

Milan Jirasek

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77
papers

4,124
citations

31
h-index

64
g-index

97
ext. papers

4,551
ext. citations

2.6
avg. IF

5.94
L-index

#	Paper	IF	Citations
77	Nonlocal Integral Formulations of Plasticity and Damage: Survey of Progress. <i>Journal of Engineering Mechanics - ASCE</i> , 2002 , 128, 1119-1149	2.4	843
76	Comparative study on finite elements with embedded discontinuities. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 188, 307-330	5.7	310
75	Damage-plastic model for concrete failure. <i>International Journal of Solids and Structures</i> , 2006 , 43, 7166-7196	3.1	307
74	Nonlocal models for damage and fracture: Comparison of approaches. <i>International Journal of Solids and Structures</i> , 1998 , 35, 4133-4145	3.1	270
73	Meso-scale approach to modelling the fracture process zone of concrete subjected to uniaxial tension. <i>International Journal of Solids and Structures</i> , 2010 , 47, 957-968	3.1	164
72	Comparison of integral-type nonlocal plasticity models for strain-softening materials. <i>International Journal of Engineering Science</i> , 2003 , 41, 1553-1602	5.7	145
71	Consistent tangent stiffness for nonlocal damage models. <i>Computers and Structures</i> , 2002 , 80, 1279-1293	3.5	110
70	Embedded crack model: I. Basic formulation. <i>International Journal for Numerical Methods in Engineering</i> , 2001 , 50, 1269-1290	2.4	109
69	Embedded crack model. Part II: combination with smeared cracks. <i>International Journal for Numerical Methods in Engineering</i> , 2001 , 50, 1291-1305	2.4	106
68	Rotating Crack Model with Transition to Scalar Damage. <i>Journal of Engineering Mechanics - ASCE</i> , 1998 , 124, 277-284	2.4	99
67	Analysis of Rotating Crack Model. <i>Journal of Engineering Mechanics - ASCE</i> , 1998 , 124, 842-851	2.4	95
66	Plastic model with non-local damage applied to concrete. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2006 , 30, 71-90	4	90
65	Numerical aspects of the crack band approach. <i>Computers and Structures</i> , 2012 , 110-111, 60-78	4.5	86
64	A thermodynamically consistent approach to microplane theory. Part I. Free energy and consistent microplane stresses. <i>International Journal of Solids and Structures</i> , 2001 , 38, 2921-2931	3.1	83
63	Evaluation of directional mesh bias in concrete fracture simulations using continuum damage models. <i>Engineering Fracture Mechanics</i> , 2008 , 75, 1921-1943	4.2	81
62	Critical aspects of nano-indentation technique in application to hardened cement paste. <i>Cement and Concrete Research</i> , 2011 , 41, 20-29	10.3	78
61	Process zone resolution by extended finite elements. <i>Engineering Fracture Mechanics</i> , 2003 , 70, 957-977	4.2	68

