Qingbin Li

List of Publications by Year in descending order

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101 papers	2,451 citations	201674 27 h-index	243625 44 g-index
102 all docs	102 docs citations	102 times ranked	2074 citing authors

#	Article	IF	Citations
1	Abaqus implementation of monolithic and staggered schemes for quasi-static and dynamic fracture phase-field model. Computational Materials Science, 2016, 121, 35-47.	3.0	167
2	Fracture toughness enhancement of cement paste with multi-walled carbon nanotubes. Construction and Building Materials, 2014, 70, 332-338.	7.2	156
3	An explanation for rate effect of concrete strength based on fracture toughness including free water viscosity. Engineering Fracture Mechanics, 2004, 71, 2319-2327.	4.3	100
4	Prediction of elastic modulus and Poissonâ€™s ratio for unsaturated concrete. International Journal of Solids and Structures, 2007, 44, 1370-1379.	2.7	91
5	Mechanics of Damage and Constitutive Relationships for High-Strength Concrete in Triaxial Compression. Journal of Engineering Mechanics - ASCE, 1999, 125, 1-10.	2.9	67
6	Behavior of concrete beam with embedded shape memory alloy wires. Engineering Structures, 2006, 28, 1691-1697.	5.3	66
7	Thermal analysis of mass concrete embedded with double-layer staggered heterogeneous cooling water pipes. Applied Thermal Engineering, 2012, 35, 145-156.	6.0	62
8	Experimental Study on the Bond Behavior of Reinforcing Bars Embedded in Concrete Subjected to Lateral Pressure. Journal of Materials in Civil Engineering, 2012, 24, 125-133.	2.9	60
9	Identification of a 6-Cytokine Prognostic Signature in Patients with Primary Glioblastoma Harboring M2 Microglia/Macrophage Phenotype Relevance. PLoS ONE, 2015, 10, e0126022.	2.5	59
10	Concrete Deterioration Mechanisms under Combined Sulfate Attack and Flexural Loading. Journal of Materials in Civil Engineering, 2013, 25, 39-44.	2.9	52
11	Modelling fracture process zone width and length for quasi-brittle fracture of rock, concrete and ceramics. Engineering Fracture Mechanics, 2022, 259, 108158.	4.3	48
12	Behavior of Smart Concrete Beams with Embedded Shape Memory Alloy Bundles. Journal of Intelligent Material Systems and Structures, 2007, 18, 1003-1014.	2.5	47
13	A Real-Time Location-Based Services System Using WiFi Fingerprinting Algorithm for Safety Risk Assessment of Workers in Tunnels. Mathematical Problems in Engineering, 2014, 2014, 1-10.	1.1	46
14	Unmanned rolling compaction system for rockfill materials. Automation in Construction, 2019, 100, 103-117.	9.8	46
15	Restrained cracking failure behavior of concrete due to temperature and shrinkage. Construction and Building Materials, 2020, 244, 118318.	7.2	46
16	Minimum specimen size for fracture parameters of site-casting dam concrete. Construction and Building Materials, 2015, 93, 973-982.	7.2	45
17	Saturation Effect on Dynamic Tensile and Compressive Strength of Concrete. Advances in Structural Engineering, 2009, 12, 279-286.	2.4	44
18	Fracture of 0.1 and 2 m long mortar beams under three-point-bending. Materials and Design, 2017, 133, 363-375.	7.0	44

