

Zdenek P Bazant

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

279
papers

17,555
citations

67
h-index

125
g-index

298
ext. papers

19,328
ext. citations

3.3
avg, IF

7.12
L-index

#	Paper	IF	Citations
279	Prdīs of gap test results requiring reappraisal of line crack and phase-field models of fracture mechanics. <i>Engineering Structures</i> , 2022 , 250, 113285	4.7	1
278	Grigory Isaakovich Barenblatt. 10 July 1927–22 June 2018. <i>Biographical Memoirs of Fellows of the Royal Society</i> , 2022 , 72, 33-53	0.1	
277	Elastic and fracture behavior of three-dimensional ply-to-ply angle interlock woven composites: Through-thickness, size effect, and multiaxial tests. <i>Composites Part C: Open Access</i> , 2021 , 4, 100098	1.6	0
276	Injection Parameters That Promote Branching of Hydraulic Cracks. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093321	4.9	0
275	Coefficient of Variation of Shear Strength of RC Beams and Size Effect. <i>Journal of Engineering Mechanics - ASCE</i> , 2021 , 147, 04020144	2.4	5
274	Conversion of explicit microplane model with boundaries to a constitutive subroutine for implicit finite element programs. <i>International Journal for Numerical Methods in Engineering</i> , 2021 , 122, 1563-1577	2.7	1
273	Structural strength scaling law for fracture of plastic-hardening metals and testing of fracture properties. <i>Extreme Mechanics Letters</i> , 2021 , 43, 101141	3.9	4
272	Discussion of the article From experimental evidence to mechanical modeling and design expressions: The critical shear crack theory for shear design. <i>Structural Concrete</i> , 2020 , 21, 1688-1689	2.6	1
271	New perspective of fracture mechanics inspired by gap test with crack-parallel compression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14015-14020	11.5	24
270	Failure Probability of Concrete Specimens of Uncertain Mean Strength in Large Database. <i>Journal of Engineering Mechanics - ASCE</i> , 2020 , 146, 04020039	2.4	2
269	Size effect on branched sideways cracks in orthotropic fiber composites. <i>International Journal of Fracture</i> , 2020 , 222, 155-169	2.3	2
268	Gap Test of Crack-Parallel Stress Effect on Quasibrittle Fracture and Its Consequences. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020 , 87,	2.7	20
267	Unsaturated nanoporomechanics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 3440-3445	11.5	7
266	Size Effect on Shear Strength of Reinforced Concrete: Is CSCT or MCFT a Viable Alternative to Energy-Based Design Code?. <i>Journal of Engineering Mechanics - ASCE</i> , 2020 , 146, 04020110	2.4	4
265	Discussion of the article On shear in members without stirrups and the application of energy-based methods in light of 30 years of test observations. <i>Structural Concrete</i> , 2020 , 21, 1693-1694	2.6	
264	Size Effect on FRP External Reinforcement and Retrofit of Concrete Structures. <i>Journal of Composites for Construction</i> , 2020 , 24, 04020056	3.3	5
263	Century-long expansion of hydrating cement counteracting concrete shrinkage due to humidity drop from self-desiccation or external drying. <i>Materials and Structures/Materiaux Et Constructions</i> , 2019 , 52, 1	3.4	13

