List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Analytical examination of mesh-dependency issue for uniaxial RC elements and new fracture energy-based regularization technique. International Journal of Damage Mechanics, 2023, 32, 321-339.	4.2	5
2	Random fields representation over manifolds via isometric feature mappingâ€based dimension reduction. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 593-611.	9.8	15
3	Efficient stochastic finite element analysis of irregular wall structures with inelastic random field properties over manifold. Computational Mechanics, 2022, 69, 95-111.	4.0	12
4	Temporally stabilized peridynamics methods for shocks in solids. Computational Mechanics, 2022, 69, 489-504.	4.0	0
5	A subcritical microcrack informed creep-damage model for quasi-brittle materials. Computers and Geotechnics, 2022, 141, 104501.	4.7	4
6	Numerical modeling of delayed damage and failure of concrete structures under sustained loading. Engineering Structures, 2022, 252, 113568.	5.3	5
7	A Temporal Multiscale Model for Fatigue Damage of Concrete. Journal of Engineering Mechanics - ASCE, 2022, 148, .	2.9	4
8	Slip-enhanced plastic-damage constitutive model for masonry structures. Engineering Structures, 2022, 254, 113792.	5.3	5
9	Fragility analysis of a prestressed concrete containment vessel subjected to internal pressure via the probability density evolution method. Nuclear Engineering and Design, 2022, 390, 111709.	1.7	15
10	Probabilistic Analysis on Stochastic Failure Modes of Reinforced Concrete Beams under Fatigue Loading. Journal of Engineering Mechanics - ASCE, 2022, 148, .	2.9	0
11	Effects of bedrocks on the dynamic response of concrete gravity dams subjected to underwater explosions. Engineering Failure Analysis, 2022, 139, 106410.	4.0	5
12	Failure modeling of concrete: A peri-dynamical approach with bond-based correspondence to bi-scalar damage model. Engineering Fracture Mechanics, 2022, 268, 108470.	4.3	5
13	Modeling of unstable creep failure of spatial variable rocks subjected to sustained loading. Computers and Geotechnics, 2022, 148, 104847.	4.7	4
14	Rate effect on the stress–strain behavior of concrete under uniaxial tensile stress. Structural Concrete, 2021, 22, E815.	3.1	12
15	Implicit gradientâ€enhanced forceâ€based Timoshenko fiber element formulation for reinforced concrete structures. International Journal for Numerical Methods in Engineering, 2021, 122, 325-347.	2.8	5
16	On the combination of nonlinear load effects of structures. Structural Safety, 2021, 90, 102064.	5.3	2
17	Uncertainty Quantification of Random Fields Based on Spatially Sparse Data by Synthesizing Bayesian Compressive Sensing and Stochastic Harmonic Function. Mechanical Systems and Signal Processing, 2021, 153, 107377.	8.0	12
18	Effects of spatial variability of ground motions on collapse behaviour of buildings. Soil Dynamics and Earthquake Engineering, 2021, 144, 106668.	3.8	7

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19	Random transition of failure modes in concrete shear walls with constitutive parameters involving spatial variation. Engineering Structures, 2021, 242, 112508.	5.3	5
20	Experimental study on stochastic responses of reinforced concrete beams under fatigue loading. International Journal of Fatigue, 2021, 151, 106347.	5.7	4
21	Two-scale random field model for quasi-brittle materials. Probabilistic Engineering Mechanics, 2021, 66, 103154.	2.7	5
22	High-fidelity numerical analysis of the damage and failure mechanisms of a prestressed concrete containment vessel under internal pressure. Nuclear Engineering and Design, 2021, 383, 111439.	1.7	14
23	A two-scale stochastic damage model for concrete under fatigue loading. International Journal of Fatigue, 2021, 153, 106508.	5.7	15
24	Computational investigation on damage of reinforced concrete slab subjected to underwater explosion. Ocean Engineering, 2020, 195, 106671.	4.3	25
25	Copula-Based Quantification of Probabilistic Dependence Configurations of Material Parameters in Damage Constitutive Modeling of Concrete. Journal of Structural Engineering, 2020, 146, .	3.4	29
26	A Multifield Model for Early-Age Massive Concrete Structures: Hydration, Damage, and Creep. Journal of Engineering Mechanics - ASCE, 2020, 146, .	2.9	13
27	A shake table test study of reinforced concrete shear wall model structures exhibiting strong non-linear behaviors. Engineering Structures, 2020, 212, 110481.	5.3	13
28	Energy-based collapse assessment of concrete structures subjected to random damage evolutions. Probabilistic Engineering Mechanics, 2020, 60, 103019.	2.7	11
