ZdenÄ›k P BaÅ¾ant

List of Publications by Year
in descending order

282 papers	22,154 citations	10389 72 h-index	10734 138 g-index
298 all docs	298 docs citations	298 times ranked	7376 citing authors

#	Article	IF	Citations
1	Nonlocal Damage Theory. Journal of Engineering Mechanics - ASCE, 1987, 113, 1512-1533.	2.9	1,551
2	Crack band theory for fracture of concrete. Materiaux Et Constructions, 1983, 16, 155-177.	0.3	1,456
3	Size Effect in Blunt Fracture: Concrete, Rock, Metal. Journal of Engineering Mechanics - ASCE, 1984, 110, 518-535.	2.9	1,308
4	Nonlocal Integral Formulations of Plasticity and Damage: Survey of Progress. Journal of Engineering Mechanics - ASCE, 2002, 128, 1119-1149.	2.9	1,018
5	Continuum Theory for Strainâ€Softening. Journal of Engineering Mechanics - ASCE, 1984, 110, 1666-1692.	2.9	529
6	Random Particle Model for Fracture of Aggregate or Fiber Composites. Journal of Engineering Mechanics - ASCE, 1990, 116, 1686-1705.	2.9	442
7	Concrete fracture models: testing and practice. Engineering Fracture Mechanics, 2002, 69, 165-205.	4.3	404
8	Microprestress-Solidification Theory for Concrete Creep.â€ƒI: Aging and Drying Effects. Journal of Engineering Mechanics - ASCE, 1997, 123, 1188-1194.	2.9	367
9	Instability, Ductility, and Size Effect in Strain-Softening Concrete. Journal of the Engineering Mechanics Division, 1976, 102, 331-344.	0.4	344
10	Statistical prediction of fracture parameters of concrete and implications for choice of testing standard. Cement and Concrete Research, 2002, 32, 529-556.	11.0	341
11	Solidification Theory for Concrete Creep. I: Formulation. Journal of Engineering Mechanics - ASCE, 1989, 115, 1691-1703.	2.9	323
12	Microplane Model for Progressive Fracture of Concrete and Rock. Journal of Engineering Mechanics - ASCE, 1985, 111, 559-582.	2.9	286
13	Microplane Model for Brittleâ€Plastic Material: I. Theory. Journal of Engineering Mechanics - ASCE, 1988, 114, 1672-1688.	2.9	253
14	Moisture diffusion in cementitious materials Adsorption isotherms. Advanced Cement Based Materials, 1994, 1, 248-257.	0.3	251
15	Confinement-Shear Lattice Model for Concrete Damage in Tension and Compression: I. Theory. Journal of Engineering Mechanics - ASCE, 2003, 129, 1439-1448.	2.9	242
16	Microplane Model M4 for Concrete. I: Formulation with Work-Conjugate Deviatoric Stress. Journal of Engineering Mechanics - ASCE, 2000, 126, 944-953.	2.9	241
17	Prediction of concrete creep and shrinkage: past, present and future. Nuclear Engineering and Design, 2001, 203, 27-38.	1.7	233
18	Activation energy based extreme value statistics and size effect in brittle and quasibrittle fracture. Journal of the Mechanics and Physics of Solids, 2007, 55, 91-131.	4.8	212

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19	Scaling theory for quasibrittle structural failure. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13400-13407.	7.1	207
20	Non-local yield limit degradation. International Journal for Numerical Methods in Engineering, 1988, 26, 1805-1823.	2.8	201
21	Blunt Crack Band Propagation in Finite Element Analysis. Journal of the Engineering Mechanics Division, 1979, 105, 297-315.	0.4	188
22	Excessive Long-Time Deflections of Prestressed Box Girders. I: Record-Span Bridge in Palau and Other Paradigms. Journal of Structural Engineering, 2012, 138, 676-686.	3.4	182
23	Crack Shear in Concrete: Crack Band Microflane Model. Journal of Structural Engineering, 1984, 110, 2015-2035.	3.4	181
24	Wave Propagation in a Strainâ€Softening Bar:Exact Solution. Journal of Engineering Mechanics - ASCE, 1985, 111, 381-389.	2.9	179
25	Drying creep of concrete: constitutive model and new experiments separating its mechanisms. Materiaux Et Constructions, 1994, 27, 3-14.	0.3	177
26	Nonlocal Damage Theory Based on Micromechanics of Crack Interactions. Journal of Engineering Mechanics - ASCE, 1994, 120, 593-617.	2.9	164
27	Nonlinear Fracture Properties from Size Effect Tests. Journal of Structural Engineering, 1986, 112, 289-307.	3.4	160