262	A Precip of Fishnet Statistics for Tail Probability of Failure of Materials with Alternating Series and Parallel Links. <i>Physical Mesomechanics</i> , 2019 , 22, 32-41	1.6	2
261	Fishnet Statistical Size Effect on Strength of Materials With Nacreous Microstructure. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2019 , 86,	2.7	4
260	Critique of critical shear crack theory for fib Model Code articles on shear strength and size effect of reinforced concrete beams. <i>Structural Concrete</i> , 2019 , 20, 1451-1463	2.6	17
259	Critical comparison of the boundary effect model with cohesive crack model and size effect law. <i>Engineering Fracture Mechanics</i> , 2019 , 215, 193-210	4.2	21
258	Sorption isotherm restricted by multilayer hindered adsorption and its relation to nanopore size distribution. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 127, 111-124	5	9
257	Effect of high-rate dynamic comminution on penetration of projectiles of various velocities and impact angles into concrete. <i>International Journal of Fracture</i> , 2019 , 216, 211-221	2.3	8
256	Moisture Diffusion in Unsaturated Self-Desiccating Concrete with Humidity-Dependent Permeability and Nonlinear Sorption Isotherm. <i>Journal of Engineering Mechanics - ASCE</i> , 2019 , 145, 04019032	3.4	8
255	Prediction of autogenous shrinkage in concrete from material composition or strength calibrated by a large database, as update to model B4. <i>Materials and Structures/Materiaux Et Constructions</i> , 2019 , 52, 1	3.4	13
254	Design of quasibrittle materials and structures to optimize strength and scaling at probability tail: an apercu. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20180617	2.4	11
253	Anisotropic microplane constitutive model for coupling creep and damage in layered geomaterials such as gas or oil shale. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019 , 124, 104074	6	8
252	Mode I and II Interlaminar Fracture in Laminated Composites: A Size Effect Study. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2019 , 86,	2.7	16
251	Size Effect of Squat Shear Walls Extrapolated by Microplane Model M7. <i>ACI Structural Journal</i> , 2019 , 116,	1.7	10
250	Dependence of fracture size effect and projectile penetration on fiber content of FRC. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 596, 012001	0.4	4
249	Branching of hydraulic cracks enabling permeability of gas or oil shale with closed natural fractures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 1532-1537	11.5	21
248	Extended Microprestress-Solidification Theory for Long-Term Creep with Diffusion Size Effect in Concrete at Variable Environment. <i>Journal of Engineering Mechanics - ASCE</i> , 2019 , 145, 04018131	2.4	19
247	Recent advances in mechanics of fracking and new results on 2D simulation of crack branching in anisotropic gas or oil shale. <i>Acta Mechanica</i> , 2018 , 229, 975-992	2.1	8
246	Time lag in measuring pore humidity in concrete by a gage in finite cavity. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018 , 51, 1	3.4	4
245	A nanoscale perspective on the effects of transverse microprestress on drying creep of nanoporous solids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018 , 474, 20170570	2.4	3

244	Fishnet model with order statistics for tail probability of failure of nacreous biomimetic materials with softening interlaminar links. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 121, 281-295	5	6
243	Creep and Hygrothermal Effects in Concrete Structures. <i>Solid Mechanics and Its Applications</i> , 2018 ,	0.4	52
242	Statistical filtering of useful concrete creep data from imperfect laboratory tests. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018 , 51, 1	3.4	3
241	The Enigma of Large-Scale Permeability of Gas Shale: Pre-Existing or Frac-Induced?. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017 , 84,	2.7	11
240	Spherocylindrical microplane constitutive model for shale and other anisotropic rocks. <i>Journal of the Mechanics and Physics of Solids</i> , 2017 , 103, 155-178	5	37
239	Fishnet statistics for probabilistic strength and scaling of nacreous imbricated lamellar materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2017 , 109, 264-287	5	13
238	Fishnet model for failure probability tail of nacre-like imbricated lamellar materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 12900-12905	11.5	15
237	Diffusion-Controlled and Creep-Mitigated ASR Damage via Microplane Model. II: Material Degradation, Drying, and Verification. <i>Journal of Engineering Mechanics - ASCE</i> , 2017 , 143, 04016109	2.4	21
236	Diffusion-Controlled and Creep-Mitigated ASR Damage via Microplane Model. I: Mass Concrete. <i>Journal of Engineering Mechanics - ASCE</i> , 2017 , 143, 04016108	2.4	21
235	Cement hydration from hours to centuries controlled by diffusion through barrier shells of C-S-H. <i>Journal of the Mechanics and Physics of Solids</i> , 2017 , 99, 211-224	5	55
234	Size Effect on Punching Strength of Reinforced Concrete Slabs without and with Shear Reinforcement. <i>ACI Structural Journal</i> , 2017 , 114,	1.7	27
233	Probabilistic Mechanics of Quasibrittle Structures: Strength, Lifetime, and Size Effect 2017 ,		48
232	Extrapolation of short-time drying shrinkage tests based on measured diffusion size effect: concept and reality. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016 , 49, 411-420	3.4	9
231	Transient effects of drying creep in nanoporous solids: understanding the effects of nanoscale energy barriers. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016 , 472, 20160490	2.4	9
230	Shape factors for concrete shrinkage and drying creep in model B4 refined by nonlinear diffusion analysis. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016 , 49, 4779-4784	3.4	8
229	Microplane-Triad Model for Elastic and Fracturing Behavior of Woven Composites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016 , 83,	2.7	21
228	Microplane triad model for simple and accurate prediction of orthotropic elastic constants of woven fabric composites. <i>Journal of Composite Materials</i> , 2016 , 50, 1247-1260	2.7	30
227	Size effect in Paris law and fatigue lifetimes for quasibrittle materials: Modified theory, experiments and micro-modeling. <i>International Journal of Fatigue</i> , 2016 , 83, 209-220	5	41

