Xiaomin Deng

List of Publications by Year
in descending order

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		394421	414414
50	1,115	19	32
papers	citations	h-index	g-index

50	50	50	843
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Parameter Estimation and Application of Anisotropic Yield Criteria for Cylindrical Aluminum Extrusions: Theoretical Developments and StereoDIC Measurements. Applied Sciences (Switzerland), 2021, 11, 9701.	2.5	1
2	Experimental and numerical studies of two arterial wall delamination modes. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 77, 321-330.	3.1	16
3	Determination of Viscoelastic Properties of human Carotid Atherosclerotic Plaque by Inverse Boundary Value Analysis. IOP Conference Series: Materials Science and Engineering, 2018, 381, 012171.	0.6	2
4	Modeling of heat transfer in compacted machining chips during friction consolidation process. AIP Conference Proceedings, 2018, , .	0.4	1
5	Numerical modeling of experimental human fibrous cap delamination. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 59, 322-336.	3.1	8
6	Modeling of Experimental Atherosclerotic Plaque Delamination. Annals of Biomedical Engineering, 2015, 43, 2838-2851.	2.5	12
7	Small Scale Models Subjected to Buried Blast Loading Part I: Floorboard Accelerations and Related Passenger Injury Metrics with Protective Hulls. Experimental Mechanics, 2014, 54, 539-555.	2.0	9
8	Simulation of stable tearing crack growth events using the CZM approach with an explicit solver. Finite Elements in Analysis and Design, 2014, 81, 32-37.	3.2	2
9	Fiber nonlinear predictive model for combined bending-compression loading of an orthogonal plane weave composite laminate structure. Journal of Composite Materials, 2014, 48, 3637-3657.	2.4	1
10	Simulation of mixed-mode I/III stable tearing crack growth events using the cohesive zone model approach. International Journal of Fracture, 2014, 189, 59-75.	2.2	4
11	An inverse analysis of cohesive zone model parameter values for ductile crack growth simulations. International Journal of Mechanical Sciences, 2014, 79, 206-215.	6.7	41
12	Simulation of stable tearing crack growth events using the cohesive zone model approach. Engineering Fracture Mechanics, 2013, 99, 223-238.	4.3	22
13	Scaling of the deformation histories for clamped circular plates subjected to blast loading by buried charges. International Journal of Impact Engineering, 2013, 54, 31-50.	5.0	27
14	Deformation Scaling of Circular Plates Subjected to Dynamic Loading. Procedia IUTAM, 2012, 4, 196-205.	1.2	4
15	Modeling of mixed-mode crack growth in ductile thin sheets under combined in-plane and out-of-plane loading. Engineering Fracture Mechanics, 2011, 78, 3082-3101.	4.3	19
16	Mixed mode stable tearing of thin sheetÂAl 6061-T6 specimens: experimental measurements and finite element simulations using a modified Mohr-Coulomb fracture criterion. International Journal of Fracture, 2011, 168, 53-71.	2.2	25
17	Modeling of Stable Tearing with Crack Tunneling in Specimens of Different Thickness. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 553-560.	0.5	0
18	Simulation of Stable Tearing Crack Growth Using the Cohesive Zone Model Approach. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 537-543.	0.5	0

