

Xiaomin Deng

List of Publications by Year in descending order

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50
papers

1,115
citations

394421

19
h-index

414414

32
g-index

50
all docs

50
docs citations

50
times ranked

843
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of 3D image correlation for full-field transient plate deformation measurements during blast loading. <i>International Journal of Impact Engineering</i> , 2009, 36, 862-874.	5.0	144
2	Development and application of a crack tip opening displacement-based mixed mode fracture criterion. <i>International Journal of Solids and Structures</i> , 2000, 37, 3591-3618.	2.7	127
3	Finite element analysis of the orthogonal metal cutting process. <i>Journal of Materials Processing Technology</i> , 2000, 105, 95-109.	6.3	127
4	A finite element study of the effect of friction in orthogonal metal cutting. <i>Finite Elements in Analysis and Design</i> , 2002, 38, 863-883.	3.2	100
5	Complete complex series expansions of near-tip fields for steadily growing interface cracks in dissimilar isotropic materials. <i>Engineering Fracture Mechanics</i> , 1992, 42, 237-242.	4.3	41
6	An inverse analysis of cohesive zone model parameter values for ductile crack growth simulations. <i>International Journal of Mechanical Sciences</i> , 2014, 79, 206-215.	6.7	41
7	Three-dimensional stress and deformation fields around flat and slant cracks under remote Mode I loading conditions. <i>Engineering Fracture Mechanics</i> , 2003, 70, 2527-2542.	4.3	36
8	Finite element simulation of high-pressure water-jet assisted metal cutting. <i>International Journal of Mechanical Sciences</i> , 2003, 45, 1201-1228.	6.7	36
9	Study of slant fracture in ductile materials. <i>International Journal of Fracture</i> , 2006, 141, 469-496.	2.2	29
10	Mechanics of debonding and delamination in composites: Asymptotic studies. <i>Composites Part B: Engineering</i> , 1995, 5, 1299-1315.	0.6	28
11	An inverse approach for pressure load identification. <i>International Journal of Impact Engineering</i> , 2010, 37, 865-877.	5.0	28
12	Scaling of the deformation histories for clamped circular plates subjected to blast loading by buried charges. <i>International Journal of Impact Engineering</i> , 2013, 54, 31-50.	5.0	27
13	Mixed mode stable tearing of thin sheet Al 6061-T6 specimens: experimental measurements and finite element simulations using a modified Mohr-Coulomb fracture criterion. <i>International Journal of Fracture</i> , 2011, 168, 53-71.	2.2	25
14	Three-dimensional finite element simulations of mixed-mode stable tearing crack growth experiments. <i>Engineering Fracture Mechanics</i> , 2007, 74, 2498-2517.	4.3	24
15	Dynamic crack propagation in elastic-perfectly plastic solids under plane stress conditions. <i>Journal of the Mechanics and Physics of Solids</i> , 1991, 39, 683-722.	4.8	23
16	A study of some issues in stable tearing crack growth simulations. <i>Engineering Fracture Mechanics</i> , 1999, 64, 291-304.	4.3	23
17	Investigation of crack tunneling in ductile materials. <i>Engineering Fracture Mechanics</i> , 2010, 77, 2800-2812.	4.3	22
18	Simulation of stable tearing crack growth events using the cohesive zone model approach. <i>Engineering Fracture Mechanics</i> , 2013, 99, 223-238.	4.3	22

#	ARTICLE	IF	CITATIONS
19	Modeling of mixed-mode crack growth in ductile thin sheets under combined in-plane and out-of-plane loading. <i>Engineering Fracture Mechanics</i> , 2011, 78, 3082-3101.	4.3	19
20	Experimental and numerical studies of two arterial wall delamination modes. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 77, 321-330.	3.1	16
21	Experimental investigation of near crack tip creep deformation in alloy 800 at 650°C. <i>International Journal of Fracture</i> , 1998, 91, 233-268.	2.2	15
22	Advances in tetrahedral mesh generation for modelling of three-dimensional regions with complex, curvilinear crack shapes. <i>International Journal for Numerical Methods in Engineering</i> , 2005, 63, 256-275.	2.8	13
23	Three-Dimensional Crack Growth in Ductile Materials: Effect of Stress Constraint on Crack Tunneling. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2008, 130, .	0.6	13
24	Modeling of Experimental Atherosclerotic Plaque Delamination. <i>Annals of Biomedical Engineering</i> , 2015, 43, 2838-2851.	2.5	12
25	Negative plastic flow and its prevention in elasto-plastic finite element computation. <i>Finite Elements in Analysis and Design</i> , 1990, 7, 181-191.	3.2	11
26	A finite element investigation of quasi-static and dynamic asymptotic crack-tip fields in hardening elastic-plastic solids under plane stress. <i>International Journal of Fracture</i> , 1992, 57, 291-308.	2.2	11
27	Determination of temperature field around a rapidly moving crack-tip in an elastic-plastic solid. <i>International Journal of Heat and Mass Transfer</i> , 1996, 39, 677-690.	4.8	11
28	A finite element investigation of quasi-static and dynamic asymptotic crack-tip fields in hardening elastic-plastic solids under plane stress. <i>International Journal of Fracture</i> , 1992, 58, 137-156.	2.2	10
29	Small Scale Models Subjected to Buried Blast Loading Part I: Floorboard Accelerations and Related Passenger Injury Metrics with Protective Hulls. <i>Experimental Mechanics</i> , 2014, 54, 539-555.	2.0	9
30	Crack Tunneling: Effect of Stress Constraint. , 2004, , 393.		8
31	Formulation of a cohesive zone model for a Mode III crack. <i>Engineering Fracture Mechanics</i> , 2005, 72, 1818-1829.	4.3	8
32	Numerical modeling of experimental human fibrous cap delamination. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 59, 322-336.	3.1	8
33	Finite element analysis of creep fracture initiation in a model superalloy material. <i>International Journal of Fracture</i> , 1996, 81, 299-320.	2.2	7
34	Mixed-mode I/II fields around a crack with a cohesive zone ahead of the crack tip. <i>Mechanics Research Communications</i> , 2007, 34, 172-180.	1.8	7
35	Propagating interface cracks with frictionless contact. <i>Journal of the Mechanics and Physics of Solids</i> , 1993, 41, 531-540.	4.8	6
36	Plane strain near-tip fields for elastic-plastic interface cracks. <i>International Journal of Solids and Structures</i> , 1995, 32, 1727-1741.	2.7	5

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37	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
38	Deformation Scaling of Circular Plates Subjected to Dynamic Loading. Procedia IUTAM, 2012, 4, 196-205.	1.2	4
39	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
40	Computational Aspects of Three-Dimensional Crack Growth Simulations. , 2004, , 385.		3
41	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
42	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
43	Plane Stress Crack Tip Field Around a Rapidly Growing Ductile/Rigid Interface Crack. International Journal of Fracture, 1998, 90, 325-340.	2.2	1
44	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
45	Modeling of heat transfer in compacted machining chips during friction consolidation process. AIP Conference Proceedings, 2018, , .	0.4	1
46	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
47	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
48	Experiments, Analysis and Simulation of Mixed Mode Ductile Fracture. , 2005, , 179.		0
49	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
50	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