28	Size Effect in Compression Fracture: Splitting Crack Band Propagation. Journal of Engineering Mechanics - ASCE, 1997, 123, 162-172.	2.9	160
29	Size Effect in Fracture of Ceramics and Its Use To Determine Fracture Energy and Effective Process Zone Length. Journal of the American Ceramic Society, 1990, 73, 1841-1853.	3.8	159
30	Temperature Effect on Concrete Creep Modeled by Microprestress-Solidification Theory. Journal of Engineering Mechanics - ASCE, 2004, 130, 691-699.	2.9	159
31	Unified nano-mechanics based probabilistic theory of quasibrittle and brittle structures: I. Strength, static crack growth, lifetime and scaling. Journal of the Mechanics and Physics of Solids, 2011, 59, 1291-1321.	4.8	150
32	Damage and plasticity in microplane theory. International Journal of Solids and Structures, 1997, 34, 3807-3835.	2.7	149
33	Why Fracking Works. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	2.2	147
34	Solidification Theory for Concrete Creep. II: Verification and Application. Journal of Engineering Mechanics - ASCE, 1989, 115, 1704-1725.	2.9	142
35	Justification and refinements of model B3 for concrete creep and shrinkage 1. statistics and sensitivity. Materiaux Et Constructions, 1995, 28, 415-430.	0.3	142
36	Mechanics of Progressive Collapse: Learning from World Trade Center and Building Demolitions. Journal of Engineering Mechanics - ASCE, 2007, 133, 308-319.	2.9	140

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37	Microplane Model for Concrete. I: Stress-Strain Boundaries and Finite Strain. Journal of Engineering Mechanics - ASCE, 1996, 122, 245-254.	2.9	138
38	Cohesive Crack with Rate-Dependent Opening and Viscoelasticity: I. Mathematical Model and Scaling. International Journal of Fracture, 1997, 86, 247-265.	2.2	131
39	Comprehensive concrete fracture tests: Description and results. Engineering Fracture Mechanics, 2013, 114, 92-103.	4.3	131
40	Microplane Model M7 for Plain Concrete. I: Formulation. Journal of Engineering Mechanics - ASCE, 2013, 139, 1714-1723.	2.9	129
41	Statistical Size Effect in Quasiâ€Brittle Structures: II. Nonlocal Theory. Journal of Engineering Mechanics - ASCE, 1991, 117, 2623-2640.	2.9	125
42	Is the cause of size effect on structural strength fractal or energeticâ€“statistical?. Engineering Fracture Mechanics, 2005, 72, 1-31.	4.3	123
43	Fracture Mechanics of ASR in Concretes with Waste Glass Particles of Different Sizes. Journal of Engineering Mechanics - ASCE, 2000, 126, 226-232.	2.9	118
44	Universal Size Effect Law and Effect of Crack Depth on Quasi-Brittle Structure Strength. Journal of Engineering Mechanics - ASCE, 2009, 135, 78-84.	2.9	116
45	Endochronic inelasticity and incremental plasticity. International Journal of Solids and Structures, 1978, 14, 691-714.	2.7	115
46	Designing Against Size Effect on Shear Strength of Reinforced Concrete Beams Without Stirrups: I. Formulation. Journal of Structural Engineering, 2005, 131, 1877-1885.	3.4	108
47	Continuous Retardation Spectrum for Solidification Theory of Concrete Creep. Journal of Engineering Mechanics - ASCE, 1995, 121, 281-288.	2.9	107
48	Confinement-Shear Lattice Model for Concrete Damage in Tension and Compression: II. Computation and Validation. Journal of Engineering Mechanics - ASCE, 2003, 129, 1449-1458.	2.9	105
49	Probability distribution of energetic-statistical size effect in quasibrittle fracture. Probabilistic Engineering Mechanics, 2004, 19, 307-319.	2.7	105
50	Microplane Model M4 for Concrete. II: Algorithm and Calibration. Journal of Engineering Mechanics - ASCE, 2000, 126, 954-961.	2.9	104
51	Creep and Hygrothermal Effects in Concrete Structures. Solid Mechanics and Its Applications, 2018, , .	0.2	103
52	Fracturing Rate Effect and Creep in Microplane Model for Dynamics. Journal of Engineering Mechanics - ASCE, 2000, 126, 962-970.	2.9	102
53	Comprehensive concrete fracture tests: Size effects of Types 1 & 2, crack length effect and postpeak. Engineering Fracture Mechanics, 2013, 110, 281-289.	4.3	100