226	Comparison of main models for size effect on shear strength of reinforced and prestressed concrete beams. <i>Structural Concrete</i> , 2016 , 17, 778-789	2.6	32
225	Direct Testing of Gradual Postpeak Softening of Fracture Specimens of Fiber Composites Stabilized by Enhanced Grip Stiffness and Mass. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016 , 83,	2.7	21
224	Wave Dispersion and Basic Concepts of Peridynamics Compared to Classical Nonlocal Damage Models. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016 , 83,	2.7	56
223	Growth model for large branched three-dimensional hydraulic crack system in gas or oil shale. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	24
222	Recent Advances in Global Fracture Mechanics of Growth of Large Hydraulic Crack Systems in Gas or Oil Shale: A Review 2016 , 435-460		2
221	Experimental and numerical investigation of intra-laminar energy dissipation and size effect in two-dimensional textile composites. <i>Composites Science and Technology</i> , 2016 , 135, 67-75	8.6	43
220	Optimization method, choice of form and uncertainty quantification of Model B4 using laboratory and multi-decade bridge databases. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015 , 48, 771-796	3.4	41
219	Impact Comminution of Solids Due to Progressive Crack Growth Driven by Kinetic Energy of High-Rate Shear. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015 , 82,	2.7	7
218	Viscous energy dissipation of kinetic energy of particles comminuted by high-rate shearing in projectile penetration, with potential ramification to gas shale. <i>International Journal of Fracture</i> , 2015 , 193, 77-85	2.3	6
217	Statistical justification of model B4 for multi-decade concrete creep using laboratory and bridge databases and comparisons to other models. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015 , 48, 815-833	3.4	46
216	Statistical justification of Model B4 for drying and autogenous shrinkage of concrete and comparisons to other models. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015 , 48, 797-814	3.4	60
215	Size effect in Paris law for quasibrittle materials analyzed by the microplane constitutive model M7. <i>Mechanics Research Communications</i> , 2015 , 68, 60-64	2.2	6
214	Creep of Lubricated Layered Nano-Porous Solids and Application To Cementitious Materials. <i>Journal of Nanomechanics & Micromechanics</i> , 2015 , 5, 04015002		10
213	Characterization of concrete failure behavior: a comprehensive experimental database for the calibration and validation of concrete models. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015 , 48, 3603-3626	3.4	23
212	Microplane damage model for fatigue of quasibrittle materials: Sub-critical crack growth, lifetime and residual strength. <i>International Journal of Fatigue</i> , 2015 , 70, 93-105	5	32
211	Strain-rate-dependent microplane model for high-rate comminution of concrete under impact based on kinetic energy release theory. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015 , 471, 20150535	2.4	6
210	Stochastic discrete meso-scale simulations of concrete fracture: Comparison to experimental data. <i>Engineering Fracture Mechanics</i> , 2015 , 135, 1-16	4.2	61
209	Comprehensive Database for Concrete Creep and Shrinkage: Analysis and Recommendations for Testing and Recording. <i>ACI Materials Journal</i> , 2015 , 112,	0.9	26

