

# Qing-feng Liu

## List of Publications by Year in descending order

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55  
papers

2,902  
citations

117625  
34  
h-index

182427  
51  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1245  
citing authors

#	ARTICLE	IF	CITATIONS
1	Developing a sustainable concrete incorporating bentonite clay and silica fume: Mechanical and durability performance. Journal of Cleaner Production, 2022, 337, 130315.	9.3	60
2	Effect of random aggregate distribution on chloride-induced corrosion morphology of steel in concrete. Construction and Building Materials, 2022, 322, 126378.	7.2	12
3	Effects of recycled ceramic aggregates on internal curing of high performance concrete. Construction and Building Materials, 2022, 322, 126484.	7.2	21
4	Mechanicalâ€‘transportâ€‘chemical modeling of electrochemical repair methods for corrosionâ€‘induced cracking in marine concrete. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 1854-1874.	9.8	41
5	Numerical study on cracking and its effect on chloride transport in concrete subjected to external load. Construction and Building Materials, 2022, 325, 126797.	7.2	53
6	Prediction of chloride diffusivity in concrete using artificial neural network: Modelling and performance evaluation. Construction and Building Materials, 2021, 268, 121082.	7.2	140
7	Structure, dynamics and transport behavior of migrating corrosion inhibitors on the surface of calcium silicate hydrate: a molecular dynamics study. Physical Chemistry Chemical Physics, 2021, 23, 3267-3280.	2.8	7
8	Prediction of Catenary Action Capacity of RC Beam-Column Substructures under a Missing Column Scenario Using Evolutionary Algorithm. KSCE Journal of Civil Engineering, 2021, 25, 891-905.	1.9	51
9	Numerical investigation of external sulfate attack and its effect on chloride binding and diffusion in concrete. Construction and Building Materials, 2021, 285, 122806.	7.2	70
10	Sustainable utilization of foundry waste: Forecasting mechanical properties of foundry sand based concrete using multi-expression programming. Science of the Total Environment, 2021, 780, 146524.	8.0	79
11	Modelling and Simulation for Concrete Durability: Mechanism and Prediction. Modelling and Simulation in Engineering, 2021, 2021, 1-2.	0.7	0
12	An experimental and numerical investigation of coarse aggregate settlement in fresh concrete under vibration. Cement and Concrete Composites, 2021, 122, 104153.	10.7	41
13	Chloride penetration in freezeâ€‘thaw induced cracking concrete: A numerical study. Construction and Building Materials, 2021, 302, 124291.	7.2	32
14	Electrochemical deposition method for load-induced crack repair of reinforced concrete structures: A numerical study. Engineering Structures, 2021, 246, 112903.	5.3	34
15	Prediction of mechanical properties of green concrete incorporating waste foundry sand based on gene expression programming. Journal of Hazardous Materials, 2020, 384, 121322.	12.4	231
16	Factors influencing the progressive collapse resistance of RC frame structures. Journal of Building Engineering, 2020, 27, 100986.	3.4	32
17	Effect of granulated blast furnace slag on the self-healing capability of mortar incorporating crystalline admixture. Construction and Building Materials, 2020, 239, 117818.	7.2	47
18	Prediction of Chloride Distribution for Offshore Concrete Based on Statistical Analysis. Materials, 2020, 13, 174.	2.9	38

