Yimiao Huang

List of Publications by Citations

36 papers	710 citations	16 h-index	26 g-index
39 ext. papers	1,064 ext. citations	5.9 avg, IF	5.16 L-index

#	Paper	IF	Citations
36	Modelling uniaxial compressive strength of lightweight self-compacting concrete using random forest regression. *Construction and Building Materials*, **2019**, 210, 713-719	6.7	98
35	Determination of Young's modulus of jet grouted coalcretes using an intelligent model. *Engineering Geology*, **2019**, 252, 43-53	6	67
34	Prediction of permeability and unconfined compressive strength of pervious concrete using evolved support vector regression. *Construction and Building Materials*, **2019**, 207, 440-449	6.7	58
33	XGBoost algorithm-based prediction of concrete electrical resistivity for structural health monitoring. *Automation in Construction*, **2020**, 114, 103155	9.6	54
32	Multi-objective optimization of concrete mixture proportions using machine learning and metaheuristic algorithms. *Construction and Building Materials*, **2020**, 253, 119208	6.7	46
31	A hybrid intelligent system for designing optimal proportions of recycled aggregate concrete. *Journal of Cleaner Production*, **2020**, 273, 122922	10.3	35
30	A metaheuristic-optimized multi-output model for predicting multiple properties of pervious concrete. *Construction and Building Materials*, **2020**, 249, 118803	6.7	31
29	Tensile and bonding behaviours of hybridized BFRP□steel bars as concrete reinforcement. *Construction and Building Materials*, **2019**, 201, 62-71	6.7	25
28	Intelligent mixture design of steel fibre reinforced concrete using a support vector regression and firefly algorithm based multi-objective optimization model. *Construction and Building Materials*, **2020**, 260, 120457	6.7	24
27	Properties of a double-layer EMW-absorbing structure containing a graded nano-sized absorbent combing extruded and sprayed 3D printing. *Construction and Building Materials*, **2020**, 261, 120031	6.7	23
26	Fibre-reinforced lightweight engineered cementitious composites for 3D concrete printing. *Ceramics International*, **2021**, 47, 27107-27121	5.1	21
25	Mechanical enhancement for EMW-absorbing cementitious material using 3D concrete printing. *Journal of Building Engineering*, **2021**, 41, 102763	5.2	18
24	Review on electromagnetic wave absorbing capacity improvement of cementitious material. *Construction and Building Materials*, **2020**, 262, 120907	6.7	17
23	Multi-level explosion risk analysis (MLERA) for accidental gas explosion events in super-large FLNG facilities. *Journal of Loss Prevention in the Process Industries*, **2017**, 45, 242-254	3.5	17
22	Electromagnetic wave absorbing performance of 3D printed wave-shape copper solid cementitious element. *Cement and Concrete Composites*, **2020**, 114, 103789	8.6	17
21	A review on effects of different factors on gas explosions in underground structures. *Underground Space (China)*, **2020**, 5, 298-314	3.7	16
20	Optimal blast wall layout design to mitigate gas dispersion and explosion on a cylindrical FLNG platform. *Journal of Loss Prevention in the Process Industries*, **2017**, 49, 481-492	3.5	15

19	Mixture optimization for environmental, economical and mechanical objectives in silica fume concrete: A novel frame-work based on machine learning and a new meta-heuristic algorithm. *Resources, Conservation and Recycling*, **2021**, 167, 105395	11.9	14
18	Gas dispersion risk analysis of safety gap effect on the innovating FLNG vessel with a cylindrical platform. *Journal of Loss Prevention in the Process Industries*, **2016**, 40, 304-316	3.5	14
17	A grid-based risk screening method for fire and explosion events of hydrogen refuelling stations. *International Journal of Hydrogen Energy*, **2018**, 43, 442-454	6.7	14
16	Grid-based risk mapping for gas explosion accidents by using Bayesian network method. *Journal of Loss Prevention in the Process Industries*, **2017**, 48, 223-232	3.5	12
15	A beetle antennae search improved BP neural network model for predicting multi-factor-based gas explosion pressures. *Journal of Loss Prevention in the Process Industries*, **2020**, 65, 104117	3.5	12
14	Safety assessment of explosions during gas stations refilling process. *Journal of Loss Prevention in the Process Industries*, **2019**, 60, 133-144	3.5	11
13	Gas explosion analysis of safety gap effect on the innovating FLNG vessel with a cylindrical platform. *Journal of Loss Prevention in the Process Industries*, **2016**, 44, 263-274	3.5	11
12	Automating the mixture design of lightweight foamed concrete using multi-objective firefly algorithm and support vector regression. *Cement and Concrete Composites*, **2021**, 121, 104103	8.6	11
11	Mechanical and electrical properties of concrete incorporating an iron-particle contained nano-graphite by-product. *Construction and Building Materials*, **2021**, 270, 121377	6.7	9
10	Confidence-based quantitative risk analysis for offshore accidental hydrocarbon release events. *Journal of Loss Prevention in the Process Industries*, **2015**, 35, 117-124	3.5	8
9	Flexural behaviour of reinforced concrete beams strengthened with pre-stressed and near surface mounted steel–basalt-fibre composite bars. *Advances in Structural Engineering*, **2020**, 23, 1154-1167	1.9	5
8	A risk-based optimal pressure relief opening design for gas explosions in underground utility tunnels. *Tunnelling and Underground Space Technology*, **2021**, 116, 104091	5.7	3
7	Tensile and flexural properties of 3D-printed jackets-reinforced mortar. *Construction and Building Materials*, **2021**, 296, 123639	6.7	2
6	Multi-objective design optimization for graphite-based nanomaterials reinforced cementitious composites: A data-driven method with machine learning and NSGA-II. *Construction and Building Materials*, **2022**, 331, 127198	6.7	1
5	Multi-Level Explosion Risk Analysis for VCEs in Super-Large FLNG Facilities **2019**, 239-266		
4	CFD-Based Explosion Risk Analysis of Blast Wall Effects on FLNG Platforms **2019**, 267-288		
3	CFD-Based Overpressure Prediction for Congested Multi-Modules–Safety Gap Effect **2019**, 129-151		
2	Event Tree Analysis of Offshore Hydrocarbon Release Events **2019**, 173-189		

1 Bayesian Network Analysis of Explosion Events at Petrol Stations **2019**, 191-217