

Hsi-Hsien Wei

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

853
citations

471477

17
h-index

526264

27
g-index

50
all docs

50
docs citations

50
times ranked

672
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling building occupant network energy consumption decision-making: The interplay between network structure and conservation. <i>Energy and Buildings</i> , 2012, 47, 515-524.	6.7	114
2	Psychological and Demographic Factors Affecting Household Energy-Saving Intentions: A TPB-Based Study in Northwest China. <i>Sustainability</i> , 2020, 12, 836.	3.2	63
3	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.	10.4	61
4	Assessing the Lifecycle Sustainability Costs and Benefits of Seismic Mitigation Designs for Buildings. <i>Journal of Architectural Engineering</i> , 2016, 22, .	1.6	45
5	Lifecycle Environmental Performance of Natural-Hazard Mitigation for Buildings. <i>Journal of Performance of Constructed Facilities</i> , 2016, 30, .	2.0	32
6	Conflict and consensus in stakeholder attitudes toward sustainable transport projects in China: An empirical investigation. <i>Habitat International</i> , 2016, 53, 473-484.	5.8	29
7	Influence of Occupant Behavior for Building Energy Conservation: A Systematic Review Study of Diverse Modeling and Simulation Approach. <i>Buildings</i> , 2021, 11, 41.	3.1	28
8	Integrated Communication, Control, and Command of Construction Safety and Quality. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019, 145, .	3.8	26
9	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.	11.0	26
10	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.	9.8	24
11	Building information modeling (BIM), System dynamics (SD), and Agent-based modeling (ABM): Towards an integrated approach. <i>Ain Shams Engineering Journal</i> , 2021, 12, 4261-4274.	6.1	24
12	Confidence in authorities, neighborhood cohesion and natural hazards preparedness in Taiwan. <i>International Journal of Disaster Risk Reduction</i> , 2019, 40, 101265.	3.9	22
13	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.	6.1	22
14	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.	10.1	22
15	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.	10.4	20
16	Psychological Drivers of Hotel Guests' Energy-Saving Behaviours: Empirical Research Based on the Extended Theory of Planned Behaviour. <i>Buildings</i> , 2021, 11, 401.	3.1	20
17	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.	3.2	18
18	COVID-19: Government subsidy models for sustainable energy supply with disruption risks. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111425.	16.4	18

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19	Real-time prediction of structural fire responses: A finite element-based machine-learning approach. <i>Automation in Construction</i> , 2022, 136, 104165.	9.8	18
20	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.	4.5	14
21	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, .	4.8	13
22	Dynamic emergency inspection routing and restoration scheduling to enhance the post-earthquake resilience of a highwayâ€“bridge network. <i>Reliability Engineering and System Safety</i> , 2022, 220, 108282.	8.9	13
23	Development of a Data-Mining Technique for Regional-Scale Evaluation of Building Seismic Vulnerability. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1502.	2.5	12
24	Exploring the â€œEnergy-Saving Personality Traitsâ€“in the Office and Household Situation: An Empirical Study. <i>Energies</i> , 2020, 13, 3535.	3.1	12
25	Modeling Interaction of Emergency Inspection Routing and Restoration Scheduling for Postdisaster Resilience of Highwayâ€“Bridge Networks. <i>Journal of Infrastructure Systems</i> , 2021, 27, 04020046.	1.8	12
26	Assessment of Casualty and Economic Losses from Earthquakes Using Semi-empirical Model. <i>Procedia Engineering</i> , 2015, 123, 599-605.	1.2	11
27	Post-disaster Psychosocial Capacity Building for Women in a Chinese Rural Village. <i>International Journal of Disaster Risk Science</i> , 2019, 10, 193-203.	2.9	11
28	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.	3.5	11
29	Dove Swarm Optimization Algorithm. <i>IEEE Access</i> , 2022, 10, 46690-46696.	4.2	11
30	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, .	4.8	10
31	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, .	3.8	9
32	Integrated Building Maintenance and Safety Framework: Educational and Public Facilities Case Study. <i>Buildings</i> , 2022, 12, 770.	3.1	9
33	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.	1.2	7
34	Modeling occupancy distribution in large building spaces for HVAC energy efficiency. <i>Energy Procedia</i> , 2018, 152, 1230-1235.	1.8	7
35	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.	3.6	7
36	Assessment of Terrorism Risk to Critical Infrastructures: The Case of a Power-Supply Substation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7162.	2.5	5

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37	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.	3.4	5
38	Risk-based resilience concentration assessment of community to seismic hazards. <i>Natural Hazards</i> , 2021, 108, 1731-1751.	3.4	5
39	Assessment of post-earthquake resilience of highway“bridge networks by considering downtime due to interaction of parallel restoration actions. <i>Structure and Infrastructure Engineering</i> , 2023, 19, 589-605.	3.7	5
40	Smart training: Mask R-CNN oriented approach. <i>Expert Systems With Applications</i> , 2021, 185, 115595.	7.6	5
41	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.	0.6	4
42	PUBLIC-PRIVATE PARTNERSHIP FOR EARTHQUAKE MITIGATION INVOLVING RETROFIT AND INSURANCE. <i>Technological and Economic Development of Economy</i> , 2017, 23, 810-826.	4.6	4
43	Learn Curve for Precast Component Productivity in Construction. <i>International Journal of Civil Engineering</i> , 2021, 19, 1179-1194.	2.0	4
44	Smart Living: An Interactive Control System for Household Appliances. <i>IEEE Access</i> , 2021, 9, 14897-14904.	4.2	4
45	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.	1.8	3
46	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.	4.6	3
47	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.	2.5	2
48	Sustainable Corporate Governance: The Impact Factors for Top Consulting Engineering Companies in Taiwan. <i>Sustainability</i> , 2021, 13, 7604.	3.2	2
49	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.	1.8	1
50	Building Layout Influence on Occupant’s Energy Consumption Behaviour: An Agent-Based Modeling Approach. , 2022, 15, .		0