M S Liew

List of Publications by Year
in descending order

147 papers	**2,157** citations	201385 **27** h-index	264894 **42** g-index
149 all docs	**149** docs citations	**149** times ranked	**1311** citing authors

#	Article	IF	Citations
1	Industrial Revolution 4.0 in the construction industry: Challenges and opportunities for stakeholders. Ain Shams Engineering Journal, 2020, 11, 225-230.	3.5	192
2	Incorporation of waste materials in the manufacture of masonry bricks: An update review. Journal of Building Engineering, 2019, 21, 37-54.	1.6	163
3	Mechanical properties and performance of high volume fly ash roller compacted concrete containing crumb rubber and nano silica. Construction and Building Materials, 2018, 171, 521-538.	3.2	112
4	Criteria for the selection of sustainable onsite construction equipment. International Journal of Sustainable Built Environment, 2014, 3, 96-110.	3.2	92
5	Identification of coordination factors affecting building projects performance. AEJ - Alexandria Engineering Journal, 2016, 55, 2689-2698.	3.4	76
6	Optimization and characterization of cast in-situ alkali-activated pastes by response surface methodology. Construction and Building Materials, 2019, 225, 776-787.	3.2	65
7	Mechanical and microstructural properties of high calcium fly ash one-part geopolymer cement made with granular activator. Heliyon, 2019, 5, e02255.	1.4	65
8	Impact of inflation rate on construction projects budget: A review. Ain Shams Engineering Journal, 2021, 12, 407-414.	3.5	62
9	Optimization of hybrid fibres in engineered cementitious composites. Construction and Building Materials, 2018, 190, 24-37.	3.2	61
10	Properties of nano-silica modified pervious concrete. Case Studies in Construction Materials, 2018, 8, 409-422.	0.8	49
11	Development of rubberized geopolymer interlocking bricks. Case Studies in Construction Materials, 2018, 8, 401-408.	0.8	47
12	Investigating the impact of inflation on building materials prices in construction industry. Journal of Building Engineering, 2020, 32, 101485.	1.6	41
13	Effect of paste aggregate ratio and curing methods on the performance of one-part alkali-activated concrete. Construction and Building Materials, 2020, 261, 120024.	3.2	40
14	Effects of elevated temperature on the tensile properties of NS-modified self-consolidating engineered cementitious composites and property optimization using response surface methodology (RSM). Construction and Building Materials, 2019, 206, 449-469.	3.2	39
15	Characteristic compressive strength correlation of rubberized concrete interlocking masonry wall. Structures, 2020, 26, 169-184.	1.7	39
16	The influence of high temperature on microstructural damage and residual properties of nano-silica-modified (NS-modified) self-consolidating engineering cementitious composites (SC-ECC) using response surface methodology (RSM). Construction and Building Materials, 2018, 192, 450-466.	3.2	38
17	Bond behaviour of nano-silica-modified self-compacting engineered cementitious composite using response surface methodology. Construction and Building Materials, 2019, 224, 796-814.	3.2	37
18	Acid and Sulphate Attacks on a Rubberized Engineered Cementitious Composite Containing Graphene Oxide. Materials, 2020, 13, 3125.	1.3	36

