8	Taking the pulse of COVID-19: a spatiotemporal perspective. International Journal of Digital Earth, 2020, 13, 1186-1211.	1.6	88
9	Exploring different dimensions in defining the Alabama Black Belt. Geo Journal, 2020, , 1.	1.7	1
10	No more â€œsocial distancingâ€•but practice physical separation. Canadian Journal of Public Health, 2020, 111, 488-489.	1.1	13
11	Everâ€transient FDI and everâ€polarizing regional development: Revisiting conventional theories of regional development in the context of China, Southeast and South Asia. Growth and Change, 2020, 51, 338-361.	1.3	17
12	Spreading of COVID-19: Density matters. PLoS ONE, 2020, 15, e0242398.	1.1	169
13	Thomas, Richard K.: Concepts, Methods and Practical Applications in Applied Demography: An Introductory Text. Spatial Demography, 2019, 7, 103-104.	0.4	0
14	Measuring Global Spatial Autocorrelation with Data Reliability Information. Professional Geographer, 2019, 71, 551-565.	1.0	11
15	Translational Health Disparities Research in a Data-Rich World. American Journal of Public Health, 2019, 109, S41-S42.	1.5	22
16	Translational Health Disparities Research in a Data-Rich World. Health Equity, 2019, 3, 588-600.	0.8	29
17	Spatial Segregation Measures: A Methodological Review. Tijdschrift Voor Economische En Sociale Geografie, 2019, 110, 235-250.	1.2	57
18	Congressional Redistricting: Keeping Communities Together?. Professional Geographer, 2018, 70, 609-623.	1.0	4

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19	Comparing implementations of global and local indicators of spatial association. Test, 2018, 27, 716-748.	0.7	603
20	Spatial Analysis Methods. , 2018, , 125-147.		2
21	A heuristic multi-criteria classification approach incorporating data quality information for choropleth mapping. Cartography and Geographic Information Science, 2017, 44, 246-258.	1.4	21
22	Visualizing statistical significance of disease clusters using cartograms. International Journal of Health Geographics, 2017, 16, 19.	1.2	9
23	â€œVoting with Their Feetâ€• Delineating the Sphere of Influence Using Social Media Data. ISPRS International Journal of Geo-Information, 2017, 6, 325.	1.4	3
24	Big Data Science: Opportunities and Challenges to Address Minority Health and Health Disparities in the 21st Century. Ethnicity and Disease, 2017, 27, 95.	1.0	141
25	Spatializing Area-Based Measures of Neighborhood Characteristics for Multilevel Regression Analyses: An Areal Median Filtering Approach. Journal of Urban Health, 2016, 93, 551-571.	1.8	9
26	Activity patterns, socioeconomic status and urban spatial structure: what can social media data tell us?. International Journal of Geographical Information Science, 2016, 30, 1873-1898.	2.2	140
27	From Aspatial to Spatial, from Global to Local and Individual: Are We on the Right Track to Spatialize Segregation Measures?. , 2016, , 77-98.		15
28	How ethnically diverse can a â€œChinese Cityâ€•be? The case of Hong Kong. Eurasian Geography and Economics, 2015, 56, 331-355.	1.7	2
29	A Semi-Analytical Model for Remote Sensing Retrieval of Suspended Sediment Concentration in the Gulf of Bohai, China. Remote Sensing, 2015, 7, 5373-5397.	1.8	32
30	An interactive mapping system incorporating data reliability information. , 2015, , .		0
31	A Classification Method for Choropleth Maps Incorporating Data Reliability Information. Professional Geographer, 2015, 67, 72-83.	1.0	23
32	Modeling and Visualizing Regular Human Mobility Patterns with Uncertainty: An Example Using Twitter Data. Annals of the American Association of Geographers, 2015, 105, 1179-1197.	3.0	69
33	Changing urban residential patterns of Chinese migrants: Shanghai, 2000â€"2010. Urban Geography, 2015, 36, 109-126.	1.7	42
34	Uncertainty-Related Research Issues in Spatial Analysis. , 2015, , 3-11.		10
35	Capturing the Two Dimensions of Residential Segregation at the Neighborhood Level for Health Research. Frontiers in Public Health, 2014, 2, 118.	1.3	27
36	Impacts of Scale on Geographic Analysis of Health Data: An Example of Obesity Prevalence. ISPRS International Journal of Geo-Information, 2014, 3, 1198-1210.	1.4	11

