Yimiao Huang

List of Publications by Year
in descending order

36 papers	**1,490** citations	361045 **20** h-index	414034 **32** g-index
39 all docs	**39** docs citations	**39** times ranked	**796** citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling uniaxial compressive strength of lightweight self-compacting concrete using random forest regression. Construction and Building Materials, 2019, 210, 713-719.	3.2	209
2	XGBoost algorithm-based prediction of concrete electrical resistivity for structural health monitoring. Automation in Construction, 2020, 114, 103155.	4.8	176
3	Multi-objective optimization of concrete mixture proportions using machine learning and metaheuristic algorithms. Construction and Building Materials, 2020, 253, 119208.	3.2	124
4	Prediction of permeability and unconfined compressive strength of pervious concrete using evolved support vector regression. Construction and Building Materials, 2019, 207, 440-449.	3.2	107
5	Determination of Young's modulus of jet grouted coalcretes using an intelligent model. Engineering Geology, 2019, 252, 43-53.	2.9	79
6	A hybrid intelligent system for designing optimal proportions of recycled aggregate concrete. Journal of Cleaner Production, 2020, 273, 122922.	4.6	72
7	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.	3.2	58
8	Fibre-reinforced lightweight engineered cementitious composites for 3D concrete printing. Ceramics International, 2021, 47, 27107-27121.	2.3	58
9	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.	5.3	51
10	A metaheuristic-optimized multi-output model for predicting multiple properties of pervious concrete. Construction and Building Materials, 2020, 249, 118803.	3.2	49
11	Tensile and bonding behaviours of hybridized BFRP–steel bars as concrete reinforcement. Construction and Building Materials, 2019, 201, 62-71.	3.2	44
12	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.	3.2	44
13	Review on electromagnetic wave absorbing capacity improvement of cementitious material. Construction and Building Materials, 2020, 262, 120907.	3.2	44
14	Electromagnetic wave absorbing performance of 3D printed wave-shape copper solid cementitious element. Cement and Concrete Composites, 2020, 114, 103789.	4.6	37
15	Automating the mixture design of lightweight foamed concrete using multi-objective firefly algorithm and support vector regression. Cement and Concrete Composites, 2021, 121, 104103.	4.6	29
16	A review on effects of different factors on gas explosions in underground structures. Underground Space (China), 2020, 5, 298-314.	3.4	27
17	Mechanical enhancement for EMW-absorbing cementitious material using 3D concrete printing. Journal of Building Engineering, 2021, 41, 102763.	1.6	27
18	A grid-based risk screening method for fire and explosion events of hydrogen refuelling stations. International Journal of Hydrogen Energy, 2018, 43, 442-454.	3.8	26

#	Article	IF	Citations
19	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.	1.7	25
20	Multi-objective design optimization for graphite-based nanomaterials reinforced cementitious composites: A data-driven method with machine learning and NSGA-â…¡. Construction and Building Materials, 2022, 331, 127198.	3.2	23
21	Safety assessment of explosions during gas stations refilling process. Journal of Loss Prevention in the Process Industries, 2019, 60, 133-144.	1.7	21
22	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.	1.7	20
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.	1.7	20
24	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.	1.7	20
25	Mechanical and electrical properties of concrete incorporating an iron-particle contained nano-graphite by-product. Construction and Building Materials, 2021, 270, 121377.	3.2	20
26	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.	1.7	19
27	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.	1.7	14
28	A risk-based optimal pressure relief opening design for gas explosions in underground utility tunnels. Tunnelling and Underground Space Technology, 2021, 116, 104091.	3.0	13
29	Confidence-based quantitative risk analysis for offshore accidental hydrocarbon release events. Journal of Loss Prevention in the Process Industries, 2015, 35, 117-124.	1.7	10
30	Flexural behaviour of reinforced concrete beams strengthened with pre-stressed and near surface mounted steelâ€"basalt-fibre composite bars. Advances in Structural Engineering, 2020, 23, 1154-1167.	1.2	9
31	An artificial intelligence-based conductivity prediction and feature analysis of carbon fiber reinforced cementitious composite for non-destructive structural health monitoring. Engineering Structures, 2022, 266, 114578.	2.6	8
32	Tensile and flexural properties of 3D-printed jackets-reinforced mortar. Construction and Building Materials, 2021, 296, 123639.	3.2	6
33	Risk Analysis of Vapour Cloud Explosions for Oil and Gas Facilities. , 2019, , .		1
34	Multi-Level Explosion Risk Analysis for VCEs in Super-Large FLNG Facilities. , 2019, , 239-266.		0
35	CFD-Based Overpressure Prediction for Congested Multi-Modulesâ€"Safety Gap Effect. , 2019, , 129-151.		0
36	Bayesian Network Analysis of Explosion Events at Petrol Stations. , 2019, , 191-217.		0