60	Macroscopic fracture characteristics of random particle systems. <i>International Journal of Fracture</i> , 1994 , 69, 201-228	2.3	66
59	Large-Strain Generalization of Microplane Model for Concrete and Application. <i>Journal of Engineering Mechanics - ASCE</i> , 2000 , 126, 971-980	2.4	65
58	Particle Model for Quasibrittle Fracture and Application to Sea Ice. <i>Journal of Engineering Mechanics - ASCE</i> , 1995 , 121, 1016-1025	2.4	64
57	Localization properties of strain-softening gradient plasticity models. Part I: Strain-gradient theories. <i>International Journal of Solids and Structures</i> , 2009 , 46, 2225-2238	3.1	59
56	Non-local damage model based on displacement averaging. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 63, 77-102	2.4	57
55	Creep and Hygrothermal Effects in Concrete Structures. <i>Solid Mechanics and Its Applications</i> , 2018 ,	0.4	52
54	Multiscale modeling of drying shrinkage and creep of concrete. <i>Cement and Concrete Research</i> , 2016 , 85, 55-74	10.3	49
53	Adaptive Resolution of Localized Damage in Quasi-brittle Materials. <i>Journal of Engineering Mechanics - ASCE</i> , 2004 , 130, 720-732	2.4	45
52	Non-local damage mechanics with application to concrete. <i>Revue Européenne De Génie Civil</i> , 2004 , 8, 683-707		44
51	A framework for microplane models at large strain, with application to hyperelasticity. <i>International Journal of Solids and Structures</i> , 2004 , 41, 511-557	3.1	41
50	Microprestress-solidification theory of concrete creep: Reformulation and improvement. <i>Cement and Concrete Research</i> , 2014 , 60, 51-62	10.3	39
49	R-curve modeling of rate and size effects in quasibrittle fracture. <i>International Journal of Fracture</i> , 1993 , 62, 355-373	2.3	39
48	A nonlocal constitutive model for trabecular bone softening in compression. <i>Biomechanics and Modeling in Mechanobiology</i> , 2010 , 9, 597-611	3.8	36
47	Localization properties of strain-softening gradient plasticity models. Part II: Theories with gradients of internal variables. <i>International Journal of Solids and Structures</i> , 2009 , 46, 2239-2254	3.1	35
46	Nonlocal damage mechanics. <i>Revue Européenne De Génie Civil</i> , 2007 , 11, 993-1021		30
45	Evaluation of nonlocal approaches for modelling fracture near nonconvex boundaries. <i>International Journal of Solids and Structures</i> , 2014 , 51, 3239-3251	3.1	27
44	Analytical and Numerical Solutions for Frames with Softening Hinges. <i>Journal of Engineering Mechanics - ASCE</i> , 1997 , 123, 8-14	2.4	27
43	Accurate approximations of concrete creep compliance functions based on continuous retardation spectra. <i>Computers and Structures</i> , 2014 , 135, 155-168	4.5	26

42	Objective modeling of strain localization. <i>Revue Européenne De Génie Civil</i> , 2002 , 6, 1119-1132		26
41	Mathematical analysis of strain localization. <i>Revue Européenne De Génie Civil</i> , 2007 , 11, 977-991		21
40	Analysis of size effect on strength of quasi-brittle materials using integral-type nonlocal models. <i>Engineering Fracture Mechanics</i> , 2016 , 157, 72-85	4.2	19
39	Localization Analysis of Nonlocal Model Based on Crack Interactions. <i>Journal of Engineering Mechanics - ASCE</i> , 1994 , 120, 1521-1542	2.4	19
38	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
37	An over-nonlocal implicit gradient-enhanced damage-plastic model for trabecular bone under large compressive strains. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2015 , 31,	2.6	16
36	Softening-Induced Dynamic Localization Instability: Seismic Damage in Frames. <i>Journal of Engineering Mechanics - ASCE</i> , 1996 , 122, 1149-1158	2.4	16
35	Localization study of a regularized variational damage model. <i>International Journal of Solids and Structures</i> , 2015 , 69-70, 131-151	3.1	11
34	Damage and Smearred Crack Models. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2011 , 1-49	0.6	11
33	Calculation of nonlinearly deformed membrane shape of liquid lens caused by uniform pressure. <i>Applied Optics</i> , 2017 , 56, 5939-5947	1.7	9
32	Nonlocal models with damage-dependent interactions motivated by internal time. <i>Engineering Fracture Mechanics</i> , 2015 , 142, 255-275	4.2	8
31	Localization analysis of an energy-based fourth-order gradient plasticity model. <i>European Journal of Mechanics, A/Solids</i> , 2016 , 55, 256-277	3.7	8
30	Localization analysis of variationally based gradient plasticity model. <i>International Journal of Solids and Structures</i> , 2013 , 50, 256-269	3.1	8
29	Quasicontinuum method extended to irregular lattices. <i>Computers and Structures</i> , 2017 , 192, 50-70	4.5	8
28	Deformation of a prestressed liquid lens membrane. <i>Applied Optics</i> , 2017 , 56, 9368-9376	1.7	8
27	Reinterpretation of Karihaloo's size effect analysis for notched quasibrittle structures. <i>International Journal of Fracture</i> , 2001 , 111, 17-28	2.3	8
26	Numerical modeling of strong discontinuities. <i>Revue Européenne De Génie Civil</i> , 2002 , 6, 1133-1146		7
25	Non-local damage mechanics with application to concrete		7