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37	STModelViz: A 3D spatiotemporal GIS using a constraint-based approach. Computers, Environment and Urban Systems, 2014, 45, 34-49.	3.3	2
38	Evaluating the "geographical awareness" of individuals: an exploratory analysis of twitter data. Cartography and Geographic Information Science, 2013, 40, 103-115.	1.4	45
39	An ArcScene plug-in for volumetric data conversion, modeling and spatial analysis. Computers and Geosciences, 2013, 61, 104-115.	2.0	11
40	Neighborhood racial residential segregation and changes in health or death among older adults. Health and Place, 2013, 19, 80-88.	1.5	30
41	Cartographic techniques for communicating class separability: enhanced choropleth maps of median household income, Iowa. Journal of Maps, 2013, 9, 43-49.	1.0	6
42	An approach to differentiate informal settlements using spectral, texture, geomorphology and road accessibility metrics. Applied Geography, 2013, 38, 107-118.	1.7	77
43	Exploring structural differences between rural and urban informal settlements from imagery: thebasurerosof CobÃ¡n. Geocarto International, 2013, 28, 562-581.	1.7	8
44	Mapping urban land uses in the United States by census zone using nationally available data. Journal of Land Use Science, 2013, 8, 466-488.	1.0	2
45	Handling Data Quality Information of Survey Data in GIS: A Case of Using the American Community Survey Data. Spatial Demography, 2013, 1, 3-16.	0.4	18
46	City-scale urban transport and dispersion simulation using geographic information system footprints. , 2012, , .		0
47	Transport and dispersion simulation in downtown Oklahoma City and New York City. , 2012, , .		0
48	Addressing quality issues of historical GIS data: an example of Republican Beijing. Annals of GIS, 2012, 18, 17-29.	1.4	6
49	An exploratory spatial analysis of western medical services in Republican Beijing. Applied Geography, 2012, 32, 556-565.	1.7	28
50	Clusters in irregular areas and lattices. Wiley Interdisciplinary Reviews: Computational Statistics, 2012, 4, 67-74.	2.1	7
51	Creating building ground plans via robust K-way union. Visual Computer, 2012, 28, 401-412.	2.5	1
52	Generating seamless surfaces for transport and dispersion modeling in GIS. GeoInformatica, 2012, 16, 307-327.	2.0	11
53	Exploring Spatial Patterns Using an Expanded Spatial Autocorrelation Framework. Geographical Analysis, 2011, 43, 327-338.	1.9	3
54	Fast and robust generation of city-scale seamless 3D urban models. CAD Computer Aided Design, 2011, 43, 1380-1390.	1.4	7

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55	Visualizing dynamic geosciences phenomena using an octree-based view-dependent LOD strategy within virtual globes. Computers and Geosciences, 2011, 37, 1295-1302.	2.0	33
56	Measuring segregation: an activity space approach. Journal of Geographical Systems, 2011, 13, 127-145.	1.9	217
57	Racial/Ethnic Residential Segregation and Self-Reported Hypertension Among US- and Foreign-Born Blacks in New York City. American Journal of Hypertension, 2011, 24, 904-910.	1.0	36
58	Effects of DEM sources on hydrologic applications. Computers, Environment and Urban Systems, 2010, 34, 251-261.	3.3	155
59	Incorporating Data Quality Information in Mapping American Community Survey Data. Cartography and Geographic Information Science, 2010, 37, 285-299.	1.4	39
60	Environmental and Related Applications. , 2010, , 303-349.		1
61	Spatial Data Analysis and Geoinformation Extraction. , 2010, , 145-203.		0
62	Advanced Geoinformation Science. , 2010, , 1-15.		0
63	An interoperable spatiotemporal weather radar data dissemination system. International Journal of Remote Sensing, 2009, 30, 1313-1326.	1.3	7
64	Exploring and simulating the regularities in intra-urban population density structure. Annals of GIS, 2009, 15, 11-22.	1.4	1
65	An adaptive inverse-distance weighting spatial interpolation technique. Computers and Geosciences, 2008, 34, 1044-1055.	2.0	956
66	Predicting Sinkhole Susceptibility in Frederick Valley, Maryland Using Geographically Weighted Regression. , 2008, , .		5
67	A Local Multidimensional Approach to Evaluate Changes in Segregation. Urban Geography, 2008, 29, 455-472.	1.7	32
68	Conceptual and Operational Issues in Incorporating Segregation Measurements in Hedonic Price Modeling. , 2008, , 159-175.		6
69	Integrating computational fluid dynamics (CFD) models with GIS: an evaluation on data conversion formats. Proceedings of SPIE, 2007, 6753, 368.	0.8	9
70	Introduction—Segregation and Neighborhood Change: Where are we After More Than a Half-Century of Formal Analysis[1]. Urban Geography, 2007, 28, 305-311.	1.7	19
71	Introduction-Further Innovations in Segregation and Neighborhood Change Research. Urban Geography, 2007, 28, 513-515.	1.7	9
72	A Surface-Based Approach to Measuring Spatial Segregation. Geographical Analysis, 2007, 39, 147-168.	1.9	106