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19	Comparative Analysis of Matrix Metalloproteinase Family Members Reveals That MMP9 Predicts Survival and Response to Temozolomide in Patients with Primary Glioblastoma. PLoS ONE, 2016, 11, e0151815.	2.5	42
20	Elasto-Plastic Bonding of Embedded Optical Fiber Sensors in Concrete. Journal of Engineering Mechanics - ASCE, 2002, 128, 471-478.	2.9	40
21	FE model for simulating wire-wrapping during prestressing of an embedded prestressed concrete cylinder pipe. Simulation Modelling Practice and Theory, 2010, 18, 624-636.	3.8	40
22	Hazard and seismic reinforcement analysis for typical large dams following the Wenchuan earthquake. Engineering Geology, 2015, 194, 86-97.	6.3	40
23	Equivalent maturity for ambient temperature effect on fracture parameters of site-casting dam concrete. Construction and Building Materials, 2016, 120, 293-308.	7.2	36
24	Quantification and Simulation of Particle Kinematics and Local Strains in Granular Materials Using X-Ray Tomography Imaging and Discrete-Element Method. Journal of Engineering Mechanics - ASCE, 2008, 134, 143-154.	2.9	35
25	Boolean-Based Surface Procedure for the External Heat Transfer Analysis of Dams during Construction. Mathematical Problems in Engineering, 2013, 2013, 1-17.	1.1	33
26	A theoretical method for determining initiation toughness based on experimental peak load. Engineering Fracture Mechanics, 2013, 99, 295-305.	4.3	32
27	Maturity model for fracture properties of concrete considering coupling effect of curing temperature and humidity. Construction and Building Materials, 2019, 196, 1-13.	7.2	30
28	Study on Optimal Grouting Timing for Controlling Uplift Deformation of a Super High Arch Dam. Rock Mechanics and Rock Engineering, 2016, 49, 115-142.	5.4	28
29	Behavior of Concrete in Water Subjected to Dynamic Triaxial Compression. Journal of Engineering Mechanics - ASCE, 2010, 136, 379-389.	2.9	27
30	A microscopic approach to rate effect on compressive strength of concrete. Engineering Fracture Mechanics, 2005, 72, 2316-2327.	4.3	26
31	Real-Time Monitoring System for Workers' Behaviour Analysis on a Large-Dam Construction Site. International Journal of Distributed Sensor Networks, 2013, 9, 509423.	2.2	26
32	Intelligent rolling compaction system for earth-rock dams. Automation in Construction, 2020, 116, 103246.	9.8	26
33	Model for measurement of thermal expansion coefficient of concrete by fiber optic sensor. International Journal of Solids and Structures, 2002, 39, 2927-2937.	2.7	25
34	Effect of the plastic coating on strain measurement of concrete by fiber optic sensor. Measurement: Journal of the International Measurement Confederation, 2003, 34, 215-227.	5.0	25
35	An efficient backward Euler time-integration method for nonlinear dynamic analysis of structures. Computers and Structures, 2012, 106-107, 20-28.	4.4	25
36	Fracture parameters of site-cast dam and sieved concrete. Magazine of Concrete Research, 2016, 68, 43-54.	2.0	25

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37	Bond Behavior of Plain Round Bars Embedded in Concrete Subjected to Biaxial Lateral Tensile-Compressive Stresses. Journal of Structural Engineering, 2014, 140, .	3.4	24
38	Dynamic damage constitutive model of concrete in uniaxial tension. Engineering Fracture Mechanics, 1996, 53, 449-455.	4.3	22
39	Damage constitutive of concrete under uniaxial alternate tensionâ€“compression fatigue loading based on double bounding surfaces. International Journal of Solids and Structures, 2004, 41, 3151-3166.	2.7	22
40	Comparison between Mechanical Properties of Dam and Sieved Concretes. Journal of Materials in Civil Engineering, 2008, 20, 321-326.	2.9	21
41	Double Feedback Control Method for Determining Early-Age Restrained Creep of Concrete Using a Temperature Stress Testing Machine. Materials, 2018, 11, 1079.	2.9	21
42	CTOD measurement for cracks in concrete by fiber optic sensors. Optics and Lasers in Engineering, 2004, 42, 377-388.	3.8	20
43	Coupled Thermo-Hydro-Mechanical Analysis of Valley Narrowing Deformation of High Arch Dam: A Case Study of the Xiluodu Project in China. Applied Sciences (Switzerland), 2020, 10, 524.	2.5	20
44	Behavior of Concrete Driven by Uniaxially Embedded Shape Memory Alloy Actuators. Journal of Engineering Mechanics - ASCE, 2003, 129, 697-703.	2.9	19
45	Noninvasive Measurement of Three-Dimensional Permanent Strains in Asphalt Concrete with X-Ray Tomography Imaging. Transportation Research Record, 2007, 2005, 95-103.	1.9	19
46	Experimental Study on Bond Behavior of Deformed Bars Embedded in Concrete Subjected to Biaxial Lateral Tensile Compressive Stresses. Journal of Materials in Civil Engineering, 2014, 26, 761-772.	2.9	19
47	Effect of the impounding process on the overall stability of a high arch dam: a case study of the Xiluodu dam, China. Arabian Journal of Geosciences, 2015, 8, 9023-9041.	1.3	18
48	Safety Monitoring of High Arch Dams in Initial Operation Period Using Vector Error Correction Model. Rock Mechanics and Rock Engineering, 2018, 51, 2469-2481.	5.4	18
49	Fiber optic 2-D sensor for measuring the strain inside the concrete specimen. Sensors and Actuators A: Physical, 2001, 94, 25-31.	4.1	17
50	Deterioration mechanisms of sulfate attack on concrete under alternate action. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 355-359.	1.0	17
51	Roller-Integrated Acoustic Wave Detection Technique for Rockfill Materials. Applied Sciences (Switzerland), 2017, 7, 1118.	2.5	17
52	A Flexible Network Structure for Temperature Monitoring of a Super High Arch Dam. International Journal of Distributed Sensor Networks, 2012, 8, 917849.	2.2	17
53	Rate effect of concrete strength under initial static loading. Engineering Fracture Mechanics, 2007, 74, 2311-2319.	4.3	16
54	Fracture and Tension Properties of Roller Compacted Concrete Cores in Uniaxial Tension. Journal of Materials in Civil Engineering, 2002, 14, 366-373.	2.9	15