54	Mechanics-based statistics of failure risk of quasibrittle structures and size effect on safety factors. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9434-9439.	7.1	98

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55	Universal Size-Shape Effect Law Based on Comprehensive Concrete Fracture Tests. Journal of Engineering Mechanics - ASCE, 2014, 140, 473-479.	2.9	95
56	Scaling of strength and lifetime probability distributions of quasibrittle structures based on atomistic fracture mechanics. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11484-11489.	7.1	94
57	Microprestress-Solidification Theory for Concrete Creep.â€ƒII: Algorithm and Verification. Journal of Engineering Mechanics - ASCE, 1997, 123, 1195-1201.	2.9	93
58	Cohesive crack, size effect, crack band and work-of-fracture models compared to comprehensive concrete fracture tests. International Journal of Fracture, 2014, 187, 133-143.	2.2	89
59	Viscoelasticity with Aging Caused by Solidification of Nonaging Constituent. Journal of Engineering Mechanics - ASCE, 1993, 119, 2252-2269.	2.9	88
60	Analysis of Work-of-Fracture Method for Measuring Fracture Energy of Concrete. Journal of Engineering Mechanics - ASCE, 1996, 122, 138-144.	2.9	88
61	Stochastic discrete meso-scale simulations of concrete fracture: Comparison to experimental data. Engineering Fracture Mechanics, 2015, 135, 1-16.	4.3	87
62	Size dependence of concrete fracture energy determined by RILEM work-of-fracture method. International Journal of Fracture, 1991, 51, 121-138.	2.2	87
63	Theory of Creep and Shrinkage in Concrete Structures: A PrÃ©cis of Recent Developments. , 1975, , 1-93.		84
64	Size effect on compression strength of fiber composites failing by kink band propagation. International Journal of Fracture, 1999, 95, 103-141.	2.2	84
65	Justification and refinements of model B3 for concrete creep and shrinkage 2. Updating and theoretical basis. Materiaux Et Constructions, 1995, 28, 488-495.	0.3	83
66	Modulus of Rupture: Size Effect due to Fracture Initiation in Boundary Layer. Journal of Structural Engineering, 1995, 121, 739-746.	3.4	80
67	Statistical justification of Model B4 for drying and autogenous shrinkage of concrete and comparisons to other models. Materials and Structures/Materiaux Et Constructions, 2015, 48, 797-814.	3.1	80
68	Wave Dispersion and Basic Concepts of Peridynamics Compared to Classical Nonlocal Damage Models. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	2.2	80
69	Probabilistic Nonlocal Theory for Quasibrittle Fracture Initiation and Size Effect.â€ƒI: Theory. Journal of Engineering Mechanics - ASCE, 2000, 126, 166-174.	2.9	79
70	Nonlocal microplane model with strain-softening yield limits. International Journal of Solids and Structures, 2004, 41, 7209-7240.	2.7	78
71	Comment on Orthotropic Models for Concrete and Geomaterials. Journal of Engineering Mechanics - ASCE, 1983, 109, 849-865.	2.9	77
72	Softening in Reinforced Concrete Beams and Frames. Journal of Structural Engineering, 1987, 113, 2333-2347.	3.4	77

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73	Large-Strain Generalization of Microplane Model for Concrete and Application. Journal of Engineering Mechanics - ASCE, 2000, 126, 971-980.	2.9	75
74	Size effect law and fracture mechanics of the triggering of dry snow slab avalanches. Journal of Geophysical Research, 2003, 108, .	3.3	75
75	Random Lattice-Particle Simulation of Statistical Size Effect in Quasi-Brittle Structures Failing at Crack Initiation. Journal of Engineering Mechanics - ASCE, 2009, 135, 85-92.	2.9	75
76	Cement hydration from hours to centuries controlled by diffusion through barrier shells of C-S-H. Journal of the Mechanics and Physics of Solids, 2017, 99, 211-224.	4.8	75
77	Variable-notch one-size test method for fracture energy and process zone length. Engineering Fracture Mechanics, 1996, 55, 383-404.	4.3	74
