## Tzai-Hung Wen

List of Publications by Year in descending order

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72 papers

1,361 citations

20 h-index 395702 33 g-index

74 all docs

74 docs citations

74 times ranked 1828 citing authors

#	Article	IF	CITATIONS
1	Using Geographically Weighted Regression (GWR) to Explore Spatial Varying Relationships of Immature Mosquitoes and Human Densities with the Incidence of Dengue. International Journal of Environmental Research and Public Health, 2011, 8, 2798-2815.	2.6	127
2	The Role of Imported Cases and Favorable Meteorological Conditions in the Onset of Dengue Epidemics. PLoS Neglected Tropical Diseases, 2010, 4, e775.	3.0	86
3	Spatial mapping of temporal risk characteristics to improve environmental health risk identification: A case study of a dengue epidemic in Taiwan. Science of the Total Environment, 2006, 367, 631-640.	8.0	66
4	The effects of border control and quarantine measures on the spread of COVID-19. Epidemics, 2020, 32, 100397.	3.0	64
5	Two Clustering Diffusion Patterns Identified from the 2001–2003 Dengue Epidemic, Kaohsiung, Taiwan. American Journal of Tropical Medicine and Hygiene, 2008, 79, 344-352.	1.4	54
6	An Air Quality Monitoring System for Urban Areas Based on the Technology of Wireless Sensor Networks. International Journal on Smart Sensing and Intelligent Systems, 2012, 5, 191-214.	0.7	48
7	Population Movement and Vector-Borne Disease Transmission: Differentiating Spatial–Temporal Diffusion Patterns of Commuting and Noncommuting Dengue Cases. Annals of the American Association of Geographers, 2012, 102, 1026-1037.	3.0	45
8	Spatial–temporal patterns of dengue in areas at risk of dengue hemorrhagic fever in Kaohsiung, Taiwan, 2002. International Journal of Infectious Diseases, 2010, 14, e334-e343.	3.3	42
9	Identifying geographical variations in poverty-obesity relationships: empirical evidence from Taiwan. Geospatial Health, 2010, 4, 257.	0.8	40
10	The effects of seasonal climate variability on dengue annual incidence in Hong Kong: A modelling study. Scientific Reports, 2020, 10, 4297.	3.3	39
11	Geographically Modified PageRank Algorithms: Identifying the Spatial Concentration of Human Movement in a Geospatial Network. PLoS ONE, 2015, 10, e0139509.	2.5	36
12	A computer virus spreading model based on resource limitations and interaction costs. Journal of Systems and Software, 2013, 86, 801-808.	4.5	34
13	Understanding the topological characteristics and flow complexity of urban traffic congestion. Physica A: Statistical Mechanics and Its Applications, 2017, 473, 166-177.	2.6	34
14	A Dengue Vector Surveillance by Human Population-Stratified Ovitrap Survey for & lt;l>Aedes (Diptera: Culicidae) Adult and Egg Collections in High Dengue-Risk Areas of Taiwan. Journal of Medical Entomology, 2013, 50, 261-269.	1.8	32
15	Developed urban air quality monitoring system based on wireless sensor networks. , 2011, , .		30
16	Incorporating the human-Aedes mosquito interactions into measuring the spatial risk of urban dengue fever. Applied Geography, 2015, 62, 256-266.	3.7	30
17	Association between the First Occurrence of Asthma and Residential Greenness in Children and Teenagers in Taiwan. International Journal of Environmental Research and Public Health, 2019, 16, 2076.	2.6	27
18	Two clustering diffusion patterns identified from the 2001-2003 dengue epidemic, Kaohsiung, Taiwan. American Journal of Tropical Medicine and Hygiene, 2008, 79, 344-52.	1.4	27

