

Hsi-Hsien Wei

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

430
citations

11
h-index

18
g-index

50
ext. papers

646
ext. citations

4.7
avg, IF

4.61
L-index

#	Paper	IF	Citations
49	Dynamic emergency inspection routing and restoration scheduling to enhance the post-earthquake resilience of a highwayBridge network. <i>Reliability Engineering and System Safety</i> , 2022 , 220, 108282	6.3	1
48	Real-time prediction of structural fire responses: A finite element-based machine-learning approach. <i>Automation in Construction</i> , 2022 , 136, 104165	9.6	0
47	Dove Swarm Optimization Algorithm. <i>IEEE Access</i> , 2022 , 10, 46690-46696	3.5	1
46	Integrated Building Maintenance and Safety Framework: Educational and Public Facilities Case Study. <i>Buildings</i> , 2022 , 12, 770	3.2	3
45	Disaggregated validation of disaster-resilience indicators using household survey data: A case study of Hong Kong. <i>Sustainable Cities and Society</i> , 2021 , 67, 102726	10.1	8
44	Towards people-centric smart city development: Investigating the citizens' preferences and perceptions about smart-city services in Taiwan. <i>Sustainable Cities and Society</i> , 2021 , 67, 102691	10.1	21
43	Learn Curve for Precast Component Productivity in Construction. <i>International Journal of Civil Engineering</i> , 2021 , 19, 1179-1194	1.9	0
42	Risk-based resilience concentration assessment of community to seismic hazards. <i>Natural Hazards</i> , 2021 , 108, 1731-1751	3	3
41	Building information modeling (BIM), System dynamics (SD), and Agent-based modeling (ABM): Towards an integrated approach. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 4261-4261	4.4	9
40	Sustainable Corporate Governance: The Impact Factors for Top Consulting Engineering Companies in Taiwan. <i>Sustainability</i> , 2021 , 13, 7604	3.6	1
39	Understanding innovation diffusion and adoption strategies in megaproject networks through a fuzzy system dynamic model. <i>Frontiers of Engineering Management</i> , 2021 , 8, 32-47	2.7	6
38	Modeling Interaction of Emergency Inspection Routing and Restoration Scheduling for Postdisaster Resilience of HighwayBridge Networks. <i>Journal of Infrastructure Systems</i> , 2021 , 27, 04020046	2.9	8
37	A risk-sharing-based resilient renewable energy supply network model under the COVID-19 pandemic. <i>Sustainable Production and Consumption</i> , 2021 , 25, 484-498	8.2	11
36	Development of vulnerability curves of buildings to windstorms using insurance data: An empirical study in South Korea. <i>Journal of Building Engineering</i> , 2021 , 34, 101932	5.2	1
35	Determining Worker Training Time for Precast Component Production in Construction: Empirical Study in Taiwan. <i>Journal of Construction Engineering and Management - ASCE</i> , 2021 , 147, 05020023	4.2	4
34	Influence of Occupant Behavior for Building Energy Conservation: A Systematic Review Study of Diverse Modeling and Simulation Approach. <i>Buildings</i> , 2021 , 11, 41	3.2	11
33	Swarm-inspired data-driven approach for housing market segmentation: a case study of Taipei city. <i>Journal of Housing and the Built Environment</i> , 2021 , 36, 1787	2	1