#	Article	IF	Citations
19	An inverse approach for pressure load identification. International Journal of Impact Engineering, 2010, 37, 865-877.	5.0	28
20	Investigation of crack tunneling in ductile materials. Engineering Fracture Mechanics, 2010, 77, 2800-2812.	4.3	22
21	Application of 3D image correlation for full-field transient plate deformation measurements during blast loading. International Journal of Impact Engineering, 2009, 36, 862-874.	5.0	144
22	Asymptotic Stress Field in a Degenerate Orthotropic Material Containing a Cohesive Zone ahead of a Crack Tip. Journal of Elasticity, 2008, 90, 271-282.	1.9	4
23	Three-Dimensional Crack Growth in Ductile Materials: Effect of Stress Constraint on Crack Tunneling. Journal of Pressure Vessel Technology, Transactions of the ASME, 2008, 130, .	0.6	13
24	Three-dimensional finite element simulations of mixed-mode stable tearing crack growth experiments. Engineering Fracture Mechanics, 2007, 74, 2498-2517.	4.3	24
25	Mixed-mode I/II fields around a crack with a cohesive zone ahead of the crack tip. Mechanics Research Communications, 2007, 34, 172-180.	1.8	7
26	Study of slant fracture in ductile materials. International Journal of Fracture, 2006, 141, 469-496.	2.2	29
27	Formulation of a cohesive zone model for a Mode III crack. Engineering Fracture Mechanics, 2005, 72, 1818-1829.	4.3	8
28	Advances in tetrahedral mesh generation for modelling of three-dimensional regions with complex, curvilinear crack shapes. International Journal for Numerical Methods in Engineering, 2005, 63, 256-275.	2.8	13
29	Experiments, Analysis and Simulation of Mixed Mode Ductile Fracture. , 2005, , 179.		0
30	Crack Tunneling: Effect of Stress Constraint. , 2004, , 393.		8
31	Computational Aspects of Three-Dimensional Crack Growth Simulations. , 2004, , 385.		3
32	Three-dimensional stress and deformation fields around flat and slant cracks under remote Mode I loading conditions. Engineering Fracture Mechanics, 2003, 70, 2527-2542.	4.3	36
33	Finite element simulation of high-pressure water-jet assisted metal cutting. International Journal of Mechanical Sciences, 2003, 45, 1201-1228.	6.7	36
34	A finite element study of the effect of friction in orthogonal metal cutting. Finite Elements in Analysis and Design, 2002, 38, 863-883.	3.2	100
35	Development and application of a crack tip opening displacement-based mixed mode fracture criterion. International Journal of Solids and Structures, 2000, 37, 3591-3618.	2.7	127
36	Finite element analysis of the orthogonal metal cutting process. Journal of Materials Processing Technology, 2000, 105, 95-109.	6.3	127

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37	A study of some issues in stable tearing crack growth simulations. Engineering Fracture Mechanics, 1999, 64, 291-304.	4.3	23
38	Plane Stress Crack Tip Field Around a Rapidly Growing Ductile/Rigid Interface Crack. International Journal of Fracture, 1998, 90, 325-340.	2.2	1
39	Experimental investigation of near crack tip creep deformation in alloy 800 at 650^C. International Journal of Fracture, 1998, 91, 233-268.	2.2	15
40	Determination of temperature field around a rapidly moving crack-tip in an elastic-plastic solid. International Journal of Heat and Mass Transfer, 1996, 39, 677-690.	4.8	11
41	Finite element analysis of creep fracture initiation in a model superalloy material. International Journal of Fracture, 1996, 81, 299-320.	2.2	7
42	Mechanics of debonding and delamination in composites: Asymptotic studies. Composites Part B: Engineering, 1995, 5, 1299-1315.	0.6	28
43	Plane strain near-tip fields for elastic-plastic interface cracks. International Journal of Solids and Structures, 1995, 32, 1727-1741.	2.7	5
44	Propagating interface cracks with frictionless contact. Journal of the Mechanics and Physics of Solids, 1993, 41, 531-540.	4.8	6
45	A new look at energy release rates for quasistatically propagating cracks in inelastic materials. International Journal of Fracture, 1993, 59, 151-160.	2.2	0
46	A finite element investigation of quasi-static and dynamic asymptotic crack-tip fields in hardening elastic-plastic solids under plane stress. International Journal of Fracture, 1992, 57, 291-308.	2.2	11
47	A finite element investigation of quasi-static and dynamic asymptotic crack-tip fields in hardening elastic-plastic solids under plane stress. International Journal of Fracture, 1992, 58, 137-156.	2.2	10
48	Complete complex series expansions of near-tip fields for steadily growing interface cracks in dissimilar isotropic materials. Engineering Fracture Mechanics, 1992, 42, 237-242.	4.3	41
49	Dynamic crack propagation in elastic-perfectly plastic solids under plane stress conditions. Journal of the Mechanics and Physics of Solids, 1991, 39, 683-722.	4.8	23
50	Negative plastic flow and its prevention in elasto-plastic finite element computation. Finite Elements in Analysis and Design, 1990, 7, 181-191.	3.2	11