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19	Optimizing locations for the installation of automated external defibrillators (AEDs) in urban public streets through the use of spatial and temporal weighting schemes. Applied Geography, 2012, 35, 394-404.	3.7	26
20	Spatially Adjusted Time-varying Reproductive Numbers: Understanding the Geographical Expansion of Urban Dengue Outbreaks. Scientific Reports, 2019, 9, 19172.	3.3	24
21	Optimal Installation Locations for Automated External Defibrillators in Taipei 7-Eleven Stores: Using GIS and a Genetic Algorithm with a New Stirring Operator. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-12.	1.3	22
22	Prediction of annual dengue incidence by hydro-climatic extremes for southern Taiwan. International Journal of Biometeorology, 2019, 63, 259-268.	3.0	22
23	Socio-spatial patterns of neighborhood effects on adult obesity in Taiwan: A multi-level model. Social Science and Medicine, 2010, 70, 823-833.	3.8	21
24	Inter- and intra-host sequence diversity reveal the emergence of viral variants during an overwintering epidemic caused by dengue virus serotype 2 in southern Taiwan. PLoS Neglected Tropical Diseases, 2018, 12, e0006827.	3.0	19
25	GIS-based biomass resource utilization for rice straw cofiring in the Taiwanese power market. Energy, 2013, 55, 354-360.	8.8	18
26	Extracting urban water bodies from high-resolution radar images: Measuring the urban surface morphology to control for radar's double-bounce effect. International Journal of Applied Earth Observation and Geoinformation, 2020, 85, 102003.	2.8	18
27	A Novel Private Attitude and Public Opinion Dynamics Model for Simulating Pluralistic Ignorance and Minority Influence. Jasss, 2014, 17, .	1.8	18
28	Characterizing Diffusion Dynamics of Disease Clustering: A Modified Space–Time DBSCAN (MST-DBSCAN) Algorithm. Annals of the American Association of Geographers, 2018, 108, 1168-1186.	2.2	17
29	Elucidating the changing socio-spatial dynamics of neighborhood effects on adult obesity risk in Taiwan from 2001 to 2005. Health and Place, 2010, 16, 1248-1258.	3.3	15
30	Spatial Dependency of Tuberculosis Incidence in Taiwan. PLoS ONE, 2012, 7, e50740.	2.5	15
31	Monitoring Street-Level Spatial-Temporal Variations of Carbon Monoxide in Urban Settings Using a Wireless Sensor Network (WSN) Framework. International Journal of Environmental Research and Public Health, 2013, 10, 6380-6396.	2.6	15
32	A Probabilistic Spatial Dengue Fever Risk Assessment by a Threshold-Based-Quantile Regression Method. PLoS ONE, 2014, 9, e106334.	<b>2.</b> 5	15
33	Indigenous Wildlife Rabies in Taiwan: Ferret Badgers, a Long Term Terrestrial Reservoir. BioMed Research International, 2017, 2017, 1-6.	1.9	14
34	EpiRank: Modeling Bidirectional Disease Spread in Asymmetric Commuting Networks. Scientific Reports, 2019, 9, 5415.	3.3	14
35	Integrating epidemic dynamics with daily commuting networks: building a multilayer framework to assess influenza A (H1N1) intervention policies. Simulation, 2011, 87, 385-405.	1.8	13
36	The spatio-temporal characteristics of potential dengue risk assessed by Aedes aegypti and Aedes albopictus in high-epidemic areas. Stochastic Environmental Research and Risk Assessment, 2016, 30, 2057-2066.	4.0	13

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37	The effect of preventing subclinical transmission on the containment of COVID-19: Mathematical modeling and experience in Taiwan. Contemporary Clinical Trials, 2020, 96, 106101.	1.8	12
38	A Network-based Simulation Architecture for Studying Epidemic Dynamics. Simulation, 2010, 86, 351-368.	1.8	11
39	Analysis of biomass co-firing systems in Taiwan power markets using linear complementarity models. Energy Policy, 2011, 39, 4594-4600.	8.8	10
40	Evaluating the role of disease importation in the spatiotemporal transmission of indigenous dengue outbreak. Applied Geography, 2016, 76, 137-146.	3.7	10
41	Evaluating neighborhood structures for modeling intercity diffusion of large-scale dengue epidemics. International Journal of Health Geographics, 2018, 17, 9.	2.5	10
42	Identifying low-PM2.5 exposure commuting routes for cyclists through modeling with the random forest algorithm based on low-cost sensor measurements in three Asian cities. Environmental Pollution, 2022, 294, 118597.	7.5	10
43	Delayed Treatment of Diagnosed Pulmonary Tuberculosis in Taiwan. BMC Public Health, 2008, 8, 236.	2.9	9
44	Revisiting the role of rainfall variability and its interactive effects with the built environment in urban dengue outbreaks. Applied Geography, 2018, 101, 14-22.	3.7	9
45	The impact of the COVID-19 pandemic on O-D flow and airport networks in the origin country and in Northeast Asia. Journal of Air Transport Management, 2022, 100, 102192.	4.5	9
46	Temporal changes in geographical disparities in alcohol-attributed disease mortality before and after implementation of the alcohol tax policy in Taiwan. BMC Public Health, 2012, 12, 889.	2.9	8
47	Real-time dengue forecast for outbreak alerts in Southern Taiwan. PLoS Neglected Tropical Diseases, 2020, 14, e0008434.	3.0	8
48	A geo-computational algorithm for exploring the structure of diffusion progression in time and space. Scientific Reports, 2017, 7, 12565.	3.3	7
49	FLUed: A Novel Four-Layer Model for Simulating Epidemic Dynamics and Assessing Intervention Policies. Journal of Applied Mathematics, 2013, 2013, 1-20.	0.9	6
50	Prevalence of antibodies against Ehrlichia spp. and Orientia tsutsugamushi in small mammals around harbors in Taiwan. Parasites and Vectors, 2016, 9, 45.	2.5	6
51	An Alternative Body Temperature Measurement Solution: Combination of a Highly Accurate Monitoring System and a Visualized Public Health Cloud Platform. IEEE Internet of Things Journal, 2021, 8, 5778-5793.	8.7	6
52	Application of a reliable MAC protocol for the urban air quality monitoring system based on the wireless sensor network. , 2012, , .		5
53	A GIS-based framework of regional irrigation water demand assessment. Paddy and Water Environment, 2004, 2, 33-39.	1.8	4
54	Differentiating geographic patterns of human immunodeficiency virus (HIV) infection with different risk factors in northern Taiwan: 1997–2008. Applied Geography, 2011, 31, 519-524.	3.7	4

