David W S Wong

List of Publications by Year
in descending order

103 papers	5,244 citations	147801 31 h-index	91884 69 g-index
105 all docs	105 docs citations	105 times ranked	6129 citing authors

#	Article	IF	Citations
1	An adaptive inverse-distance weighting spatial interpolation technique. Computers and Geosciences, 2008, 34, 1044-1055.	4.2	956
2	Comparing implementations of global and local indicators of spatial association. Test, 2018, 27, 716-748.	1.1	603
3	Comparison of spatial interpolation methods for the estimation of air quality data. Journal of Exposure Science and Environmental Epidemiology, 2004, 14, 404-415.	3.9	271
4	Measuring segregation: an activity space approach. Journal of Geographical Systems, 2011, 13, 127-145.	3.1	217
5	Spatial Indices of Segregation. Urban Studies, 1993, 30, 559-572.	3.7	196
6	Spreading of COVID-19: Density matters. PLoS ONE, 2020, 15, e0242398.	2.5	169
7	Performanceâ€improving techniques in webâ€based GIS. International Journal of Geographical Information Science, 2005, 19, 319-342.	4.8	156
8	Effects of DEM sources on hydrologic applications. Computers, Environment and Urban Systems, 2010, 34, 251-261.	7.1	155
9	Big Data Science: Opportunities and Challenges to Address Minority Health and Health Disparities in the 21st Century. Ethnicity and Disease, 2017, 27, 95.	2.3	141
10	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.	4.8	140
11	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.	1.9	139
12	A Surface-Based Approach to Measuring Spatial Segregation. Geographical Analysis, 2007, 39, 147-168.	3.5	106
13	Comparing Traditional and Spatial Segregation Measures: A Spatial Scale Perspective¹. Urban Geography, 2004, 25, 66-82.	3.0	96
14	MEASURING MULTIETHNIC SPATIAL SEGREGATION. Urban Geography, 1998, 19, 77-87.	3.0	91
15	Taking the pulse of COVID-19: a spatiotemporal perspective. International Journal of Digital Earth, 2020, 13, 1186-1211.	3.9	88
16	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.	3.9	84
17	GEOSTATISTICS AS MEASURES OF SPATIAL SEGREGATION. Urban Geography, 1999, 20, 635-647.	3.0	84
18	Formulating a General Spatial Segregation Measure. Professional Geographer, 2005, 57, 285-294.	1.8	84

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19	Modeling Local Segregation: A Spatial Interaction Approach. Geographical and Environmental Modelling, 2002, 6, 81-97.	0.7	83
20	Spatial Decomposition of Segregation Indices: A Framework Toward Measuring Segregation at Multiple Levels. Geographical Analysis, 2003, 35, 179-194.	3.5	77
21	An approach to differentiate informal settlements using spectral, texture, geomorphology and road accessibility metrics. Applied Geography, 2013, 38, 107-118.	3.7	77
22	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
23	Modeling population density across major US cities: a polycentric spatial regression approach. Journal of Geographical Systems, 2007, 9, 53-75.	3.1	65
24	Implementing spatial segregation measures in GIS. Computers, Environment and Urban Systems, 2003, 27, 53-70.	7.1	62
25	Spatial Segregation Measures: A Methodological Review. Tijdschrift Voor Economische En Sociale Geografie, 2019, 110, 235-250.	2.1	57
26	Evaluating the â€œgeographical awarenessâ€•of individuals: an exploratory analysis of twitter data. Cartography and Geographic Information Science, 2013, 40, 103-115.	3.0	45
27	Spatial Measures of Segregation and Gis¹. Urban Geography, 2002, 23, 85-92.	3.0	42
28	Changing urban residential patterns of Chinese migrants: Shanghai, 2000â€“2010. Urban Geography, 2015, 36, 109-126.	3.0	42
29	Exploring Relationships Between the Global and Regional Measures of Spatial Autocorrelation. Journal of Regional Science, 2003, 43, 683-710.	3.3	40
30	Incorporating Data Quality Information in Mapping American Community Survey Data. Cartography and Geographic Information Science, 2010, 37, 285-299.	3.0	39
31	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.	2.0	36
32	Visualizing dynamic geosciences phenomena using an octree-based view-dependent LOD strategy within virtual globes. Computers and Geosciences, 2011, 37, 1295-1302.	4.2	33
33	A Local Multidimensional Approach to Evaluate Changes in Segregation. Urban Geography, 2008, 29, 455-472.	3.0	32
34	A Semi-Analytical Model for Remote Sensing Retrieval of Suspended Sediment Concentration in the Gulf of Bohai, China. Remote Sensing, 2015, 7, 5373-5397.	4.0	32
35	Vulnerability assessment of rainfall-induced debris flows in Taiwan. Natural Hazards, 2007, 43, 223-244.	3.4	30
36	Neighborhood racial residential segregation and changes in health or death among older adults. Health and Place, 2013, 19, 80-88.	3.3	30

