

# Qing-feng Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

2,902  
citations

117453

34  
h-index

182168

51  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1245  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of mechanical properties of green concrete incorporating waste foundry sand based on gene expression programming. <i>Journal of Hazardous Materials</i> , 2020, 384, 121322.	6.5	231
2	Ionic transport features in concrete composites containing various shaped aggregates: a numerical study. <i>Composite Structures</i> , 2018, 183, 371-380.	3.1	167
3	Prediction of chloride diffusivity in concrete using artificial neural network: Modelling and performance evaluation. <i>Construction and Building Materials</i> , 2021, 268, 121082.	3.2	140
4	Multi-phase modelling of electrochemical rehabilitation for ASR and chloride affected concrete composites. <i>Composite Structures</i> , 2019, 207, 176-189.	3.1	130
5	A three-phase, multi-component ionic transport model for simulation of chloride penetration in concrete. <i>Engineering Structures</i> , 2015, 86, 122-133.	2.6	117
6	Prediction model for compressive arch action capacity of RC frame structures under column removal scenario using gene expression programming. <i>Structures</i> , 2020, 25, 212-228.	1.7	108
7	Properties of recycled concrete aggregates strengthened by different types of pozzolan slurry. <i>Construction and Building Materials</i> , 2019, 216, 632-647.	3.2	96
8	Sustainable utilization of foundry waste: Forecasting mechanical properties of foundry sand based concrete using multi-expression programming. <i>Science of the Total Environment</i> , 2021, 780, 146524.	3.9	79
9	Effects of ordinary Portland cement on the early properties and hydration of calcium sulfoaluminate cement. <i>Construction and Building Materials</i> , 2018, 186, 1144-1153.	3.2	78
10	Influence of SiO <sub>2</sub> , TiO <sub>2</sub> and Fe <sub>2</sub> O <sub>3</sub> nanoparticles on the properties of fly ash blended cement mortars. <i>Construction and Building Materials</i> , 2020, 258, 119627.	3.2	77
11	A numerical study on chloride migration in cracked concrete using multi-component ionic transport models. <i>Computational Materials Science</i> , 2015, 99, 396-416.	1.4	73
12	Combine ingress of chloride and carbonation in marine-exposed concrete under unsaturated environment: A numerical study. <i>Ocean Engineering</i> , 2019, 189, 106350.	1.9	72
13	Effect of carbonation on release of bound chlorides in chloride-contaminated concrete. <i>Magazine of Concrete Research</i> , 2016, 68, 353-363.	0.9	71
14	Numerical investigation of external sulfate attack and its effect on chloride binding and diffusion in concrete. <i>Construction and Building Materials</i> , 2021, 285, 122806.	3.2	70
15	Numerical study of carbonation and its effect on chloride binding in concrete. <i>Cement and Concrete Composites</i> , 2019, 104, 103402.	4.6	69
16	Performance and properties of mortar mixed with nano-CuO and rice husk ash. <i>Cement and Concrete Composites</i> , 2016, 74, 225-235.	4.6	68
17	A numerical study on chloride diffusion in freeze-thaw affected concrete. <i>Construction and Building Materials</i> , 2018, 179, 553-565.	3.2	67
18	Three-phase modelling of electrochemical chloride removal from corroded steel-reinforced concrete. <i>Construction and Building Materials</i> , 2014, 70, 410-427.	3.2	65