32	Estimation of the non-exceedance probability of extreme storm surges in South Korea using tidal-gauge data. <i>Natural Hazards and Earth System Sciences</i> , 2021 , 21, 2611-2631	3.9	1
31	Psychological Drivers of Hotel Guests' Energy-Saving Behaviours: Empirical Research Based on the Extended Theory of Planned Behaviour. <i>Buildings</i> , 2021 , 11, 401	3.2	2
30	COVID-19: Government subsidy models for sustainable energy supply with disruption risks. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 150, 111425	16.2	7
29	Identifying critical building-oriented features in city-block-level building energy consumption: A data-driven machine learning approach. <i>Applied Energy</i> , 2021 , 301, 117453	10.7	4
28	Expediting Life Cycle Cost Analysis of Infrastructure Assets under Multiple Uncertainties by Deep Neural Networks. <i>Journal of Management in Engineering - ASCE</i> , 2021 , 37, 04021059	5.3	2
27	Smart training: Mask R-CNN oriented approach. <i>Expert Systems With Applications</i> , 2021 , 185, 115595	7.8	1
26	Smart Living: An Interactive Control System for Household Appliances. <i>IEEE Access</i> , 2021 , 9, 14897-14904	3.5	1
25	Psychological and Demographic Factors Affecting Household Energy-Saving Intentions: A TPB-Based Study in Northwest China. <i>Sustainability</i> , 2020 , 12, 836	3.6	27
24	ESTABLISHING DYNAMIC IMPACT FUNCTION FOR HOUSE PRICING BASED ON SURRENDERING MULTI-ATTRIBUTES: EVIDENCE FROM TAIPEI CITY, TAIWAN. <i>International Journal of Strategic Property Management</i> , 2020 , 24, 119-129	1.9	1
23	A practical approach to determining critical macroeconomic factors in air-traffic volume based on K-means clustering and decision-tree classification. <i>Journal of Air Transport Management</i> , 2020 , 82, 101743	5.1	8
22	Exploring the Energy-Saving Personality Traits in the Office and Household Situation: An Empirical Study. <i>Energies</i> , 2020 , 13, 3535	3.1	6
21	Assessment of Terrorism Risk to Critical Infrastructures: The Case of a Power-Supply Substation. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7162	2.6	0
20	Confidence in authorities, neighborhood cohesion and natural hazards preparedness in Taiwan. <i>International Journal of Disaster Risk Reduction</i> , 2019 , 40, 101265	4.5	12
19	Automatic Object-Detection of School Building Elements in Visual Data: A Gray-Level Histogram Statistical Feature-Based Method. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3915	2.6	1
18	Post-disaster Psychosocial Capacity Building for Women in a Chinese Rural Village. <i>International Journal of Disaster Risk Science</i> , 2019 , 10, 193-203	4.6	4
17	Development of a Data-Mining Technique for Regional-Scale Evaluation of Building Seismic Vulnerability. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1502	2.6	8
16	Integrated Communication, Control, and Command of Construction Safety and Quality. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019 , 145, 04019051	4.2	12
15	UNDERSTANDING THE EFFECT OF CO-WORKER SUPPORT ON CONSTRUCTION SAFETY PERFORMANCE FROM THE PERSPECTIVE OF RISK THEORY: AN AGENT-BASED MODELING APPROACH. <i>Journal of Civil Engineering and Management</i> , 2019 , 25, 132-144	3	4

14	A Solid Oxide Fuel Cell (SOFC)-Based Biogas-from-Waste Generation System for Residential Buildings in China: A Feasibility Study. <i>Sustainability</i> , 2018 , 10, 2395	3.6	12
13	OPTIMIZATION OF LIFE-CYCLE COST OF RETROFITTING SCHOOL BUILDINGS UNDER SEISMIC RISK USING EVOLUTIONARY SUPPORT VECTOR MACHINE. <i>Technological and Economic Development of Economy</i> , 2018 , 24, 812-824	4.7	1
12	Modeling occupancy distribution in large building spaces for HVAC energy efficiency. <i>Energy Procedia</i> , 2018 , 152, 1230-1235	2.3	3
11	Energy conservation through flexible HVAC management in large spaces: An IPS-based demand-driven control (IDC) system. <i>Automation in Construction</i> , 2017 , 83, 91-107	9.6	18
10	PUBLIC-PRIVATE PARTNERSHIP FOR EARTHQUAKE MITIGATION INVOLVING RETROFIT AND INSURANCE. <i>Technological and Economic Development of Economy</i> , 2017 , 23, 810-826	4.7	3
9	Lifecycle Environmental Performance of Natural-Hazard Mitigation for Buildings. <i>Journal of Performance of Constructed Facilities</i> , 2016 , 30, 04015042	2	23
8	Conflict and consensus in stakeholder attitudes toward sustainable transport projects in China: An empirical investigation. <i>Habitat International</i> , 2016 , 53, 473-484	4.6	22
7	Assessing the Lifecycle Sustainability Costs and Benefits of Seismic Mitigation Designs for Buildings. <i>Journal of Architectural Engineering</i> , 2016 , 22, 04015011	1.5	31
6	Prioritizing Sustainable Transport Projects through Multicriteria Group Decision Making: Case Study of Tianjin Binhai New Area, China. <i>Journal of Management in Engineering - ASCE</i> , 2016 , 32, 04016010	5.3	8
5	Assessment of Casualty and Economic Losses from Earthquakes Using Semi-empirical Model. <i>Procedia Engineering</i> , 2015 , 123, 599-605		10
4	Economic Feasibility Analysis of Pre-earthquake Strengthening of Buildings in a Moderate Seismicity / High Vulnerability Area. <i>Procedia Economics and Finance</i> , 2014 , 18, 143-150		3
3	Benefit-Cost Analysis of the Seismic Risk Mitigation for a Region with Moderate Seismicity: The Case of Tiberias, Israel. <i>Procedia Engineering</i> , 2014 , 85, 536-542		6
2	Modeling building occupant network energy consumption decision-making: The interplay between network structure and conservation. <i>Energy and Buildings</i> , 2012 , 47, 515-524	7	99
1	Assessment of post-earthquake resilience of highwayBridge networks by considering downtime due to interaction of parallel restoration actions. <i>Structure and Infrastructure Engineering</i> , 1-17	2.9	1