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37	Translational Health Disparities Research in a Data-Rich World. Health Equity, 2019, 3, 588-600.	1.9	29
38	Enhancing segregation studies using GIS. Computers, Environment and Urban Systems, 1996, 20, 99-109.	7.1	28
39	An exploratory spatial analysis of western medical services in Republican Beijing. Applied Geography, 2012, 32, 556-565.	3.7	28
40	Changing Patterns of Population Density in the United States. Professional Geographer, 2000, 52, 504-517.	1.8	27
41	Capturing the Two Dimensions of Residential Segregation at the Neighborhood Level for Health Research. Frontiers in Public Health, 2014, 2, 118.	2.7	27
42	A Classification Method for Choropleth Maps Incorporating Data Reliability Information. Professional Geographer, 2015, 67, 72-83.	1.8	23
43	Translational Health Disparities Research in a Data-Rich World. American Journal of Public Health, 2019, 109, S41-S42.	2.7	22
44	A heuristic multi-criteria classification approach incorporating data quality information for choropleth mapping. Cartography and Geographic Information Science, 2017, 44, 246-258.	3.0	21
45	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.	0.1	20
46	Introductionâ€"Segregation and Neighborhood Change: Where are we After More Than a Half-Century of Formal Analysis¹. Urban Geography, 2007, 28, 305-311.	3.0	19
47	USING SPATIAL SEGREGATION MEASURES IN GIS AND STATISTICAL MODELING PACKAGES. Urban Geography, 1998, 19, 477-485.	3.0	18
48	Handling Data Quality Information of Survey Data in GIS: A Case of Using the American Community Survey Data. Spatial Demography, 2013, 1, 3-16.	0.9	18
49	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.	2.6	17
50	From Aspatial to Spatial, from Global to Local and Individual: Are We on the Right Track to Spatialize Segregation Measures?. , 2016, , 77-98.		15
51	Locationâ€Specific Cumulative Distribution Function (LSCDF): An Alternative to Spatial Correlation Analysis. Geographical Analysis, 2001, 33, 76-93.	3.5	14
52	Spatial Patterns of Ethnic Integration in the United States. Professional Geographer, 1998, 50, 13-30.	1.8	13
53	No more â€œsocial distancingâ€•but practice physical separation. Canadian Journal of Public Health, 2020, 111, 488-489.	2.3	13
54	A geographical analysis of multiethnic households in the United States. , 1999, 5, 31-48.		12

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55	Generating seamless surfaces for transport and dispersion modeling in GIS. GeoInformatica, 2012, 16, 307-327.	2.7	11
56	An ArcScene plug-in for volumetric data conversion, modeling and spatial analysis. Computers and Geosciences, 2013, 61, 104-115.	4.2	11
57	Impacts of Scale on Geographic Analysis of Health Data: An Example of Obesity Prevalence. ISPRS International Journal of Geo-Information, 2014, 3, 1198-1210.	2.9	11
58	Measuring Global Spatial Autocorrelation with Data Reliability Information. Professional Geographer, 2019, 71, 551-565.	1.8	11
59	Exploring and visualizing sea ice chart data using Java-based GIS tools. Computers and Geosciences, 2006, 32, 846-858.	4.2	10
60	Uncertainty-Related Research Issues in Spatial Analysis. , 2015, , 3-11.		10
61	Integrating computational fluid dynamics (CFD) models with GIS: an evaluation on data conversion formats. Proceedings of SPIE, 2007, 6753, 368.	0.8	9
62	Introduction-Further Innovations in Segregation and Neighborhood Change Research. Urban Geography, 2007, 28, 513-515.	3.0	9
63	Spatializing Area-Based Measures of Neighborhood Characteristics for Multilevel Regression Analyses: An Areal Median Filtering Approach. Journal of Urban Health, 2016, 93, 551-571.	3.6	9
64	Visualizing statistical significance of disease clusters using cartograms. International Journal of Health Geographics, 2017, 16, 19.	2.5	9
65	Exploring structural differences between rural and urban informal settlements from imagery: thebasurerosof CobÃ¡n. Geocarto International, 2013, 28, 562-581.	3.5	8
66	Creating a Web-based Electronic Reserve Library for Teaching World Regional Geography. Journal of Geography in Higher Education, 1998, 22, 257-262.	2.6	7
67	Implementing computing techniques to accelerate network GIS. , 2006, 6418, 429.		7
68	An interoperable spatiotemporal weather radar data dissemination system. International Journal of Remote Sensing, 2009, 30, 1313-1326.	2.9	7
69	Fast and robust generation of city-scale seamless 3D urban models. CAD Computer Aided Design, 2011, 43, 1380-1390.	2.7	7
70	Clusters in irregular areas and lattices. Wiley Interdisciplinary Reviews: Computational Statistics, 2012, 4, 67-74.	3.9	7
71	Addressing quality issues of historical GIS data: an example of Republican Beijing. Annals of GIS, 2012, 18, 17-29.	3.1	6
72	Cartographic techniques for communicating class separability: enhanced choropleth maps of median household income, Iowa. Journal of Maps, 2013, 9, 43-49.	2.0	6