78	Microplane Model for Brittleâ€Plastic Material: II. Verification. Journal of Engineering Mechanics - ASCE, 1988, 114, 1689-1702.	2.9	73
79	Microplane Model M7 for Plain Concrete. II: Calibration and Verification. Journal of Engineering Mechanics - ASCE, 2013, 139, 1724-1735.	2.9	73
80	Asymptotic Prediction of Energetic-Statistical Size Effect from Deterministic Finite-Element Solutions. Journal of Engineering Mechanics - ASCE, 2007, 133, 153-162.	2.9	72
81	Random Creep and Shrinkage in Structures: Ampling. Journal of Structural Engineering, 1985, 111, 1113-1134.	3.4	71
82	Can Stirrups Suppress Size Effect on Shear Strength of RC Beams?. Journal of Structural Engineering, 2011, 137, 607-617.	3.4	71
83	Experimental and numerical investigation of intra-laminar energy dissipation and size effect in two-dimensional textile composites. Composites Science and Technology, 2016, 135, 67-75.	7.8	71
84	Theory of cyclic creep of concrete based on Paris law for fatigue growth of subcritical microcracks. Journal of the Mechanics and Physics of Solids, 2014, 63, 187-200.	4.8	70
85	Size effect in Paris law and fatigue lifetimes for quasibrittle materials: Modified theory, experiments and micro-modeling. International Journal of Fatigue, 2016, 83, 209-220.	5.7	69
86	Fracture energy release and size effect in borehole breakout. International Journal for Numerical and Analytical Methods in Geomechanics, 1993, 17, 1-14.	3.3	68
87	Unified nano-mechanics based probabilistic theory of quasibrittle and brittle structures: II. Fatigue crack growth, lifetime and scaling. Journal of the Mechanics and Physics of Solids, 2011, 59, 1322-1337.	4.8	68
88	Statistical justification of model B4 for multi-decade concrete creep using laboratory and bridge databases and comparisons to other models. Materials and Structures/Materiaux Et Constructions, 2015, 48, 815-833.	3.1	61
89	Spurious reflection of elastic waves due to gradually changing finite element size. International Journal for Numerical Methods in Engineering, 1983, 19, 631-646.	2.8	60
90	Microplane Model for Cyclic Triaxial Behavior of Concrete. Journal of Engineering Mechanics - ASCE, 1992, 118, 1365-1386.	2.9	59

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91	Microplane Model M5 with Kinematic and Static Constraints for Concrete Fracture and Anelasticity. I: Theory. Journal of Engineering Mechanics - ASCE, 2005, 131, 31-40.	2.9	59
92	Equivalent localization element for crack band approach to mesh-sensitivity in microplane model. International Journal for Numerical Methods in Engineering, 2005, 62, 700-726.	2.8	58
93	Spherocylindrical microplane constitutive model for shale and other anisotropic rocks. Journal of the Mechanics and Physics of Solids, 2017, 103, 155-178.	4.8	58
94	Choice of standard fracture test for concrete and its statistical evaluation. International Journal of Fracture, 2002, 118, 303-337.	2.2	57
95	New perspective of fracture mechanics inspired by gap test with crack-parallel compression. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14015-14020.	7.1	56
96	Energeticâ€“statistical size effect simulated by SFEM with stratified sampling and crack band model. International Journal for Numerical Methods in Engineering, 2007, 71, 1297-1320.	2.8	53
97	Optimization method, choice of form and uncertainty quantification of Model B4 using laboratory and multi-decade bridge databases. Materials and Structures/Materiaux Et Constructions, 2015, 48, 771-796.	3.1	53
98	R-curve modeling of rate and size effects in quasibrittle fracture. International Journal of Fracture, 1993, 62, 355-373.	2.2	53
99	Designing Against Size Effect on Shear Strength of Reinforced Concrete Beams Without Stirrups: II. Verification and Calibration. Journal of Structural Engineering, 2005, 131, 1886-1897.	3.4	52
100	Size-Effect Testing of Cohesive Fracture Parameters and Nonuniqueness of Work-of-Fracture Method. Journal of Engineering Mechanics - ASCE, 2011, 137, 580-588.	2.9	52