208	Damage in Prestressed Concrete Structures due to Creep and Shrinkage of Concrete 2015 , 515-564		1
207	Impact comminution of solids due to local kinetic energy of high shear strain rate: I. Continuum theory and turbulence analogy. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 64, 223-235	5	26
206	Impact comminution of solids due to local kinetic energy of high shear strain rate: II. Microplane model and verification. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 64, 236-248	5	19
205	Size Effect in Flexure of Prestressed Concrete Beams Failing by Compression Softening. <i>Journal of Structural Engineering</i> , 2014 , 140, 04014068	3	6
204	Microplane damage model for jointed rock masses. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2014 , 38, 1431-1452	4	14
203	Cohesive crack, size effect, crack band and work-of-fracture models compared to comprehensive concrete fracture tests. <i>International Journal of Fracture</i> , 2014 , 187, 133-143	2.3	69
202	Theory of cyclic creep of concrete based on Paris law for fatigue growth of subcritical microcracks. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 63, 187-200	5	52
201	Statistical distribution and size effect of residual strength of quasibrittle materials after a period of constant load. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 64, 440-454	5	9
200	The asymptotic stochastic strength of bundles of elements exhibiting general stress-strain laws. <i>Probabilistic Engineering Mechanics</i> , 2014 , 36, 1-7	2.6	12
199	Why Fracking Works. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014 , 81,	2.7	116
198	Energy-Conservation Error Due to Use of Green-Naghdi Objective Stress Rate in Commercial Finite-Element Codes and Its Compensation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014 , 81,	2.7	13
197	Universal Size-Shape Effect Law Based on Comprehensive Concrete Fracture Tests. <i>Journal of Engineering Mechanics - ASCE</i> , 2014 , 140, 473-479	2.4	69
196	Finite weakest-link model of lifetime distribution of quasibrittle structures under fatigue loading. <i>Mathematics and Mechanics of Solids</i> , 2014 , 19, 56-70	2.3	5
195	Comparison of the Hu-Duan Boundary Effect Model with the Size-Shape Effect Law for Quasi-Brittle Fracture Based on New Comprehensive Fracture Tests. <i>Journal of Engineering Mechanics - ASCE</i> , 2014 , 140, 480-486	2.4	38
194	Review of energy conservation errors in finite element softwares caused by using energy-inconsistent objective stress rates. <i>Advances in Engineering Software</i> , 2014 , 72, 3-7	3.6	9
193	Fracture and Size Effect on Strength of Plain Concrete Disks under Biaxial Flexure Analyzed by Microplane Model M7. <i>Journal of Engineering Mechanics - ASCE</i> , 2014 , 140, 604-613	2.4	9
192	Damage in Prestressed Concrete Structures Due to Creep and Shrinkage of Concrete 2014 , 1-43		
191	Comprehensive concrete fracture tests: Description and results. <i>Engineering Fracture Mechanics</i> , 2013 , 114, 92-103	4.2	86

190	Non-uniqueness of cohesive-crack stress-separation law of human and bovine bones and remedy by size effect tests. <i>International Journal of Fracture</i> , 2013 , 181, 67-81	2.3	18
189	Microplane Model M7 for Plain Concrete. I: Formulation. <i>Journal of Engineering Mechanics - ASCE</i> , 2013 , 139, 1714-1723	2.4	95
188	Comprehensive concrete fracture tests: Size effects of Types 1 & 2, crack length effect and postpeak. <i>Engineering Fracture Mechanics</i> , 2013 , 110, 281-289	4.2	71
187	Microplane model M7f for fiber reinforced concrete. <i>Engineering Fracture Mechanics</i> , 2013 , 105, 41-57	4.2	41
186	Comminution of solids caused by kinetic energy of high shear strain rate, with implications for impact, shock, and shale fracturing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 19291-4	11.5	25
185	On the Importance of Work-Conjugacy and Objective Stress Rates in Finite Deformation Incremental Finite Element Analysis. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	23
184	Elastic Soft-Core Sandwich Plates: Critical Loads and Energy Errors in Commercial Codes Due to Choice of Objective Stress Rate. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	6
183	Relaxation of Prestressing Steel at Varying Strain and Temperature: Viscoplastic Constitutive Relation. <i>Journal of Engineering Mechanics - ASCE</i> , 2013 , 139, 814-823	2.4	25
182	Microplane Model M7 for Plain Concrete. II: Calibration and Verification. <i>Journal of Engineering Mechanics - ASCE</i> , 2013 , 139, 1724-1735	2.4	61
181	Improved Estimation of Long-Term Relaxation Function from Compliance Function of Aging Concrete. <i>Journal of Engineering Mechanics - ASCE</i> , 2013 , 139, 146-152	2.4	18
180	Theory of sorption hysteresis in nanoporous solids: Part I. <i>Journal of the Mechanics and Physics of Solids</i> , 2012 , 60, 1644-1659	5	30
179	Theory of sorption hysteresis in nanoporous solids: Part II Molecular condensation. <i>Journal of the Mechanics and Physics of Solids</i> , 2012 , 60, 1660-1675	5	37
178	Size effect on strength and lifetime probability distributions of quasibrittle structures. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2012 , 37, 17-31	1	3
177	Scaling of Static Fracture of Quasi-Brittle Structures: Strength, Lifetime, and Fracture Kinetics. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012 , 79,	2.7	7
176	Excessive Long-Time Deflections of Prestressed Box Girders. I: Record-Span Bridge in Palau and Other Paradigms. <i>Journal of Structural Engineering</i> , 2012 , 138, 676-686	3	139
175	Work conjugacy error in commercial finite-element codes: its magnitude and how to compensate for it. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 3047-3058 ²²	2.4	22
174	Computation of Probability Distribution of Strength of Quasibrittle Structures Failing at Macrocrack Initiation. <i>Journal of Engineering Mechanics - ASCE</i> , 2012 , 138, 888-899	2.4	10
173	Closure to Why the Observed Motion History of World Trade Center Towers Is Smooth by Jia-Liang Le and Zdeněk P. Bažant. <i>Journal of Engineering Mechanics - ASCE</i> , 2012 , 138, 1300-1301	2.4	1

