Shu-Chien Hsu

List of Publications by Citations

69 papers	**1,423** citations
24 h-index	**36** g-index
75 ext. papers	**1,873** ext. citations
7.6 avg, IF	**5.37** L-index

#	Paper	IF	Citations
69	Proactive behavior-based safety management for construction safety improvement. *Safety Science*, **2015**, 75, 107-117	5.8	186
68	Extended theory of planned behaviour for promoting construction waste recycling in Hong Kong. *Waste Management*, **2019**, 83, 161-170	8.6	73
67	Improving the sustainability of integrated transportation system with bike-sharing: A spatial agent-based approach. *Sustainable Cities and Society*, **2018**, 41, 44-51	10.1	59
66	Understanding the relationship between safety investment and safety performance of construction projects through agent-based modeling. *Accident Analysis and Prevention*, **2016**, 94, 8-17	6.1	58
65	Understanding the relationships between environmental management practices and financial performances of multinational construction firms. *Journal of Cleaner Production*, **2016**, 139, 750-760	10.3	53
64	Water energy nexus in city and hinterlands: Multi-regional physical input-output analysis for Hong Kong and South China. *Applied Energy*, **2018**, 225, 986-997	10.7	50
63	Life-cycle assessment on food waste valorisation to value-added products. *Journal of Cleaner Production*, **2018**, 199, 840-848	10.3	47
62	Hybrid ANN-CBR model for disputed change orders in construction projects. *Automation in Construction*, **2007**, 17, 56-64	9.6	46
61	Life-cycle cost-benefit analysis on sustainable food waste management: The case of Hong Kong International Airport. *Journal of Cleaner Production*, **2018**, 187, 751-762	10.3	44
60	Quantifying potential anthropogenic resources of buildings through hot spot analysis. *Resources, Conservation and Recycling*, **2018**, 133, 10-20	11.9	40
59	The linkages between internationalization and environmental strategies of multinational construction firms. *Journal of Cleaner Production*, **2016**, 116, 207-216	10.3	38
58	Promoting food waste recycling in the commercial and industrial sector by extending the Theory of Planned Behaviour: A Hong Kong case study. *Journal of Cleaner Production*, **2018**, 204, 1034-1043	10.3	37
57	Renewable energy microgrids: Economic evaluation and decision making for government policies to contribute to affordable and clean energy. *Applied Energy*, **2020**, 274, 115287	10.7	35
56	Comparative life cycle assessment of warm mix technologies in asphalt rubber pavements with uncertainty analysis. *Resources, Conservation and Recycling*, **2019**, 147, 137-144	11.9	33
55	FORECASTING SPATIAL DYNAMICS OF THE HOUSING MARKET USING SUPPORT VECTOR MACHINE. *International Journal of Strategic Property Management*, **2017**, 21, 273-283	1.9	33
54	Multiagent Spatial Simulation of Autonomous Taxis for Urban Commute: Travel Economics and Environmental Impacts. *Journal of the Urban Planning and Development Division, ASCE*, **2018**, 144, 04018033	2.2	31
53	A self organizing map optimization based image recognition and processing model for bridge crack inspection. *Automation in Construction*, **2017**, 73, 58-66	9.6	31