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19	An Artificial neural networks (ANN) model for evaluating construction project performance based on coordination factors. Cogent Engineering, 2018, 5, 1507657.	1.1	35
20	Evaluating the effect of crumb rubber and nano silica on the properties of high volume fly ash roller compacted concrete pavement using non-destructive techniques. Case Studies in Construction Materials, 2018, 8, 380-391.	0.8	34
21	Development of response surface models for self-compacting hybrid fibre reinforced rubberized cementitious composite. Construction and Building Materials, 2020, 232, 117191.	3.2	34
22	Strengthening the Structural Behavior of Web Openings in RC Deep Beam Using CFRP. Materials, 2020, 13, 2804.	1.3	34
23	Shear Failure of RC Dapped-End Beams. Advances in Materials Science and Engineering, 2015, 2015, 1-11.	1.0	33
24	A Comprehensive Guide to Different Fracturing Technologies: A Review. Energies, 2020, 13, 3326.	1.6	32
25	Effect of Elevated Temperature on the Compressive Strength and Durability Properties of Crumb Rubber Engineered Cementitious Composite. Materials, 2020, 13, 3516.	1.3	31
26	The Effect of Inflation Rate on CO_2 Emission: A Framework for Malaysian Construction Industry. Sustainability, 2021, 13, 1562.	1.6	30
27	A Bibliometric Analysis and Review of Building Information Modelling for Post-Disaster Reconstruction. Sustainability, 2022, 14, 393.	1.6	30
28	Deformation Properties of Rubberized ECC Incorporating Nano Graphene Using Response Surface Methodology. Materials, 2020, 13, 2831.	1.3	28
29	Experimental study on axial compressive behavior of rubberized interlocking masonry walls. Journal of Building Engineering, 2020, 29, 101107.	1.6	26
30	Decommissioning of offshore platform: A sustainable framework. , 2012, , .		25
31	Effect of crumb rubber and nano silica on the fatigue performance of roller compacted concrete pavement. Cogent Engineering, 2018, 5, 1436027.	1.1	25
32	An expert knowledge based decommissioning alternative selection system for fixed oil and gas assets in the South China Sea. Ocean Engineering, 2017, 130, 645-658.	1.9	24
33	Durability performance of high volume fly ash roller compacted concrete pavement containing crumb rubber and nano silica. International Journal of Pavement Engineering, 2020, 21, 1437-1444.	2.2	22
34	Bond behaviour of CFRP-strengthened ECC using Response Surface Methodology (RSM). Case Studies in Construction Materials, 2020, 12, e00327.	0.8	21
35	Utilization of Crumb Rubber and High-Volume Fly Ash in Concrete for Environmental Sustainability: RSM-Based Modeling and Optimization. Materials, 2021, 14, 3322.	1.3	20
36	Skid Resistance of nano silica modified roller compacted rubbercrete for pavement applications: Experimental methods and response surface methodology. Cogent Engineering, 2018, 5, 1452664.	1.1	18

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37	Evaluating the impact resistance of roller compacted concrete containing crumb rubber and nanosilica using response surface methodology and Weibull distribution. World Journal of Engineering, 2019, 16, 33-43.	1.0	18
38	Deformation Properties of Rubberized Engineered Cementitious Composites Using Response Surface Methodology. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2021, 45, 729-740.	1.0	18
39	Improving the modeling capacity of Volterra model using evolutionary computing methods based on Kalman smoother adaptive filter. Applied Soft Computing Journal, 2015, 35, 695-707.	4.1	16
40	Structural Performance of RC and R-ECC Dapped-End Beams Based on the Role of Hanger or Diagonal Reinforcements Combined by ECC. International Journal of Concrete Structures and Materials, 2019, 13, .	1.4	16
41	A Framework for Coordination Process into Construction Projects. MATEC Web of Conferences, 2016, 66, 00079.	0.1	15
42	EFFECT OF CRUMB RUBBER AND NANO SILICA ON THE CREEP AND DRYING SHRINKAGE OF ROLLER COMPACTED CONCRETE PAVEMENT. International Journal of GEOMATE, 2018, 15, .	0.1	15
43	Mastery Learning Assessment Model (MLAM) in Teaching and Learning Mathematics. Procedia, Social and Behavioral Sciences, 2010, 8, 294-298.	0.5	13
44	Mechanical Properties of Crumb Rubber Mortar Containing Nano-Silica Using Response Surface Methodology. Materials, 2021, 14, 5496.	1.3	12
45	Influential Safety Performance and Assessment in Construction Projects: A Review. Lecture Notes in Civil Engineering, 2020, , 719-728.	0.3	12
46	Effects of Graphene Oxide and Crumb Rubber on the Fresh Properties of Self-Compacting Engineered Cementitious Composite Using Response Surface Methodology. Materials, 2022, 15, 2519.	1.3	12
47	Investigating the Awareness of Onsite Mechanization in Malaysian Construction Industry. Procedia Engineering, 2014, 77, 205-212.	1.2	11
48	Time-Dependent Ultimate Strength Performance of Corroded FPSOs. Arabian Journal for Science and Engineering, 2014, 39, 7673-7690.	1.1	11
49	The characteristics of coordination process in construction projects. , 2015, , .		10
50	Tsunami simulation due to seaquake at Manila Trench and Sulu Trench. Natural Hazards, 2017, 85, 1723-1741.	1.6	10
51	Life Cycle Cost Assessment of Offshore Wind Farm: Kudat Malaysia Case. Sustainability, 2021, 13, 7943.	1.6	10
52	Single-Degree-of-Freedom Based Pressure-Impulse Diagrams for Blast Damage Assessment. Applied Mechanics and Materials, 0, 567, 499-504.	0.2	9
53	Investigation of Fibers Reinforced Engineered Cementitious Composites Properties Using Quartz Powder. Materials, 2020, 13, 2428.	1.3	9
54	Hazard Assessment Studies on Hydrocarbon Fire and Blast: An Overview. Advanced Science Letters, 2017, 23, 1243-1247.	0.2	9