24	Softening Gradient Plasticity: Analytical Study of Localization under Nonuniform Stress. <i>International Journal for Multiscale Computational Engineering</i> , 2010 , 8, 37-60	2.4	6
23	Nonlocal damage mechanics. <i>Revue Européenne De Génie Civil</i> , 2007 , 11, 993-1021		6
22	Localization analysis of nonlocal models with damage-dependent nonlocal interaction. <i>International Journal of Solids and Structures</i> , 2019 , 174-175, 1-17	3.1	5
21	Mathematical analysis of strain localization. <i>Revue Européenne De Génie Civil</i> , 2007 , 11, 977-991		5
20	Pressurized axisymmetric membrane deforming into a prescribed shape. <i>International Journal of Solids and Structures</i> , 2020 , 198, 1-16	3.1	4
19	Basic Properties of Concrete Creep, Shrinkage, and Drying. <i>Solid Mechanics and Its Applications</i> , 2018 , 29-62	0.4	3
18	On design of element evaluators in OOFEM. <i>Advances in Engineering Software</i> , 2014 , 72, 193-202	3.6	3
17	Report on ONR Workshop on Fracture Scaling. <i>International Journal of Fracture</i> , 2002 , 113, 345-366	2.3	3
16	Quasicontinuum Simulation of Nanotextile Based on the Microplane Model. <i>Key Engineering Materials</i> , 2016 , 714, 143-147	0.4	2
15	Free Warping Analysis and Numerical Implementation. <i>Applied Mechanics and Materials</i> , 2016 , 825, 141-148	0.3	2
14	Efficient finite difference formulation of a geometrically nonlinear beam element. <i>International Journal for Numerical Methods in Engineering</i> ,	2.4	2
13	Quasicontinuum Method Combined with Anisotropic Microplane Model. <i>Advanced Materials Research</i> , 2017 , 1144, 142-147	0.5	1
12	Initiation of fluid-induced fracture in a thick-walled hollow permeable sphere. <i>European Journal of Mechanics, A/Solids</i> , 2019 , 76, 123-134	3.7	1
11	Localization properties of Desmorat's anisotropic damage model. <i>Computers and Structures</i> , 2016 , 174, 139-153	4.5	1
10	Basic concepts and equations of solid mechanics. <i>Revue Européenne De Génie Civil</i> , 2007 , 11, 879-892		1
9	New stress recovery formula for B-bar methods. <i>Communications in Numerical Methods in Engineering</i> , 1995 , 11, 347-353		1
8	Nonlocal plastic models for cohesive-frictional materials 2004 , 323-337		1
7	Regularized formulations of strain-softening plasticity. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2003 , 269-299	0.3	1

- 6 Computer-Aided Plastic Limit Analysis of Plates. *Applied Mechanics and Materials*, **2016**, 821, 547-554 0.3 0
- 5 Analysis of self-similar rate-dependent interfacial crack propagation in mode II. *International Journal of Fracture*, **2019**, 220, 45-83 2.3 0
- 4 Effect of creep on corrosion-induced cracking. *Engineering Fracture Mechanics*, **2022**, 264, 108310 4.2 0
- 3 Quasicontinuum method combined with microplane model. *International Journal of Solids and Structures*, **2021**, 238, 111369 3.1
- 2 Localization properties of damage models **2010**, 327-336
- 1 Mesoscale Modeling of Nonlinear Influence of Ambient Relative Humidity on Drying Shrinkage of Concrete. *Applied Mechanics and Materials*, **2016**, 825, 129-134 0.3