52	A system dynamics approach to determine construction waste disposal charge in Hong Kong. *Journal of Cleaner Production*, **2019**, 241, 118309	10.3	30
51	Considering user behavior in free-floating bike sharing system design: A data-informed spatial agent-based model. *Sustainable Cities and Society*, **2019**, 49, 101567	10.1	29
50	Organizational Citizenship Behavior in Construction Megaprojects. *Journal of Management in Engineering - ASCE*, **2018**, 34, 04018017	5.3	29
49	Understanding the complexity of project team member selection through agent-based modeling. *International Journal of Project Management*, **2016**, 34, 82-93	7.6	28
48	How energy service companies moderate the impact of industrialization and urbanization on carbon emissions in China?. *Science of the Total Environment*, **2021**, 751, 141610	10.2	28
47	Towards a safety management approach for adjacent buildings in tunneling environments: Case study in China. *Building and Environment*, **2014**, 75, 222-235	6.5	27
46	Eco-efficiency analysis of non-potable water systems in domestic buildings. *Applied Energy*, **2017**, 202, 293-307	10.7	26
45	Evaluating efficiency of energy conservation measures in energy service companies in China. *Energy Policy*, **2018**, 122, 580-591	7.2	23
44	Carbon sequestration potential via energy harvesting from agricultural biomass residues in Mekong River basin, Southeast Asia. *Renewable and Sustainable Energy Reviews*, **2017**, 68, 1051-1062	16.2	21
43	Life cycle assessment and energy payback time of a standalone hybrid renewable energy commercial microgrid: A case study of Town Island in Hong Kong. *Applied Energy*, **2019**, 250, 760-775	10.7	20
42	Classifying Influential Information to Discover Rule Sets for Project Disputes and Possible Resolutions. *International Journal of Project Management*, **2016**, 34, 1706-1716	7.6	18
41	Hybrid Machine Learning System to Forecast Electricity Consumption of Smart Grid-Based Air Conditioners. *IEEE Systems Journal*, **2019**, 13, 3120-3128	4.3	17
40	Eco-efficiency analysis of sludge treatment scenarios in urban cities: the case of Hong Kong. *Journal of Cleaner Production*, **2016**, 112, 3028-3039	10.3	17
39	Exploring spatial patterns of carbon dioxide emission abatement via energy service companies in China. *Resources, Conservation and Recycling*, **2018**, 137, 145-155	11.9	16
38	Deep neural network based framework for complex correlations in engineering metrics. *Advanced Engineering Informatics*, **2020**, 44, 101058	7.4	13
37	Knowledge Management for Risk Hedging by Construction Material Suppliers. *Journal of Management in Engineering - ASCE*, **2012**, 28, 273-280	5.3	13
36	Quantifying Impact Factors of Corporate Financing: Engineering Consulting Firms. *Journal of Management in Engineering - ASCE*, **2008**, 24, 96-104	5.3	13
35	Corporate environmental performance prediction in China: An empirical study of energy service companies. *Journal of Cleaner Production*, **2020**, 266, 121395	10.3	12

34	Detecting corporate misconduct through random forest in China's construction industry. *Journal of Cleaner Production*, **2020**, 268, 122266	10.3	12
33	The antecedents of safety leadership: The job demands-resources model. *Safety Science*, **2021**, 133, 104979	5.8	12
32	Integrated life-cycle data envelopment analysis for techno-environmental performance evaluation on sludge-to-energy systems. *Applied Energy*, **2020**, 266, 114867	10.7	11
31	Improving Hedging Decisions for Financial Risks of Construction Material Suppliers Using Grey System Theory. *Journal of Management in Engineering - ASCE*, **2017**, 33, 04017016	5.3	9
30	Spatial Agent-Based Model for Environmental Assessment of Passenger Transportation. *Journal of the Urban Planning and Development Division, ASCE*, **2017**, 143, 04017016	2.2	8
29	Exploring the association rules of work activities for producing precast components. *Automation in Construction*, **2020**, 111, 103059	9.6	8
28	Structural analysis of the relationships between implementing tasks and ex-post effectiveness for disaster mitigation practice in Taipei City. *Sustainable Cities and Society*, **2017**, 34, 1-11	10.1	7
27	A Standardized Stoichiometric Life-Cycle Inventory for Enhanced Specificity in Environmental Assessment of Sewage Treatment. *Environmental Science & Technology*, **2019**, 53, 5111-5123	10.3	5
26	Beyond Energy Balance: Environmental Trade-Offs of Organics Capture and Low Carbon-to-Nitrogen Ratio Sewage Treatment Systems. *Environmental Science & Technology*, **2020**, 54, 4746-4757	10.3	4
25	Board Structure and Directors' Role in Preventing Corporate Misconduct in the Construction Industry. *Journal of Management in Engineering - ASCE*, **2018**, 34, 04017067	5.3	4
24	A hybrid material flow analysis for quantifying multilevel anthropogenic resources. *Journal of Industrial Ecology*, **2019**, 23, 1456-1469	7.2	4
23	Determining and Classifying Factors of Employees' Expatriation Willingness Using Rough Set Theory. *Journal of Management in Engineering - ASCE*, **2014**, 30, 04014021	5.3	4
22	Web-based real time bridge scour monitoring system for disaster management. *Baltic Journal of Road and Bridge Engineering*, **2014**, 9, 17-25	0.9	4
21	Group-Level Safety Climate in the Construction Industry: Influence of Organizational, Group, and Individual Factors. *Journal of Management in Engineering - ASCE*, **2022**, 38,	5.3	4
20	A cross-region analysis of commercial food waste recycling behaviour. *Chemosphere*, **2021**, 274, 129750	8.4	4
19	SUCCESS FACTORS FOR TAIWANESE CONTRACTORS COLLABORATING WITH LOCAL CHINESE CONTRACTORS IN CONSTRUCTION PROJECTS. *Journal of Business Economics and Management*, **2016**, 17, 1007-1021	2	4
18	A socio-eco-efficiency analysis of water and wastewater treatment processes for refugee communities in Jordan. *Resources, Conservation and Recycling*, **2021**, 164, 105196	11.9	4
17	Determining Worker Training Time for Precast Component Production in Construction: Empirical Study in Taiwan. *Journal of Construction Engineering and Management - ASCE*, **2021**, 147, 05020023	4.2	4

