

# Yimiao Huang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Multi-objective design optimization for graphite-based nanomaterials reinforced cementitious composites: A data-driven method with machine learning and NSGA-II. <i>Construction and Building Materials</i> , <b>2022</b> , 331, 127198	6.7	1
35	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. <i>Resources, Conservation and Recycling</i> , <b>2021</b> , 167, 105395	11.9	14
34	Mechanical and electrical properties of concrete incorporating an iron-particle contained nano-graphite by-product. <i>Construction and Building Materials</i> , <b>2021</b> , 270, 121377	6.7	9
33	Automating the mixture design of lightweight foamed concrete using multi-objective firefly algorithm and support vector regression. <i>Cement and Concrete Composites</i> , <b>2021</b> , 121, 104103	8.6	11
32	Tensile and flexural properties of 3D-printed jackets-reinforced mortar. <i>Construction and Building Materials</i> , <b>2021</b> , 296, 123639	6.7	2
31	Mechanical enhancement for EMW-absorbing cementitious material using 3D concrete printing. <i>Journal of Building Engineering</i> , <b>2021</b> , 41, 102763	5.2	18
30	Fibre-reinforced lightweight engineered cementitious composites for 3D concrete printing. <i>Ceramics International</i> , <b>2021</b> , 47, 27107-27121	5.1	21
29	A risk-based optimal pressure relief opening design for gas explosions in underground utility tunnels. <i>Tunnelling and Underground Space Technology</i> , <b>2021</b> , 116, 104091	5.7	3
28	Review on electromagnetic wave absorbing capacity improvement of cementitious material. <i>Construction and Building Materials</i> , <b>2020</b> , 262, 120907	6.7	17
27	Multi-objective optimization of concrete mixture proportions using machine learning and metaheuristic algorithms. <i>Construction and Building Materials</i> , <b>2020</b> , 253, 119208	6.7	46
26	A metaheuristic-optimized multi-output model for predicting multiple properties of pervious concrete. <i>Construction and Building Materials</i> , <b>2020</b> , 249, 118803	6.7	31
25	Flexural behaviour of reinforced concrete beams strengthened with pre-stressed and near surface mounted steel-Basalt-fibre composite bars. <i>Advances in Structural Engineering</i> , <b>2020</b> , 23, 1154-1167	1.9	5
24	Electromagnetic wave absorbing performance of 3D printed wave-shape copper solid cementitious element. <i>Cement and Concrete Composites</i> , <b>2020</b> , 114, 103789	8.6	17
23	Intelligent mixture design of steel fibre reinforced concrete using a support vector regression and firefly algorithm based multi-objective optimization model. <i>Construction and Building Materials</i> , <b>2020</b> , 260, 120457	6.7	24
22	Properties of a double-layer EMW-absorbing structure containing a graded nano-sized absorbent combing extruded and sprayed 3D printing. <i>Construction and Building Materials</i> , <b>2020</b> , 261, 120031	6.7	23
21	A hybrid intelligent system for designing optimal proportions of recycled aggregate concrete. <i>Journal of Cleaner Production</i> , <b>2020</b> , 273, 122922	10.3	35
20	A review on effects of different factors on gas explosions in underground structures. <i>Underground Space (China)</i> , <b>2020</b> , 5, 298-314	3.7	16

19	A beetle antennae search improved BP neural network model for predicting multi-factor-based gas explosion pressures. <i>Journal of Loss Prevention in the Process Industries</i> , <b>2020</b> , 65, 104117	3.5	12
18	XGBoost algorithm-based prediction of concrete electrical resistivity for structural health monitoring. <i>Automation in Construction</i> , <b>2020</b> , 114, 103155	9.6	54
17	Multi-Level Explosion Risk Analysis for VCEs in Super-Large FLNG Facilities <b>2019</b> , 239-266		
16	CFD-Based Explosion Risk Analysis of Blast Wall Effects on FLNG Platforms <b>2019</b> , 267-288		
15	CFD-Based Overpressure Prediction for Congested Multi-Modules Safety Gap Effect <b>2019</b> , 129-151		
14	Event Tree Analysis of Offshore Hydrocarbon Release Events <b>2019</b> , 173-189		
13	Bayesian Network Analysis of Explosion Events at Petrol Stations <b>2019</b> , 191-217		
12	Safety assessment of explosions during gas stations refilling process. <i>Journal of Loss Prevention in the Process Industries</i> , <b>2019</b> , 60, 133-144	3.5	11
11	Modelling uniaxial compressive strength of lightweight self-compacting concrete using random forest regression. <i>Construction and Building Materials</i> , <b>2019</b> , 210, 713-719	6.7	98
10	Determination of Young's modulus of jet grouted coalcretes using an intelligent model. <i>Engineering Geology</i> , <b>2019</b> , 252, 43-53	6	67
9	Prediction of permeability and unconfined compressive strength of pervious concrete using evolved support vector regression. <i>Construction and Building Materials</i> , <b>2019</b> , 207, 440-449	6.7	58
8	Tensile and bonding behaviours of hybridized BFRP steel bars as concrete reinforcement. <i>Construction and Building Materials</i> , <b>2019</b> , 201, 62-71	6.7	25
7	A grid-based risk screening method for fire and explosion events of hydrogen refuelling stations. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 442-454	6.7	14
6	Grid-based risk mapping for gas explosion accidents by using Bayesian network method. <i>Journal of Loss Prevention in the Process Industries</i> , <b>2017</b> , 48, 223-232	3.5	12
5	Optimal blast wall layout design to mitigate gas dispersion and explosion on a cylindrical FLNG platform. <i>Journal of Loss Prevention in the Process Industries</i> , <b>2017</b> , 49, 481-492	3.5	15
4	Multi-level explosion risk analysis (MLERA) for accidental gas explosion events in super-large FLNG facilities. <i>Journal of Loss Prevention in the Process Industries</i> , <b>2017</b> , 45, 242-254	3.5	17
3	Gas dispersion risk analysis of safety gap effect on the innovating FLNG vessel with a cylindrical platform. <i>Journal of Loss Prevention in the Process Industries</i> , <b>2016</b> , 40, 304-316	3.5	14
2	Gas explosion analysis of safety gap effect on the innovating FLNG vessel with a cylindrical platform. <i>Journal of Loss Prevention in the Process Industries</i> , <b>2016</b> , 44, 263-274	3.5	11

- 1 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