29	Failure mechanisms of pedicle screws and cortical screws fixation under large displacement: A biomechanical and microstructural study based on a clinical case scenario. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103646.	3.1	8
30	An improved crack-tip element treatment for advanced FEMs. Theoretical and Applied Fracture Mechanics, 2020, 108, 102587.	4.7	4
31	Coupled Creep-Damage-Plasticity Model for Concrete under Long-Term Loading. Journal of Engineering Mechanics - ASCE, 2020, 146, .	2.9	16
32	Introduction to the Special Issue Numerical Modeling and Simulation for Structural Safety and Disaster Mitigation. CMES - Computer Modeling in Engineering and Sciences, 2020, 124, 411-413.	1.1	0
33	Building Information Model–based finite element analysis of high-rise building community subjected to extreme earthquakes. Advances in Structural Engineering, 2019, 22, 971-981.	2.4	13
34	Physical Mechanism of Concrete Damage under Compression. Materials, 2019, 12, 3295.	2.9	6
35	Centrifuge experiment and numerical analysis of an air-backed plate subjected to underwater shock loading. Frontiers of Structural and Civil Engineering, 2019, 13, 1350-1362.	2.9	2
36	Numerical Investigation on Damage of Concrete Gravity Dam during Noncontact Underwater Explosion. Journal of Performance of Constructed Facilities, 2019, 33, .	2.0	21

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37	Experimental investigations of failure modes of reinforced concrete beams without web reinforcement. Engineering Structures, 2019, 185, 47-57.	5.3	12
38	Equivalent constant-amplitude fatigue load method based on the energy equivalence principle. Advances in Structural Engineering, 2019, 22, 2892-2906.	2.4	3
39	Nonlinear dynamic analysis of frame-core tube building under seismic sequential ground motions by a supercomputer. Soil Dynamics and Earthquake Engineering, 2019, 124, 86-97.	3.8	23
40	Multiscale Random Fields-Based Damage Modeling and Analysis of Concrete Structures. Journal of Engineering Mechanics - ASCE, 2019, 145, .	2.9	11
41	Probabilistic model of the minimum effective cross-section area of non-uniform corroded steel bars. Construction and Building Materials, 2019, 216, 227-238.	7.2	18
42	Physically based constitutive modeling of concrete fatigue and practical numerical method for cyclic loading simulation. Engineering Failure Analysis, 2019, 101, 230-242.	4.0	12
43	Stochastic analysis of fatigue of concrete bridges. Structure and Infrastructure Engineering, 2019, 15, 925-939.	3.7	21
44	Fatigue reliability analysis of concrete structures based on physical synthesis method. Probabilistic Engineering Mechanics, 2019, 56, 14-26.	2.7	17
45	Analytic solution for the bond stress-slip relationship between rebar and concrete. Construction and Building Materials, 2019, 197, 385-397.	7.2	37
46	Development and initial validation of a novel smoothedâ€particle hydrodynamicsâ€based simulation model of trabecular bone penetration by metallic implants. Journal of Orthopaedic Research, 2018, 36, 1114-1123.	2.3	4
47	Cyclic behavior modeling of reinforced concrete shear walls based on softened damage-plasticity model. Engineering Structures, 2018, 166, 363-375.	5.3	52
48	A novel fracture mechanics model explaining the axial penetration of bone-like porous, compressible solids by various orthopaedic implant tips. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 80, 128-136.	3.1	3
49	Seismic behavior of tall buildings using steel–concrete composite columns and shear walls. Structural Design of Tall and Special Buildings, 2018, 27, e1441.	1.9	10
50	Softened Damage-Plasticity Model for Analysis of Cracked Reinforced Concrete Structures. Journal of Structural Engineering, 2018, 144, .	3.4	73
51	A mesh-size-objective modeling of quasi-brittle material using micro-cell informed damage law. International Journal of Damage Mechanics, 2018, 27, 913-936.	4.2	8
52	Stochastic seismic collapse and reliability assessment of highâ€rise reinforced concrete structures. Structural Design of Tall and Special Buildings, 2018, 27, e1417.	1.9	25
53	Reliability assessment of reinforced concrete structures based on random damage model. Structure and Infrastructure Engineering, 2018, 14, 780-790.	3.7	7
54	Assessing the spatial variability of the concrete by the rebound hammer test and compression test of drilled cores. Construction and Building Materials, 2018, 188, 820-832.	7.2	42