101	Zero-Brittleness Size-Effect Method for One-Size Fracture Test of Concrete. Journal of Engineering Mechanics - ASCE, 1996, 122, 458-468.	2.9	51
102	Microplane damage model for fatigue of quasibrittle materials: Sub-critical crack growth, lifetime and residual strength. International Journal of Fatigue, 2015, 70, 93-105.	5.7	51
103	Comprehensive Database for Concrete Creep and Shrinkage: Analysis and Recommendations for Testing and Recording. ACI Materials Journal, 2015, 112, .	0.2	51
104	Improved prediction model for time-dependent deformations of concrete: Part 1-Shrinkage. Materiaux Et Constructions, 1991, 24, 327-345.	0.3	50
105	Branching of hydraulic cracks enabling permeability of gas or oil shale with closed natural fractures. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1532-1537.	7.1	49
106	Gap Test of Crack-Parallel Stress Effect on Quasibrittle Fracture and Its Consequences. Journal of Applied Mechanics, Transactions ASME, 2020, 87, .	2.2	49
107	Geometric Damage Tensor Based on Microplane Model. Journal of Engineering Mechanics - ASCE, 1991, 117, 2429-2448.	2.9	48
108	Compression Failure of Quasibrittle Material: Nonlocal Microplane Model. Journal of Engineering Mechanics - ASCE, 1992, 118, 540-556.	2.9	48

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109	Problems with Hu-Duan Boundary Effect Model and Its Comparison to Size-Shape Effect Law for Quasi-Brittle Fracture. Journal of Engineering Mechanics - ASCE, 2010, 136, 40-50.	2.9	48
110	Comparison of the Hu-Duan Boundary Effect Model with the Size-Shape Effect Law for Quasi-Brittle Fracture Based on New Comprehensive Fracture Tests. Journal of Engineering Mechanics - ASCE, 2014, 140, 480-486.	2.9	48
111	Sandwich buckling formulas and applicability of standard computational algorithm for finite strain. Composites Part B: Engineering, 2004, 35, 573-581.	12.0	47
112	Critical comparison of the boundary effect model with cohesive crack model and size effect law. Engineering Fracture Mechanics, 2019, 215, 193-210.	4.3	47
113	Title is missing!. International Journal of Fracture, 1997, 86, 267-288.	2.2	46
114	Multiscale simulation of fracture of braided composites via repetitive unit cells. Engineering Fracture Mechanics, 2011, 78, 901-918.	4.3	46
115	Probabilistic Nonlocal Theory for Quasibrittle Fracture Initiation and Size Effect.â€ƒII: Application. Journal of Engineering Mechanics - ASCE, 2000, 126, 175-185.	2.9	45
116	Can Multiscale-Multiphysics Methods Predict Softening Damage and Structural Failure?. International Journal for Multiscale Computational Engineering, 2010, 8, 61-67.	1.2	45
117	Short form of creep and shrinkage prediction model B3 for structures of medium sensitivity. Materiaux Et Constructions, 1996, 29, 587-593.	0.3	44
118	Microplane model M7f for fiber reinforced concrete. Engineering Fracture Mechanics, 2013, 105, 41-57.	4.3	43
119	Comparison of main models for size effect on shear strength of reinforced and prestressed concrete beams. Structural Concrete, 2016, 17, 778-789.	3.1	43
120	Fracturing Truss Model: Size Effect in Shear Failure of Reinforced Concrete. Journal of Engineering Mechanics - ASCE, 1997, 123, 1276-1288.	2.9	42
121	Stability and finite strain of homogenized structures soft in shear: Sandwich or fiber composites, and layered bodies. International Journal of Solids and Structures, 2006, 43, 1571-1593.	2.7	41
122	Theory of sorption hysteresis in nanoporous solids: Part I. Journal of the Mechanics and Physics of Solids, 2012, 60, 1644-1659.	4.8	41
123	Theory of sorption hysteresis in nanoporous solids: Part II Molecular condensation. Journal of the Mechanics and Physics of Solids, 2012, 60, 1660-1675.	4.8	41
124	Snapback instability at crack ligament tearing and its implication for fracture micromechanics. Cement and Concrete Research, 1987, 17, 951-967.	11.0	39
125	Statistics of strength of ceramics: finite weakest-link model and necessity of zero threshold. International Journal of Fracture, 2008, 154, 131-145.	2.2	38