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73	Vulnerability assessment of rainfall-induced debris flows in Taiwan. Natural Hazards, 2007, 43, 223-244.	1.6	30
74	Modeling population density across major US cities: a polycentric spatial regression approach. Journal of Geographical Systems, 2007, 9, 53-75.	1.9	65
75	Implementing computing techniques to accelerate network GIS. , 2006, 6418, 429.		7
76	Exploring GIS, spatial statistics and remote sensing for risk assessment of vector-borne diseases: a West Nile virus example. International Journal of Risk Assessment and Management, 2006, 6, 253.	0.2	20
77	Exploring and visualizing sea ice chart data using Java-based GIS tools. Computers and Geosciences, 2006, 32, 846-858.	2.0	10
78	Formulating a General Spatial Segregation Measure. Professional Geographer, 2005, 57, 285-294.	1.0	84
79	Performance-improving techniques in web-based GIS. International Journal of Geographical Information Science, 2005, 19, 319-342.	2.2	156
80	Comparing Traditional and Spatial Segregation Measures: A Spatial Scale Perspective[1]. Urban Geography, 2004, 25, 66-82.	1.7	96
81	Comparison of spatial interpolation methods for the estimation of air quality data. Journal of Exposure Science and Environmental Epidemiology, 2004, 14, 404-415.	1.8	271
82	Implementing spatial segregation measures in GIS. Computers, Environment and Urban Systems, 2003, 27, 53-70.	3.3	62
83	Spatial Decomposition of Segregation Indices: A Framework Toward Measuring Segregation at Multiple Levels. Geographical Analysis, 2003, 35, 179-194.	1.9	77
84	Exploring Relationships Between the Global and Regional Measures of Spatial Autocorrelation. Journal of Regional Science, 2003, 43, 683-710.	2.1	40
85	Remote sensing and GIS for regional environmental applications. , 2003, , .		1
86	A Framework for Using Geographic Information Systems Technology for Environmental Risk Assessment. Journal of Children S Health, 2003, 1, 215-227.	0.3	0
87	Modeling Local Segregation: A Spatial Interaction Approach. Geographical and Environmental Modelling, 2002, 6, 81-97.	0.7	83
88	Spatial Measures of Segregation and Gis[1]. Urban Geography, 2002, 23, 85-92.	1.7	42
89	Residential Proximity to Industrial Sources of Air Pollution: Interrelationships among Race, Poverty, and Age. Journal of the Air and Waste Management Association, 2001, 51, 406-421.	0.9	139
90	Interval and Placement Effects on Topographic Data: Using Viewshed Analysis as An Example. Annals of GIS, 2001, 7, 53-65.	1.4	0

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91	Location‑Specific Cumulative Distribution Function (LSCDF): An Alternative to Spatial Correlation Analysis. Geographical Analysis, 2001, 33, 76-93.	1.9	14
92	The Atlanta Paradox. David L. Sjoquist, editor;Segregation in Cities. David H. Kaplan and Steven R. Holloway;Globalization and Networked Societies: Urban-Regional Change in Pacific Asia. Yueman Yeung, andUrban Development in Asia: Retrospect and Prospect. Yue-man Yeung, editor. Urban Geography, 2000, 21, 764-768.	1.7	0
93	Changing Patterns of Population Density in the United States. Professional Geographer, 2000, 52, 504-517.	1.0	27
94	An examination of race and poverty for populations living near industrial sources of air pollution. Journal of Exposure Science and Environmental Epidemiology, 1999, 9, 29-48.	1.8	84
95	A geographical analysis of multiethnic households in the United States. , 1999, 5, 31-48.		12
96	GEOSTATISTICS AS MEASURES OF SPATIAL SEGREGATION. Urban Geography, 1999, 20, 635-647.	1.7	84
97	Spatial Patterns of Ethnic Integration in the United States. Professional Geographer, 1998, 50, 13-30.	1.0	13
98	MEASURING MULTIETHNIC SPATIAL SEGREGATION. Urban Geography, 1998, 19, 77-87.	1.7	91
99	Creating a Web-based Electronic Reserve Library for Teaching World Regional Geography. Journal of Geography in Higher Education, 1998, 22, 257-262.	1.4	7
100	USING SPATIAL SEGREGATION MEASURES IN GIS AND STATISTICAL MODELING PACKAGES. Urban Geography, 1998, 19, 477-485.	1.7	18
101	Towards a framework for learning with GIS: The case of Urban World, a hypermap learning environment based on GIS. Transactions in GIS, 1997, 2, 151-167.	1.0	5
102	Enhancing segregation studies using GIS. Computers, Environment and Urban Systems, 1996, 20, 99-109.	3.3	28
103	Spatial Indices of Segregation. Urban Studies, 1993, 30, 559-572.	2.2	196