LIST OF PUBLICATIONS

#	Title	Impact	Citations
16	An open-source and extensible platform for general infrastructure asset management system. *Automation in Construction*, **2021**, 127, 103692	9.6	4
15	Identifying critical building-oriented features in city-block-level building energy consumption: A data-driven machine learning approach. *Applied Energy*, **2021**, 301, 117453	10.7	4
14	A dimensional model for describing and differentiating project teams. *International Journal of Project Management*, **2017**, 35, 1052-1065	7.6	3
13	Quantifying cost-effectiveness of subsurface strata exploration in excavation projects through geostatistics and spatial tessellation. *Automation in Construction*, **2018**, 90, 243-252	9.6	3
12	Assessing effects of economic factors on construction cost estimation using deep neural networks. *Automation in Construction*, **2022**, 134, 104080	9.6	3
11	Corporate Misconduct Prediction with Support Vector Machine in the Construction Industry. *Journal of Management in Engineering - ASCE*, **2018**, 34, 04018021	5.3	2
10	A Decision Model for Technology Selection in Renovation Project Planning **2010**,		2
9	Multi-agent simulation regulated by microbe-oriented thermodynamics and kinetics equations for exploiting interspecies dynamics and evolution between methanogenesis, sulfidogenesis, hydrogenesis and exoelectrogenesis. *Journal of Hazardous Materials*, **2019**, 366, 573-581	12.8	2
8	Preventing or encouraging illegal activities by construction firms: effects of top management team compensation and aspiration-performance discrepancies. *Engineering, Construction and Architectural Management*, **2021**, 28, 1739-1760	3.1	2
7	Expediting Life Cycle Cost Analysis of Infrastructure Assets under Multiple Uncertainties by Deep Neural Networks. *Journal of Management in Engineering - ASCE*, **2021**, 37, 04021059	5.3	2
6	Effects of Career Horizon and Corporate Governance in China's Construction Industry: Multilevel Study of Top Management Fraud. *Journal of Management in Engineering - ASCE*, **2020**, 36, 04020057	5.3	1
5	Swarm-inspired data-driven approach for housing market segmentation: a case study of Taipei city. *Journal of Housing and the Built Environment*, **2021**, 36, 1787	2	1
4	Optimal Timing of the Seismic Vulnerability Reduction Measures Using Real Options Analysis. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, **2021**, 7, 04021027	1.7	1
3	Life-cycle assessment of food waste recycling **2020**, 481-513		0
2	Learn Curve for Precast Component Productivity in Construction. *International Journal of Civil Engineering*, **2021**, 19, 1179-1194	1.9	0
1	A modeling framework to examine photovoltaic rooftop peak shaving with varying roof availability: A case of office building in Hong Kong. *Journal of Building Engineering*, **2021**, 44, 103349	5.2	0