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19	Multi-phase modelling of ionic transport in concrete when subjected to an externally applied electric field. <i>Engineering Structures</i> , 2012, 42, 201-213.	2.6	62
20	Binding capacity and diffusivity of concrete subjected to freeze-thaw and chloride attack: A numerical study. <i>Ocean Engineering</i> , 2019, 186, 106093.	1.9	61
21	Transport Properties of Sulfate and Chloride Ions Confined between Calcium Silicate Hydrate Surfaces: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28021-28032.	1.5	60
22	Developing a sustainable concrete incorporating bentonite clay and silica fume: Mechanical and durability performance. <i>Journal of Cleaner Production</i> , 2022, 337, 130315.	4.6	60
23	Numerical study on cracking and its effect on chloride transport in concrete subjected to external load. <i>Construction and Building Materials</i> , 2022, 325, 126797.	3.2	53
24	Prediction of Catenary Action Capacity of RC Beam-Column Substructures under a Missing Column Scenario Using Evolutionary Algorithm. <i>KSCE Journal of Civil Engineering</i> , 2021, 25, 891-905.	0.9	51
25	A comparative study of numerical modelling techniques for the fracture of brittle materials with specific reference to glass. <i>Engineering Structures</i> , 2017, 152, 493-505.	2.6	49
26	Effect of granulated blast furnace slag on the self-healing capability of mortar incorporating crystalline admixture. <i>Construction and Building Materials</i> , 2020, 239, 117818.	3.2	47
27	Semi-analytical model for compressive arch action capacity of RC frame structures. <i>Structures</i> , 2020, 27, 1231-1245.	1.7	47
28	Nanoscale insight on the epoxy-cement interface in salt solution: A molecular dynamics study. <i>Applied Surface Science</i> , 2020, 509, 145322.	3.1	45
29	Prediction of chloride diffusion coefficients using multi-phase models. <i>Magazine of Concrete Research</i> , 2017, 69, 134-144.	0.9	41
30	An experimental and numerical investigation of coarse aggregate settlement in fresh concrete under vibration. <i>Cement and Concrete Composites</i> , 2021, 122, 104153.	4.6	41
31	Mechanical“transport”chemical modeling of electrochemical repair methods for corrosion“induced cracking in marine concrete. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2022, 37, 1854-1874.	6.3	41
32	Five-phase modelling for effective diffusion coefficient of chlorides in recycled concrete. <i>Magazine of Concrete Research</i> , 2018, 70, 583-594.	0.9	39
33	Simulating the impact damage of laminated glass considering mixed mode delamination using FEM/DEM. <i>Composite Structures</i> , 2018, 202, 1239-1252.	3.1	38
34	Prediction of Chloride Distribution for Offshore Concrete Based on Statistical Analysis. <i>Materials</i> , 2020, 13, 174.	1.3	38
35	Electrochemical deposition method for load-induced crack repair of reinforced concrete structures: A numerical study. <i>Engineering Structures</i> , 2021, 246, 112903.	2.6	34
36	Numerical studies on the progressive collapse resistance of multi-story RC buildings with and without exterior masonry walls. <i>Structures</i> , 2020, 28, 1050-1059.	1.7	33

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37	Factors influencing the progressive collapse resistance of RC frame structures. <i>Journal of Building Engineering</i> , 2020, 27, 100986.	1.6	32
38	Chloride penetration in freeze-thaw induced cracking concrete: A numerical study. <i>Construction and Building Materials</i> , 2021, 302, 124291.	3.2	32
39	Multiphase modelling of ionic transport in cementitious materials with surface charges. <i>Computational Materials Science</i> , 2016, 111, 339-349.	1.4	30
40	Effect of environmental temperature on efficiency of electrochemical chloride removal from concrete. <i>Construction and Building Materials</i> , 2018, 193, 189-195.	3.2	28
41	Characteristic of silica nanoparticles on mechanical performance and microstructure of sulphoaluminate cement/ordinary Portland cement binary blends. <i>Construction and Building Materials</i> , 2020, 242, 118158.	3.2	27
42	Hydrophobic silane coating films for the inhibition of water ingress into the nanometer pore of calcium silicate hydrate gels. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19026-19038.	1.3	24
43	Effects of recycled ceramic aggregates on internal curing of high performance concrete. <i>Construction and Building Materials</i> , 2022, 322, 126484.	3.2	21
44	A simplified flange-lip model for distortional buckling of cold-formed steel channel-sections with stiffened web. <i>International Journal of Mechanical Sciences</i> , 2018, 136, 451-459.	3.6	18
45	Effect of the stirrup on the transport of chloride ions during electrochemical chloride removal in concrete structures. <i>Construction and Building Materials</i> , 2020, 250, 118898.	3.2	18
46	Experimental study on the utilization of waste foundry sand as embankment and structural fill. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 474, 012042.	0.3	15
47	Effect of random aggregate distribution on chloride-induced corrosion morphology of steel in concrete. <i>Construction and Building Materials</i> , 2022, 322, 126378.	3.2	12
48	Structure, dynamics and transport behavior of migrating corrosion inhibitors on the surface of calcium silicate hydrate: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 3267-3280.	1.3	7
49	Hydration of Early Age Cement Paste with Nano-CaCO <sub>3</sub> and SAP by LF-NMR Spectroscopy: Mechanism and Prediction. <i>Modelling and Simulation in Engineering</i> , 2019, 2019, 1-10.	0.4	4
50	Distortional-buckling analysis of channel sections with web stiffened by longitudinal ribs subjected to axial compression or bending. <i>Thin-Walled Structures</i> , 2019, 144, 106322.	2.7	3
51	Effect of carbonation on release of bound chlorides in chloride-contaminated concrete. <i>Magazine of Concrete Research</i> , 2015, , 1-11.	0.9	3
52	A study on determination of application limits of bimodulus calculation using spherical stress tensor method. <i>Journal of Reinforced Plastics and Composites</i> , 2017, 36, 479-490.	1.6	2
53	Modelling and Simulation for Concrete Durability: Mechanism and Prediction. <i>Modelling and Simulation in Engineering</i> , 2021, 2021, 1-2.	0.4	0
54	Aggregate Shape Effect on Multicomponent Ionic Electromigration in Concrete. , 2016, , .		0

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55	Experimental Study of Multiple Layered SGP Laminated Glass under Hard Body Impact. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2018, 33, 1110.	0.6	0