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55	Prediction of Failure Loads of RC Dapped-End Beams. Applied Mechanics and Materials, 0, 567, 463-468.	0.2	8
56	Communication, coordination and cooperation in construction projects: business environment and human behaviours. IOP Conference Series: Materials Science and Engineering, 2017, 291, 012003.	0.3	8
57	EVALUATING THE STATIC AND DYNAMIC MODULUS OF ELASTICITY OF ROLLER COMPACTED RUBBERCRETE USING RESPONSE SURFACE METHODOLOGY. International Journal of GEOMATE, 2018, 14, .	0.1	8
58	Mechanical, Microstructural and Drying Shrinkage Properties of NaOH-Pretreated Crumb Rubber Concrete: RSM-Based Modeling and Optimization. Materials, 2022, 15, 2588.	1.3	8
59	Current State of Post-Disaster Reconstruction Projects: A Bibliometric Analysis. , 2021, , .		8
60	Reconstruction of residential buildings post-disaster: A comparison of influencing factors. AIP Conference Proceedings, 2019, , .	0.3	7
61	Determination of environmental load factors for ISO 19902 code in offshore Malaysia using FORM structural reliability method. Ocean Engineering, 2014, 92, 31-43.	1.9	6
62	Identification of transfer functions from surge motion response of a semisubmersible platform using time-varying NARX model. Applied Ocean Research, 2016, 54, 53-66.	1.8	5
63	Recent developments in machine learning applications in landslide susceptibility mapping. AIP Conference Proceedings, 2017, , .	0.3	5
64	The Effect of Element Types on Force Analogy Method Analysis. Journal of Engineering and Technological Sciences, 2018, 49, 785.	0.3	5
65	System Reliability of Existing Jacket Platform in Malaysian Water (Failure Path and System Reliability) Tj ETQq1 1 0.784314 rgBT /Overlo	0.2	4
66	Structural Response of Offshore Blast Walls under Accidental Explosion. Advanced Materials Research, 0, 1043, 278-282.	0.3	4
67	Effect of Anodes on Hydrodynamic Coefficients of Tubular Cylinders - Model Tests. Applied Mechanics and Materials, 0, 567, 241-246.	0.2	4
68	Hydrodynamic Study of Free Standing Drilling Risers under Typhoon Generated Swell. , 2018, , .		4
69	Below-Grade Sulfur Storage Pits in Oil Refineries: A Review. Journal of Failure Analysis and Prevention, 2019, 19, 1745-1760.	0.5	4
70	Environmental implications of onsite mechanization in the Malaysian construction industry. , 2014, , .		4
71	Thin-Walled Cylindrical Shell Storage Tank under Blast Impacts: Finite Element Analysis. Materials, 2021, 14, 7100.	1.3	4
72	Total Quality Management Practices and Adoption in Construction Industry Organizations: A Review. , 2020, , .		4