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55	Calibration of embedded fiber optic sensor in concrete under biaxial compression. Measurement: Journal of the International Measurement Confederation, 2004, 35, 303-310.	5.0	15
56	Experimental study on the bond behavior of deformed bars embedded in concrete subjected to lateral tension. Materials and Structures/Materiaux Et Constructions, 2014, 47, 1647-1668.	3.1	15
57	A Review on Roller Compaction Quality Control and Assurance Methods for Earthwork in Five Application Scenarios. Materials, 2022, 15, 2610.	2.9	15
58	An extended finite element method for pipe-embedded plane thermal analysis. Finite Elements in Analysis and Design, 2015, 102-103, 52-64.	3.2	14
59	Vibration compaction process model for rockfill materials considering viscoelastic-plastic deformation. Automation in Construction, 2021, 131, 103889.	9.8	14
60	A beam segment element for dynamic analysis of large aqueducts. Finite Elements in Analysis and Design, 2003, 39, 1249-1258.	3.2	13
61	Effects of Outlets on Cracking Risk and Integral Stability of Super-High Arch Dams. Scientific World Journal, The, 2014, 2014, 1-19.	2.1	13
62	Transient elastic wave propagation in an infinite Timoshenko beam on viscoelastic foundation. International Journal of Solids and Structures, 2003, 40, 3211-3228.	2.7	12
63	Smart Monitoring of a Super High Arch Dam during the First Reservoir-Filling Phase. Journal of Aerospace Engineering, 2017, 30, .	1.4	12
64	Self-Developed Testing System for Determining the Temperature Behavior of Concrete. Materials, 2017, 10, 419.	2.9	12
65	Numerical Analysis on Temperature Rise of a Concrete Arch Dam after Sealing Based on Measured Data. Mathematical Problems in Engineering, 2014, 2014, 1-12.	1.1	10
66	Elevated temperature inversion phenomenon in fracture properties of concrete and its application to maturity model. Engineering Fracture Mechanics, 2018, 199, 294-307.	4.3	10
67	Damage constitutive for high strength concrete in triaxial cyclic compression. International Journal of Solids and Structures, 2002, 39, 4013-4025.	2.7	9
68	Elasto-plastic bond mechanics of embedded fiber optic sensors in concrete under uniaxial tension with strain localization. Smart Materials and Structures, 2003, 12, 851-858.	3.5	9
69	An efficient time-integration method for nonlinear dynamic analysis of solids and structures. Science China: Physics, Mechanics and Astronomy, 2013, 56, 798-804.	5.1	9
70	A Real-Time Temperature Data Transmission Approach for Intelligent Cooling Control of Mass Concrete. Mathematical Problems in Engineering, 2014, 2014, 1-10.	1.1	9
71	A Robust and Efficient Composite Time Integration Algorithm for Nonlinear Structural Dynamic Analysis. Mathematical Problems in Engineering, 2015, 2015, 1-11.	1.1	9
72	An interfacial layer element for finite element analysis of arch dams. Engineering Structures, 2016, 128, 400-414.	5.3	9