126	Size Effect on Punching Strength of Reinforced Concrete Slabs without and with Shear Reinforcement. ACI Structural Journal, 2017, 114, .	0.2	38

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127	Microplane model for stiff foams and finite element analysis of sandwich failure by core indentation. International Journal of Solids and Structures, 2001, 38, 8111-8132.	2.7	37
128	On the Importance of Work-Conjugacy and Objective Stress Rates in Finite Deformation Incremental Finite Element Analysis. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	2.2	37
129	Vertex Effect in Strain-Softening Concrete at Rotating Principal Axes. Journal of Engineering Mechanics - ASCE, 2002, 128, 24-33.	2.9	36
130	Size effect and asymptotic matching analysis of fracture of closed-cell polymeric foam. International Journal of Solids and Structures, 2003, 40, 7197-7217.	2.7	36
131	Comminution of solids caused by kinetic energy of high shear strain rate, with implications for impact, shock, and shale fracturing. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19291-19294.	7.1	36
132	Impact comminution of solids due to local kinetic energy of high shear strain rate: I. Continuum theory and turbulence analogy. Journal of the Mechanics and Physics of Solids, 2014, 64, 223-235.	4.8	36
133	Microplane triad model for simple and accurate prediction of orthotropic elastic constants of woven fabric composites. Journal of Composite Materials, 2016, 50, 1247-1260.	2.4	36
134	Microplane constitutive model for porous isotropic rocks. International Journal for Numerical and Analytical Methods in Geomechanics, 2003, 27, 25-47.	3.3	34
135	Microplane Model M5f for Multiaxial Behavior and Fracture of Fiber-Reinforced Concrete. Journal of Engineering Mechanics - ASCE, 2007, 133, 66-75.	2.9	34
136	Consequences of diffusion theory for shrinkage of concrete. Materiaux Et Constructions, 1991, 24, 323-326.	0.3	33
137	Stability of ancient masonry towers: Moisture diffusion, carbonation and size effect. Cement and Concrete Research, 2006, 36, 1379-1388.	11.0	33
138	Errors Caused by Non-Work-Conjugate Stress and Strain Measures and Necessary Corrections in Finite Element Programs. Journal of Applied Mechanics, Transactions ASME, 2010, 77, .	2.2	33
139	Largeâ€scale thermal bending fracture of sea ice plates. Journal of Geophysical Research, 1992, 97, 17739-17751.	3.3	32
140	Cohesive Fracturing and Stresses Caused by Hydration Heat in Massive Concrete Wall. Journal of Engineering Mechanics - ASCE, 2003, 129, 21-30.	2.9	32
141	Geothermal heat extraction by water circulation through a large crack in dry hot rock mass. International Journal for Numerical and Analytical Methods in Geomechanics, 1978, 2, 317-327.	3.3	31
142	Effect of Composition on Basic Creep of Concrete and Cement Paste. Journal of Engineering Mechanics - ASCE, 1995, 121, 1261-1270.	2.9	31
143	Size effect on strength of laminate-foam sandwich plates: Finite element analysis with interface fracture. Composites Part B: Engineering, 2009, 40, 337-348.	12.0	31
144	Growth model for large branched three-dimensional hydraulic crack system in gas or oil shale. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150418.	3.4	31

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145	Fishnet model for failure probability tail of nacre-like imbricated lamellar materials. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12900-12905.	7.1	31
146	Work inequalities for plastic fracturing materials. International Journal of Solids and Structures, 1980, 16, 873-901.	2.7	30
147	Eigenvalue method for computing size effect of cohesive cracks with residual stress, with application to kink-bands in composites. International Journal of Engineering Science, 2003, 41, 1519-1534.	5.0	30
148	Strength distribution of dental restorative ceramics: Finite weakest link model with zero threshold. Dental Materials, 2009, 25, 641-648.	3.5	30