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55	Incorporation of Spatial Interactions in Location Networks to Identify Critical Geo-Referenced Routes for Assessing Disease Control Measures on a Large-Scale Campus. International Journal of Environmental Research and Public Health, 2015, 12, 4170-4184.	2.6	4
56	A Location-Based Client-Server Framework for Assessing Personal Exposure to the Transmission Risks of Contagious Diseases. Human Dynamics in Smart Cities, 2018, , 133-148.	0.2	4
57	Mobile Measurement of Particulate Matter Concentrations on Urban Streets: System Development and Field Verification. IEEE Access, 2020, 8, 197617-197629.	4.2	4
58	Regionalization for infection control: An algorithm for delineating containment zones considering the regularity of human mobility. Applied Geography, 2021, 126, 102375.	3.7	4
59	Analysis of Spatial Scenarios Aiding Decision Making for Regional Irrigation Water-Demand Planning. Journal of Irrigation and Drainage Engineering - ASCE, 2007, 133, 455-467.	1.0	3
60	A spatial aggregation index for effective fallow decision in paddy irrigation demand planning. Paddy and Water Environment, 2012, 10, 31-39.	1.8	3
61	Revisiting the Effects of High-Speed Railway Transfers in the Early COVID-19 Cross-Province Transmission in Mainland China. International Journal of Environmental Research and Public Health, 2021, 18, 6394.	2.6	3
62	Urban Area PM <inf> 2.5</inf> Prediction with Machine Methods: An On-Board Monitoring System. , 2018, , .		2
63	A Mathematical Model for Evaluating the Medical Resource Availability of COVID-19 in Time and Space. Human Dynamics in Smart Cities, 2021, , 295-308.	0.2	2
64	Analyzing the Patterns of Space-Time Distances for Tracking the Diffusion of an Epidemic. , $2015$ , , $269-282$ .		2
65	A multilayer epidemic simulation framework integrating geographic information system with traveling networks. , $2010$ , , .		1
66	Spatially Characterizing Major Airline Alliances: A Network Analysis. ISPRS International Journal of Geo-Information, $2021,10,37.$	2.9	1
67	Link Structure Analysis of Urban Street Networks for Delineating Traffic Impact Areas. Advances in Dynamics, Patterns, Cognition, 2017, , 203-220.	0.3	1
68	A Spatial-Temporal Approach to Differentiate Epidemic Risk Patterns. Lecture Notes in Geoinformation and Cartography, 2007, , 214-227.	1.0	1
69	Assessment of the fatality rate and transmissibility taking account of undetected cases during an unprecedented COVID-19 surge in Taiwan. BMC Infectious Diseases, 2022, 22, 271.	2.9	1
70	Elucidating how the red imported fire ant ( <i>Solenopsis invicta</i> ) diffused spatiotemporally among different landscapes in north Taiwan, 2008‰2015. Ecology and Evolution, 2021, 11, 18604-18614.	1.9	1
71	Potential Effects of Climate Changes on Dengue Transmission: A Review of Empirical Evidences from Taiwan. Advances in Asian Human-Environmental Research, 2016, , 269-281.	1.0	0
72	Detecting tuberculosis clusters in urban neighborhoods, Taipei, Taiwan: Linking geographic and genotyping evidence. Applied Geography, 2019, 104, 56-64.	3.7	0