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73	A monitoring-mining-modeling system and its application to the temperature status of the Xiluodu arch dam. Advances in Structural Engineering, 2017, 20, 235-244.	2.4	9
74	Circumferential strain measurement of high strength concrete in triaxial compression by fiber optic sensor. International Journal of Solids and Structures, 2001, 38, 7607-7625.	2.7	8
75	The Influence of a Novel Hydrophobic Agent on the Internal Defect and Multi-Scale Pore Structure of Concrete. Materials, 2021, 14, 609.	2.9	8
76	An analytical model for the rotational behavior of concrete segmental joints with gaskets. Advances in Structural Engineering, 2019, 22, 2866-2881.	2.4	7
77	Fracture Properties of Concrete in Dry Environments with Different Curing Temperatures. Applied Sciences (Switzerland), 2020, 10, 4734.	2.5	7
78	XFEM for Thermal Crack of Massive Concrete. Mathematical Problems in Engineering, 2013, 2013, 1-9.	1.1	6
79	Circumferential strain measurement for a concrete cylinder in uniaxial compression by a fiber optic sensor. Experimental Mechanics, 2002, 42, 37-42.	2.0	5
80	One-Dimensional Constitutive Model of Shape Memory Alloy with an Empirical Kinetics Equation. Journal of Metallurgy, 2011, 2011, 1-14.	1.1	5
81	Data Mining of the Thermal Performance of Cool-Pipes in Massive Concrete via In Situ Monitoring. Mathematical Problems in Engineering, 2014, 2014, 1-15.	1.1	5
82	Determination of Fracture Properties of Concrete Using Size and Boundary Effect Models. Applied Sciences (Switzerland), 2019, 9, 1337.	2.5	5
83	A Simplified Method for Real-Time Prediction of Temperature in Mass Concrete at Early Age. Applied Sciences (Switzerland), 2020, 10, 4451.	2.5	5
84	The control-theory-based artificial boundary conditions for time-dependent wave guide problems in unbounded domain. Communications in Numerical Methods in Engineering, 2005, 21, 691-700.	1.3	4
85	Effect of strain rate on tensile strength of defective silicon nanorods. Acta Mechanica Solida Sinica, 2015, 28, 133-144.	1.9	4
86	Wet swelling effect on crack performance of facing concrete for rockfill dams. Magazine of Concrete Research, 2017, 69, 1055-1066.	2.0	3
87	Modelling the Strength and Fracture Parameters of Dam Gallery Concrete Considering Ambient Temperature and Humidity. Buildings, 2022, 12, 168.	3.1	3
88	Stress Concentration Factor as a Performance Indicator for Asphalt Mixes. , 2007, , .		2
89	An experimental investigation on the impermeability and durability of concrete with a novel and multifunctional hydrophobic admixture addition. Structural Concrete, 2022, 23, 836-848.	3.1	2
90	Shear Lag Model for Embedded Interferometric Optical Fiber Sensors. , 2000, , 57.		1

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91	DYNAMIC PERFORMANCE OF CANTILEVER COMPOSITE MORTAR BEAMS WITH ELECTRO-RHEOLOGICAL FLUID. International Journal of Modern Physics B, 2005, 19, 1703-1709.	2.0	1
92	Interaction Model for a Hi-Bi Fiber Optic Ultrasonic Sensor and the Host Material. Journal of Intelligent Material Systems and Structures, 2007, 18, 875-878.	2.5	1
93	Micromechanics model for static and dynamic strength of concrete under confinement. Frontiers of Architecture and Civil Engineering in China, 2008, 2, 329-335.	0.4	1
94	Contributions of Flexible-Arch Configurations in Shimenzi Arch Dam: New Evidence from Field Measurements. Mathematical Problems in Engineering, 2014, 2014, 1-9.	1.1	1
95	Finite Incremental Constitutive Equations for the SHRP Viscoplasticity Model. , 2008, , .		0
96	Applications of SMA Bundles in Practical Concrete Structures. , 0, , .		0
97	Erratum to â€œData Mining of the Thermal Performance of Cool-Pipes in Massive Concrete via In Situ Monitoringâ€• Mathematical Problems in Engineering, 2014, 2014, 1-2.	1.1	0
98	Closure to â€œExperimental Study on Bond Behavior of Deformed Bars Embedded in Concrete Subjected to Biaxial Lateral Tensile Compressive Stressesâ€•by Xue Zhang, Zhimin Wu, Jianjun Zheng, Yu Hu, and Qingbin Li. Journal of Materials in Civil Engineering, 2015, 27, 07015006.	2.9	0
99	DYNAMIC PERFORMANCE OF CANTILEVER COMPOSITE MORTAR BEAMS WITH ELECTRO-RHEOLOGICAL FLUID. , 2005, , .		0
100	Monitoring of a Smart Concrete Beam. , 2005, , 209-218.		0
101	Ensemble Learning-Aided Hydrothermal Coupling Investigation on Dam Impoundment Impact: A Case Study of the Xiluodu Project in China. Lithosphere, 2022, 2022, .	1.4	0