149	Direct Testing of Gradual Postpeak Softening of Fracture Specimens of Fiber Composites Stabilized by Enhanced Grip Stiffness and Mass. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	2.2	30
150	Diffusion-Controlled and Creep-Mitigated ASR Damage via Microplane Model. I: Mass Concrete. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	30
151	Extended Microprestress-Solidification Theory for Long-Term Creep with Diffusion Size Effect in Concrete at Variable Environment. Journal of Engineering Mechanics - ASCE, 2019, 145, .	2.9	30
152	Subcritical crack growth law and its consequences for lifetime statistics and size effect of quasibrittle structures. Journal Physics D: Applied Physics, 2009, 42, 214008.	2.8	29
153	Critique of critical shear crack theory for fib Model Code articles on shear strength and size effect of reinforced concrete beams. Structural Concrete, 2019, 20, 1451-1463.	3.1	29
154	Improved prediction model for time-dependent deformations of concrete: Part 6â€”Simplified code-type formulation. Materiaux Et Constructions, 1992, 25, 219-223.	0.3	28
155	Relaxation of Prestressing Steel at Varying Strain and Temperature: Viscoplastic Constitutive Relation. Journal of Engineering Mechanics - ASCE, 2013, 139, 814-823.	2.9	28
156	Characterization of concrete failure behavior: a comprehensive experimental database for the calibration and validation of concrete models. Materials and Structures/Materiaux Et Constructions, 2015, 48, 3603-3626.	3.1	28
157	Creep of Anisotropic Clay: Microplane Model. Journal of Geotechcnical Engineering, 1986, 112, 458-475.	0.4	27
158	Non-local boundary integral formulation for softening damage. International Journal for Numerical Methods in Engineering, 2003, 57, 103-116.	2.8	27
159	Work conjugacy error in commercial finite-element codes: its magnitude and how to compensate for it. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 3047-3058.	2.1	27
160	Impact comminution of solids due to local kinetic energy of high shear strain rate: IIâ€“Microplane model and verification. Journal of the Mechanics and Physics of Solids, 2014, 64, 236-248.	4.8	27
161	Microplane-Triad Model for Elastic and Fracturing Behavior of Woven Composites. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	2.2	27
162	Scaling of dislocation-based strain-gradient plasticity. Journal of the Mechanics and Physics of Solids, 2002, 50, 435-448.	4.8	26

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163	Fishnet statistics for probabilistic strength and scaling of nacreous imbricated lamellar materials. Journal of the Mechanics and Physics of Solids, 2017, 109, 264-287.	4.8	26
164	Diffusion-Controlled and Creep-Mitigated ASR Damage via Microplane Model. II: Material Degradation, Drying, and Verification. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	26
165	Design of quasibrittle materials and structures to optimize strength and scaling at probability tail: an apercu. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180617.	2.1	26
166	Critical Comparison of Phase-Field, Peridynamics, and Crack Band Model M7 in Light of Gap Test and Classical Fracture Tests. Journal of Applied Mechanics, Transactions ASME, 2022, 89, .	2.2	26
167	Improved prediction model for time-dependent deformations of concrete: Part 4â€"Temperature effects. Materiaux Et Constructions, 1992, 25, 84-94.	0.3	25
168	Eigenvalue analysis of size effect for cohesive crack model. International Journal of Fracture, 1994, 66, 213-226.	2.2	25
169	Improved Estimation of Long-Term Relaxation Function from Compliance Function of Aging Concrete. Journal of Engineering Mechanics - ASCE, 2013, 139, 146-152.	2.9	25
170	Prediction of autogenous shrinkage in concrete from material composition or strength calibrated by a large database, as update to model B4. Materials and Structures/Materiaux Et Constructions, 2019, 52, 1.	3.1	25
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