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73	Dynamic responses of classic spar platforms subjected to long crested waves: Morison equation vs. Diffraction theory. , 2012, , .		3
74	Numerical investigation on dynamic responses of classic spar platforms: Long crested waves vs. short crested waves. , 2012, , .		3
75	Effects of Marine Growth on Hydrodynamic Coefficients of Rigid Tubular Cylinders. Applied Mechanics and Materials, 0, 567, 247-252.	0.2	3
76	Identification of slow drift motions of a truss spar platform using parametric Volterra model. Ocean Engineering, 2015, 109, 654-668.	1.9	3
77	Application of response surface methodology for the optimization of hexavalent chromium removal using a new low-cost adsorbent. Desalination and Water Treatment, 2016, 57, 22507-22518.	1.0	3
78	Hydrocarbon Fire and Explosion's Safety Aspects to Avoid Accident Escalation for Offshore Platform. , 2017, , 801-808.		3
79	Numerical wave tank modelling of regular waves propagation using OpenFOAM. , 2017, , .		3
80	Structural Quality of Graphene Oxide Nanosheets on the Basis of Defect Ratio: A Raman Study. Lecture Notes in Mechanical Engineering, 2021, , 423-439.	0.3	3
81	Time-varying Spectrum Estimation of Offshore Structure Response based on a Time-varying Autoregressive Model. Journal of Applied Sciences, 2012, 12, 2383-2389.	0.1	3
82	Web Intelligence. Advances in Data Mining and Database Management Book Series, 2015, , 83-104.	0.4	3
83	Development and Integration of Metocean Data Interoperability for Intelligent Operations and Automation Using Machine Learning: A Review. Applied Sciences (Switzerland), 2022, 12, 5690.	1.3	3
84	High Quality Solid Biofuel Briquette Production From Palm Oil Milling Solid Wastes. , 2009, , .		2
85	Statistical modelling of environmental load uncertainty for jacket platforms in Malaysia. , 2012, , .		2
86	Development of Platform Selection Tool for Offshore Decommissioning in Malaysia. Applied Mechanics and Materials, 0, 567, 222-227.	0.2	2
87	Research on HGV Collisions with Concrete Bridge Piers. Applied Mechanics and Materials, 0, 567, 648-653.	0.2	2
88	Dynamic Responses of Classic Spar Platform: Short Crested Waves vs. Long Crested Waves. Applied Mechanics and Materials, 0, 567, 235-240.	0.2	2
89	Reliability Assessment Model for Aging Jacket Structures in Malaysian Waters. Applied Mechanics and Materials, 0, 567, 283-288.	0.2	2
90	Response of Monopod Platform under Extreme Wave in Malaysian Water. Applied Mechanics and Materials, 0, 567, 295-300.	0.2	2