172	Scaling of Strength and Lifetime Distributions of Quasibrittle Structures 2011 , 43-59		
171	Multiscale simulation of fracture of braided composites via repetitive unit cells. <i>Engineering Fracture Mechanics</i> , 2011 , 78, 901-918	4.2	40
170	Unified nano-mechanics based probabilistic theory of quasibrittle and brittle structures: I. Strength, static crack growth, lifetime and scaling. <i>Journal of the Mechanics and Physics of Solids</i> , 2011 , 59, 1291-1321	5.2	110
169	Unified nano-mechanics based probabilistic theory of quasibrittle and brittle structures: II. Fatigue crack growth, lifetime and scaling. <i>Journal of the Mechanics and Physics of Solids</i> , 2011 , 59, 1322-1337	5	54
168	Can Stirrups Suppress Size Effect on Shear Strength of RC Beams?. <i>Journal of Structural Engineering</i> , 2011 , 137, 607-617	3	54
167	Size-Effect Testing of Cohesive Fracture Parameters and Nonuniqueness of Work-of-Fracture Method. <i>Journal of Engineering Mechanics - ASCE</i> , 2011 , 137, 580-588	2.4	46
166	Microplane Model for Fracturing Damage of Triaxially Braided Fiber-Polymer Composites. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2011 , 133,	1.8	18
165	Problems with Hu-Duan Boundary Effect Model and Its Comparison to Size-Shape Effect Law for Quasi-Brittle Fracture. <i>Journal of Engineering Mechanics - ASCE</i> , 2010 , 136, 40-50	2.4	41
164	Closure to What Did and Did Not Cause Collapse of World Trade Center Twin Towers in New York? By ZdenĚ P. BaĚnt, Jia-Liang Le, Frank R. Greening, and David B. Benson. <i>Journal of Engineering Mechanics - ASCE</i> , 2010 , 136, 934-935	2.4	3
163	Scaling of Strength of Metal-Composite Joints Part I: Experimental Investigation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2010 , 77,	2.7	9
162	Errors Caused by Non-Work-Conjugate Stress and Strain Measures and Necessary Corrections in Finite Element Programs. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2010 , 77,	2.7	26
161	Scaling of Strength of Metal-Composite Joints Part II: Interface Fracture Analysis. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2010 , 77,	2.7	11
160	Stability of Structures 2010 ,		171
159	Can Multiscale-Multiphysics Methods Predict Softening Damage and Structural Failure?. <i>International Journal for Multiscale Computational Engineering</i> , 2010 , 8, 61-67	2.4	36
158	Subcritical crack growth law and its consequences for lifetime statistics and size effect of quasibrittle structures. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 214008	3	21
157	Lifetime of high-k gate dielectrics and analogy with strength of quasibrittle structures. <i>Journal of Applied Physics</i> , 2009 , 106, 104119	2.5	12
156	Random Lattice-Particle Simulation of Statistical Size Effect in Quasi-Brittle Structures Failing at Crack Initiation. <i>Journal of Engineering Mechanics - ASCE</i> , 2009 , 135, 85-92	2.4	57
155	Strength distribution of dental restorative ceramics: finite weakest link model with zero threshold. <i>Dental Materials</i> , 2009 , 25, 641-8	5.7	26