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73	Conceptual and Operational Issues in Incorporating Segregation Measurements in Hedonic Price Modeling. , 2008, , 159-175.		6
74	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.	2.3	5
75	Predicting Sinkhole Susceptibility in Frederick Valley, Maryland Using Geographically Weighted Regression. , 2008, , .		5
76	Looking Back, Looking Forward: Progress and Prospect for Spatial Demography. Spatial Demography, 2021, 9, 1-29.	0.9	5
77	Congressional Redistricting: Keeping Communities Together?. Professional Geographer, 2018, 70, 609-623.	1.8	4
78	Measuring Local Spatial Autocorrelation with Data Reliability Information. Professional Geographer, 2021, 73, 464-480.	1.8	4
79	Exploring Spatial Patterns Using an Expanded Spatial Autocorrelation Framework. Geographical Analysis, 2011, 43, 327-338.	3.5	3
80	â€œVoting with Their Feetâ€• Delineating the Sphere of Influence Using Social Media Data. ISPRS International Journal of Geo-Information, 2017, 6, 325.	2.9	3
81	Issues in the Current Practices of Spatial Cluster Detection and Exploring Alternative Methods. International Journal of Environmental Research and Public Health, 2021, 18, 9848.	2.6	3
82	Changing Age Segregation in the US: 1990 to 2010. Research on Aging, 2022, , 016402752210743.	1.8	3
83	Mapping urban land uses in the United States by census zone using nationally available data. Journal of Land Use Science, 2013, 8, 466-488.	2.2	2
84	STModelViz: A 3D spatiotemporal GIS using a constraint-based approach. Computers, Environment and Urban Systems, 2014, 45, 34-49.	7.1	2
85	How ethnically diverse can a â€œChinese Cityâ€•be? The case of Hong Kong. Eurasian Geography and Economics, 2015, 56, 331-355.	2.6	2
86	Spatial Analysis Methods. , 2018, , 125-147.		2
87	Remote sensing and GIS for regional environmental applications. , 2003, , .		1
88	Exploring and simulating the regularities in intra-urban population density structure. Annals of GIS, 2009, 15, 11-22.	3.1	1
89	Creating building ground plans via robust K-way union. Visual Computer, 2012, 28, 401-412.	3.5	1
90	Congressional districts: How â€œequalâ€•are they?. Geo Journal, 2020, 85, 303-327.	3.1	1

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91	Exploring different dimensions in defining the Alabama Black Belt. Geo Journal, 2020, , 1.	3.1	1
92	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.	2.2	1
93	Environmental and Related Applications. , 2010, , 303-349.		1
94	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.	3.0	0
95	Interval and Placement Effects on Topographic Data: Using Viewshed Analysis as An Example. Annals of GIS, 2001, 7, 53-65.	3.1	0
96	City-scale urban transport and dispersion simulation using geographic information system footprints. , 2012, , .		0
97	Transport and dispersion simulation in downtown Oklahoma City and New York City. , 2012, , .		0
98	An interactive mapping system incorporating data reliability information. , 2015, , .		0
99	Thomas, Richard K.: Concepts, Methods and Practical Applications in Applied Demography: An Introductory Text. Spatial Demography, 2019, 7, 103-104.	0.9	0
100	Exploratory multivariate spaceâ€“time analysis of colonial justice in Hong Kong during 1900â€“1930. Geo Journal, 2021, 86, 255-279.	3.1	0
101	A Framework for Using Geographic Information Systems Technology for Environmental Risk Assessment. Journal of Children S Health, 2003, 1, 215-227.	0.3	0
102	Spatial Data Analysis and Geoinformation Extraction. , 2010, , 145-203.		0
103	Advanced Geoinformation Science. , 2010, , 1-15.		0