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91	A Composite Steel Plate Shear Walls for Offshore Constructions. MATEC Web of Conferences, 2014, 13, 04015.	0.1	2
92	Deformation and Heat Transfer on Three Sides Protected Beams under Fire Accident. IOP Conference Series: Earth and Environmental Science, 2018, 140, 012122.	0.2	2
93	Completeness Knowledge Representation in Fuzzy Description Logics. Communications in Computer and Information Science, 2012, , 164-173.	0.4	2
94	Experimental investigation on dynamic responses of spar platforms subjected to multi-directional waves. , 2012, , .		1
95	Bayesian updating for probability of failure of jacket platforms in Malaysia. , 2013, , .		1
96	Engineering the civil engineering education: A capstone case study in a Malaysian university. , 2013, , .		1
97	A Study on the Structural Failure Mechanism and Reserve Strength Ratio of Tarpon Monopods. Applied Mechanics and Materials, 0, 567, 191-196.	0.2	1
98	Multivariate Regression Analysis for Screening Process of Reliability Assessment. Applied Mechanics and Materials, 0, 567, 271-276.	0.2	1
99	MetOcean data to linked data. , 2014, , .		1
100	Component Reliability Assessment of Offshore Jacket Platforms. Research Journal of Applied Sciences, Engineering and Technology, 2015, 9, 1-10.	0.1	1
101	Development of jacket platform tsunami risk rating system in waters offshore North Borneo. Journal of Marine Science and Application, 2016, 15, 307-320.	0.7	1
102	Ground Motion Prediction Equations for Malaysia Due to Subduction Zone Earthquakes in Sumatran Region. IEEE Access, 2017, 5, 23920-23937.	2.6	1
103	Determination of Shear Wave Velocity in Offshore Terengganu for Ground Response Analysis. IOP Conference Series: Earth and Environmental Science, 2018, 140, 012069.	0.2	1
104	A Systematic Approach to Embodied Carbon Reduction in Buildings. IOP Conference Series: Earth and Environmental Science, 2019, 220, 012055.	0.2	1
105	Numerical modelling of free energy for methanol and water mixtures for biodiesel production. Fuel, 2019, 255, 115781.	3.4	1
106	Downtime Cost Analysis of Offloading Operations Considering Vessel Motions and Mooring Responses in Malaysian Waters. , 2019, , .		1
107	Downtime cost analysis of offloading operations due to influence of partially standing waves in Malaysian waters and development of graphical user interface. Annals of Operations Research, 2020, , 1.	2.6	1
108	Development of Downtime Cost Calculator for Offloading Operations Influenced by Parametric Rolling. Journal of Marine Science and Engineering, 2020, 8, 7.	1.2	1

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109	Delay and Cost Overrun of Palm Oil Refinery Construction Projects: Artificial Neural Network (ANN) Model. Lecture Notes in Civil Engineering, 2021, , 580-589.	0.3	1
110	A Proposed Methodology for Integrating Oil and Gas Data Using Semantic Big Data Technology. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 30-38.	0.5	1
111	Study of Mechanical Behavior of Free Standing Drilling Riser Under Extreme Weather Conditions. Advanced Science Letters, 2018, 24, 8885-8889.	0.2	1
112	Fiber resin matrix composites: nature's gift. WIT Transactions on Ecology and the Environment, 2011, , .	0.0	1
113	Fatigue performance of deepwater SCR under short-term VIV considering various S-N curves. Structural Engineering and Mechanics, 2015, 53, 881-896.	1.0	1
114	Web Intelligence. , 2016, , 711-733.		1
115	Marine corrosion of mild steel at Lumut, Perak. , 2012, , .		0
116	Post-processor program for ISO-19902 tubular joints design. , 2012, , .		0
117	Truss spar platform motions for combined wave, current and wind forces. , 2012, , .		0
118	Use of optical tracking system for measurement of dynamic model responses in a wave tank. , 2012, , .		0
119	Dynamic responses of spar acted upon by random wave and current. , 2012, , .		0
120	A study on motion responses of classic spar platforms subjected to short crested waves. , 2013, , .		0
121	System Identification of a Six-Legged Semisubmersible Subjected to Wave Loads through Frequency Domain Analysis. Applied Mechanics and Materials, 2013, 373-375, 770-784.	0.2	0
122	Performance of Simplified Damage Assessment Tools for Reinforced Concrete Panels under Blast Loading. Key Engineering Materials, 2013, 594-595, 492-497.	0.4	0
123	Nonlinear System Identification of Floating Structures Using Time-Varying ARX-Based Volterra Model. Applied Mechanics and Materials, 0, 465-466, 3-7.	0.2	0
124	Nonlinear System Identification via Basis Functions Based Time Domain Volterra Model. MATEC Web of Conferences, 2014, 13, 02031.	0.1	0
125	Extreme Value Analysis and Joint Densities of Wind Directionality, Wind Speed and Wave Height for Malaysian Waters. Advanced Materials Research, 0, 935, 159-162.	0.3	0
126	Smart and Robust Composite Tube Columns Frames for Offshore Sub-Structure Construction. Advanced Materials Research, 2014, 983, 11-15.	0.3	0