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55	Probabilistic Model for Long-Term Time-Dependent Compressive Strength of Concrete in Existing Buildings. Journal of Performance of Constructed Facilities, 2018, 32, .	2.0	5
56	Bond behavior between steel reinforcing bars and concrete under dynamic loads. Structural Concrete, 2018, 19, 1806-1817.	3.1	17
57	Indentation tests based multi-scale random media modeling of concrete. Construction and Building Materials, 2018, 168, 209-220.	7.2	20
58	A New Reliability Method Combining Kriging and Probability Density Evolution Method. International Journal of Structural Stability and Dynamics, 2017, 17, 1750113.	2.4	13
59	Mechanical properties of underpinning joints in structural moving: Experiments and numerical modeling. Structural Design of Tall and Special Buildings, 2017, 26, e1379.	1.9	7
60	Incremental dynamic analysis of seismic collapse of superâ€ŧall building structures. Structural Design of Tall and Special Buildings, 2017, 26, e1370.	1.9	28
61	A study on the simulation method for fatigue damage behavior of reinforced concrete structures. Engineering Structures, 2017, 150, 25-38.	5.3	19
62	Compressive behavior of stirrup-confined concrete under dynamic loading. Construction and Building Materials, 2017, 154, 10-22.	7.2	16
63	Collapse simulation of reinforced concrete frame structures. Structural Design of Tall and Special Buildings, 2016, 25, 578-601.	1.9	63
64	Stochastic damage hysteretic model for concrete based on micromechanical approach. International Journal of Non-Linear Mechanics, 2016, 83, 15-25.	2.6	36
65	Stochastic Nonlinear Behavior of Reinforced Concrete Frames. I: Experimental Investigation. Journal of Structural Engineering, 2016, 142, .	3.4	30
66	Stochastic Nonlinear Behavior of Reinforced Concrete Frames. II: Numerical Simulation. Journal of Structural Engineering, 2016, 142, .	3.4	65
67	A competitive mechanism driven damage-plasticity model for fatigue behavior of concrete. International Journal of Damage Mechanics, 2016, 25, 377-399.	4.2	28
68	A Micro-Cell Size Dependent Damage Law of Concrete. Applied Mechanics and Materials, 2015, 784, 200-208.	0.2	0
69	A rate-dependent stochastic damage–plasticity model for quasi-brittle materials. Computational Mechanics, 2015, 55, 267-285.	4.0	89
70	A random medium model for simulation of concrete failure. Science China Technological Sciences, 2013, 56, 1273-1281.	4.0	26
71	Multi-scale based fracture and damage analysis of steel fiber reinforced concrete. Engineering Failure Analysis, 2013, 35, 253-261.	4.0	31
72	Dynamic Initiation and Propagation of Multiple Cracks in Brittle Materials. Materials, 2013, 6, 3241-3253.	2.9	14

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73	Stochastic Harmonic Function Representation of Stochastic Processes. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	2.2	118
74	Triaxial Behavior of Concrete Subjected to Dynamic Compression. Journal of Structural Engineering, 2013, 139, 1582-1592.	3.4	36
75	A unified dynamic model for concrete considering viscoplasticity and rate-dependent damage. International Journal of Damage Mechanics, 2013, 22, 530-555.	4.2	37
76	Dynamic fracture in irregularly structured systems. Physical Review E, 2012, 85, 055102.	2.1	22
77	Micro-cracks informed damage models for brittle solids. International Journal of Solids and Structures, 2011, 48, 1560-1571.	2.7	39
78	Multi-scale based stochastic damage evolution. Engineering Failure Analysis, 2011, 18, 726-734.	4.0	19
79	Pragmatic analysis of material instability under strain control loading. Engineering Failure Analysis, 2011, 18, 720-725.	4.0	1
80	Hysteretic deteriorating model for quasi-brittle materials based on micromechanical damage approach. International Journal of Non-Linear Mechanics, 2011, 46, 321-329.	2.6	13
81	Stochastic damage model for concrete based on energy equivalent strain. International Journal of Solids and Structures, 2009, 46, 2407-2419.	2.7	159
82	Experimental investigation on the bond of reinforcing bars in high performance concrete under cyclic loading. Materials and Structures/Materiaux Et Constructions, 2007, 40, 1027-1044.	3.1	37
83	An energy release rate-based plastic-damage model for concrete. International Journal of Solids and Structures, 2006, 43, 583-612.	2.7	451
84	Heterogeneous Lattice Model Based Simulation of Concrete under Uniaxial Loading. Applied Mechanics and Materials, 0, 784, 249-257.	0.2	1
85	Damage Theory Based Fatigue Simulation of Concrete Structure. Applied Mechanics and Materials, 0, 784, 51-58.	0.2	0