154	Nano-mechanics based modeling of lifetime distribution of quasibrittle structures. <i>Engineering Failure Analysis</i> , 2009 , 16, 2521-2529	3.2	19
153	Size effect on strength of laminate-foam sandwich plates: Finite element analysis with interface fracture. <i>Composites Part B: Engineering</i> , 2009 , 40, 337-348	10	28
152	Universal Size Effect Law and Effect of Crack Depth on Quasi-Brittle Structure Strength. <i>Journal of Engineering Mechanics - ASCE</i> , 2009 , 135, 78-84	2.4	87
151	Scaling of strength and lifetime probability distributions of quasibrittle structures based on atomistic fracture mechanics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 11484-9	11.5	74
150	Size Effect on Fracture of Composite and Sandwich Structures 2009 , 305-338		1
149	Recent Progress in Energetic Probabilistic Scaling Laws for Quasi-Brittle Fracture. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2009 , 135-144	0.3	
148	Spectral Stiffness Microplane Model for Quasibrittle Composite Laminates Part II: Calibration and Validation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2008 , 75,	2.7	14
147	Statistics of strength of ceramics: finite weakest-link model and necessity of zero threshold. <i>International Journal of Fracture</i> , 2008 , 154, 131-145	2.3	27
146	Initial postcritical behavior of sandwich columns with low shear and transverse stiffness. <i>Composites Part B: Engineering</i> , 2008 , 39, 159-164	10	5
145	Energetic-statistical size effect simulated by SFEM with stratified sampling and crack band model. <i>International Journal for Numerical Methods in Engineering</i> , 2007 , 71, 1297-1320	2.4	44
144	Response to A. Carpinteri, B. Chiaia, P. Cornetti and S. Puzzi Comments on the cause of size effect on structural strength fractal or energetic-statistical? <i>Engineering Fracture Mechanics</i> , 2007 , 74, 2897-2910	4.2	13
143	Activation energy based extreme value statistics and size effect in brittle and quasibrittle fracture. <i>Journal of the Mechanics and Physics of Solids</i> , 2007 , 55, 91-131	5	168
142	Size effect on buckling strength of eccentrically compressed column with fixed or propagating transverse crack. <i>International Journal of Fracture</i> , 2007 , 142, 151-162	2.3	3
141	Microplane Model M5f for Multiaxial Behavior and Fracture of Fiber-Reinforced Concrete. <i>Journal of Engineering Mechanics - ASCE</i> , 2007 , 133, 66-75	2.4	28
140	Asymptotic Prediction of Energetic-Statistical Size Effect from Deterministic Finite-Element Solutions. <i>Journal of Engineering Mechanics - ASCE</i> , 2007 , 133, 153-162	2.4	61
139	Mechanics of Progressive Collapse: Learning from World Trade Center and Building Demolitions. <i>Journal of Engineering Mechanics - ASCE</i> , 2007 , 133, 308-319	2.4	101
138	Size Effect on Compressive Strength of Sandwich Panels with Fracture of Woven Laminate Facesheet. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2006 , 128, 169-174	1.8	13
137	Mechanics-based statistics of failure risk of quasibrittle structures and size effect on safety factors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 9434-9	11.5	77

136	Size Effect on Strength of Quasibrittle Structures with Reentrant Corners Symmetrically Loaded in Tension. <i>Journal of Engineering Mechanics - ASCE</i> , 2006 , 132, 1168-1176	2.4	15
135	Reliability, Brittleness, Covert Understrength Factors, and Fringe Formulas in Concrete Design Codes. <i>Journal of Structural Engineering</i> , 2006 , 132, 3-12	3	9
134	Stability and finite strain of homogenized structures soft in shear: Sandwich or fiber composites, and layered bodies. <i>International Journal of Solids and Structures</i> , 2006 , 43, 1571-1593	3.1	36
133	Postcritical imperfection sensitivity of sandwich or homogenized orthotropic columns soft in shear and in transverse deformation. <i>International Journal of Solids and Structures</i> , 2006 , 43, 5501-5524	3.1	16
132	Stability of ancient masonry towers: Moisture diffusion, carbonation and size effect. <i>Cement and Concrete Research</i> , 2006 , 36, 1379-1388	10.3	25
131	Designing Against Size Effect on Shear Strength of Reinforced Concrete Beams Without Stirrups: I. Formulation. <i>Journal of Structural Engineering</i> , 2005 , 131, 1877-1885	3	76
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