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127	Prediction of Surge Motion Response of Floating Structure Using Kalman Smoother Adaptive Filters Based Time-Domain Volterra Model. Applied Mechanics and Materials, 0, 660, 799-803.	0.2	0
128	Service and Construction Sector of Malaysia: Causality Link (1991-2013). Applied Mechanics and Materials, 0, 567, 619-624.	0.2	0
129	Comparison of Classical Tsunami Resistance Systems in RC Structure. Advances in Structural Engineering, 2014, 17, 157-163.	1.2	0
130	Hydrodynamic Forces on Linear and Multi-Dimensional Arrays of Circular Cylinders. Applied Mechanics and Materials, 0, 567, 259-264.	0.2	0
131	Broadside Vessel Collision Forces for Conventional Riser-Guard. Applied Mechanics and Materials, 0, 567, 210-215.	0.2	0
132	Major Challenges to the Sustainable Operations of Construction Equipment in Malaysia. Applied Mechanics and Materials, 0, 567, 589-594.	0.2	0
133	An Experimental Investigation of the Responses of Classic Spar Platform Subjected to Bi-directional Waves. Research Journal of Applied Sciences, Engineering and Technology, 2015, 9, 11-17.	0.1	0
134	Structural Reliability Analysis Using Quadratic Polynomial Response Surface and Finite Element in MATLAB. , 2016, , .		0
135	Impact of the Overloading of Heavy Goods Vehicles on the Fatigue Life of Steel Bridges. , 2017, , .		0
136	Heave motion prediction of a large barge in random seas by using artificial neural network. AIP Conference Proceedings, 2017, , .	0.3	0
137	Evaluation of Failure Capacity of Offshore Riser Protectors Under Vessel Impact. Journal of Failure Analysis and Prevention, 2018, 18, 280-290.	0.5	0
138	An evaluation of the outcomes probabilities of roadway bridge defect model using Event Tree method. AIP Conference Proceedings, 2018, , .	0.3	0
139	Nonlinear System Identification of Structures Subject to Stochastic Loadings. IOP Conference Series: Earth and Environmental Science, 2019, 244, 012029.	0.2	0
140	Forensic investigation of a slender high-rise structure subject to dynamic wind conditions. IOP Conference Series: Earth and Environmental Science, 2019, 244, 012020.	0.2	0
141	Building life cycle analysis toward low carbon emission and energy efficiency. IOP Conference Series: Earth and Environmental Science, 2019, 220, 012054.	0.2	0
142	Ground Response Analysis for Stiff and Soft Soil Under Different Earthquake Events: A Comparison. Lecture Notes in Civil Engineering, 2021, , 891-898.	0.3	0
143	The effects of partial replacement of cement in cement mortar and brick by Microwave Incinerated Rice Husk Ash (MIRHA). WIT Transactions on Ecology and the Environment, 2011, , .	0.0	0
144	Effect of Synthesized Biopolymer from Coconut Residue as Drag Reducing Agent in Water Injection Well. , 2017, , 721-732.		0

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145	Implementation of Attenuation Equations for Seismic Hazard Assessment in Malaysian Water. Advanced Science Letters, 2017, 23, 1361-1365.	0.2	0
146	A Novel Algorithm for Effective Vibration Control of Portal Frames. Journal of Engineering and Technological Sciences, 2018, 50, 315-329.	0.3	0
147	Experimental evaluation of force analogy method (FAM) by element type. Earthquake Engineering and Engineering Vibration, 2020, 19, 137-147.	1.1	0