#	ARTICLE	IF	CITATIONS
19	Numerical studies on the progressive collapse resistance of multi-story RC buildings with and without exterior masonry walls. Structures, 2020, 28, 1050-1059.	3.6	33
20	Semi-analytical model for compressive arch action capacity of RC frame structures. Structures, 2020, 27, 1231-1245.	3.6	47
21	Prediction model for compressive arch action capacity of RC frame structures under column removal scenario using gene expression programming. Structures, 2020, 25, 212-228.	3.6	108
22	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. Construction and Building Materials, 2020, 258, 119627.	7.2	77
23	Characteristic of silica nanoparticles on mechanical performance and microstructure of sulphoaluminate cement/ordinary Portland cement binary blends. Construction and Building Materials, 2020, 242, 118158.	7.2	27
24	Nanoscale insight on the epoxy-cement interface in salt solution: A molecular dynamics study. Applied Surface Science, 2020, 509, 145322.	6.1	45
25	Effect of the stirrup on the transport of chloride ions during electrochemical chloride removal in concrete structures. Construction and Building Materials, 2020, 250, 118898.	7.2	18
26	Hydrophobic silane coating films for the inhibition of water ingress into the nanometer pore of calcium silicate hydrate gels. Physical Chemistry Chemical Physics, 2019, 21, 19026-19038.	2.8	24
27	Hydration of Early Age Cement Paste with Nano-CaCO <sub>3</sub> and SAP by LF-NMR Spectroscopy: Mechanism and Prediction. Modelling and Simulation in Engineering, 2019, 2019, 1-10.	0.7	4
28	Binding capacity and diffusivity of concrete subjected to freeze-thaw and chloride attack: A numerical study. Ocean Engineering, 2019, 186, 106093.	4.3	61
29	Numerical study of carbonation and its effect on chloride binding in concrete. Cement and Concrete Composites, 2019, 104, 103402.	10.7	69
30	Distortional-buckling analysis of channel sections with web stiffened by longitudinal ribs subjected to axial compression or bending. Thin-Walled Structures, 2019, 144, 106322.	5.3	3
31	Combine ingress of chloride and carbonation in marine-exposed concrete under unsaturated environment: A numerical study. Ocean Engineering, 2019, 189, 106350.	4.3	72
32	Properties of recycled concrete aggregates strengthened by different types of pozzolan slurry. Construction and Building Materials, 2019, 216, 632-647.	7.2	96
33	Multi-phase modelling of electrochemical rehabilitation for ASR and chloride affected concrete composites. Composite Structures, 2019, 207, 176-189.	5.8	130
34	A simplified flange-lip model for distortional buckling of cold-formed steel channel-sections with stiffened web. International Journal of Mechanical Sciences, 2018, 136, 451-459.	6.7	18
35	Ionic transport features in concrete composites containing various shaped aggregates: a numerical study. Composite Structures, 2018, 183, 371-380.	5.8	167
36	Five-phase modelling for effective diffusion coefficient of chlorides in recycled concrete. Magazine of Concrete Research, 2018, 70, 583-594.	2.0	39

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37	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.	3.1	60
38	Effect of environmental temperature on efficiency of electrochemical chloride removal from concrete. <i>Construction and Building Materials</i> , 2018, 193, 189-195.	7.2	28
39	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.	7.2	78
40	Simulating the impact damage of laminated glass considering mixed mode delamination using FEM/DEM. <i>Composite Structures</i> , 2018, 202, 1239-1252.	5.8	38
41	A numerical study on chloride diffusion in freeze-thaw affected concrete. <i>Construction and Building Materials</i> , 2018, 179, 553-565.	7.2	67
42	Experimental Study of Multiple Layered SGP Laminated Glass under Hard Body Impact. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2018, 33, 1110.	1.3	0
43	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.	3.1	2
44	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.	5.3	49
45	Prediction of chloride diffusion coefficients using multi-phase models. <i>Magazine of Concrete Research</i> , 2017, 69, 134-144.	2.0	41
46	Performance and properties of mortar mixed with nano-CuO and rice husk ash. <i>Cement and Concrete Composites</i> , 2016, 74, 225-235.	10.7	68
47	Effect of carbonation on release of bound chlorides in chloride-contaminated concrete. <i>Magazine of Concrete Research</i> , 2016, 68, 353-363.	2.0	71
48	Multiphase modelling of ionic transport in cementitious materials with surface charges. <i>Computational Materials Science</i> , 2016, 111, 339-349.	3.0	30
49	Aggregate Shape Effect on Multicomponent Ionic Electromigration in Concrete. , 2016, , .		0
50	A three-phase, multi-component ionic transport model for simulation of chloride penetration in concrete. <i>Engineering Structures</i> , 2015, 86, 122-133.	5.3	117
51	A numerical study on chloride migration in cracked concrete using multi-component ionic transport models. <i>Computational Materials Science</i> , 2015, 99, 396-416.	3.0	73
52	Effect of carbonation on release of bound chlorides in chloride-contaminated concrete. <i>Magazine of Concrete Research</i> , 2015, , 1-11.	2.0	3
53	Three-phase modelling of electrochemical chloride removal from corroded steel-reinforced concrete. <i>Construction and Building Materials</i> , 2014, 70, 410-427.	7.2	65
54	Multi-phase modelling of ionic transport in concrete when subjected to an externally applied electric field. <i>Engineering Structures</i> , 2012, 42, 201-213.	5.3	62

#	ARTICLE	IF	CITATIONS
55	Experimental study on the utilization of waste foundry sand as embankment and structural fill. IOP Conference Series: Materials Science and Engineering, 0, 474, 012042.	0.6	15