

A Needleman

List of Publications by Year in descending order

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243
papers

33,101
citations

7096

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244
times ranked

8660
citing authors

#	ARTICLE	IF	CITATIONS
1	An analysis of deformation and failure in rectangular tensile bars accounting for void shape changes. <i>International Journal of Fracture</i> , 2021, 230, 133-156.	2.2	5
2	Dynamic mode II crack growth along an interface between an elastic solid and a plastic solid. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 120, 22-35.	4.8	8
3	Effect of size on necking of dynamically loaded notched bars. <i>Mechanics of Materials</i> , 2018, 116, 180-188.	3.2	17
4	A model for creep of porous crystals with cubic symmetry. <i>International Journal of Solids and Structures</i> , 2017, 110-111, 67-79.	2.7	6
5	Finite deformation analysis of crack tip fields in plastically compressible hardening-softening-hardening solids. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017, 33, 148-158.	3.4	12
6	Engineering the crack path by controlling the microstructure. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 100, 1-20.	4.8	45
7	Indentation of pressurized viscoplastic polymer spherical shells. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 93, 16-33.	4.8	13
8	Effect of crystal orientation on porosity evolution in a creeping single crystal. <i>Mechanics of Materials</i> , 2015, 90, 10-29.	3.2	46
9	Indentation of elastically soft and plastically compressible solids. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2015, 31, 473-480.	3.4	21
10	The effect of loading rate on ductile fracture toughness and fracture surface roughness. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 76, 20-46.	4.8	40
11	Grain boundary crack growth in metastable titanium $\hat{\tau}^2$ alloys. <i>Acta Materialia</i> , 2015, 82, 167-178.	7.9	57
12	Effect of inclusion density on ductile fracture toughness and roughness. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 63, 62-79.	4.8	95
13	Some Issues in Cohesive Surface Modeling. <i>Procedia IUTAM</i> , 2014, 10, 221-246.	1.2	98
14	Phenomenological modeling of the effect of specimen thickness on the creep response of Ni-based superalloy single crystals. <i>Acta Materialia</i> , 2013, 61, 6506-6516.	7.9	26
15	Void growth versus void collapse in a creeping single crystal. <i>Journal of the Mechanics and Physics of Solids</i> , 2013, 61, 1169-1184.	4.8	55
16	Deformation of plastically compressible hardening-softening-hardening solids. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 1115-1124.	3.4	16
17	Effect of viscoplastic material parameters on polymer indentation. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2012, 20, 065002.	2.0	8
18	Effect of specimen thickness on the creep response of a Ni-based single-crystal superalloy. <i>Acta Materialia</i> , 2012, 60, 5697-5711.	7.9	96

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19	Porosity evolution in a creeping single crystal. Modelling and Simulation in Materials Science and Engineering, 2012, 20, 035010.	2.0	30
20	A finite strain, finite band method for modeling ductile fracture. International Journal of Plasticity, 2012, 28, 53-69.	8.8	49
21	Polymer indentation: Numerical analysis and comparison with a spherical cavity model. Journal of the Mechanics and Physics of Solids, 2011, 59, 1669-1684.	4.8	27
22	Hybrid discrete dislocation models for fatigue crack growth. International Journal of Fatigue, 2010, 32, 1511-1520.	5.7	29
23	Effect of an interphase region on debonding of a CNT reinforced polymer composite. Composites Science and Technology, 2010, 70, 2207-2215.	7.8	82
24	A finite thickness band method for ductile fracture analysis. International Journal of Plasticity, 2009, 25, 2349-2365.	8.8	69
25	Properties of dynamic rupture and energy partition in a solid with a frictional interface. Journal of the Mechanics and Physics of Solids, 2008, 56, 5-24.	4.8	78
26	The simulation of dynamic crack propagation using the cohesive segments method. Journal of the Mechanics and Physics of Solids, 2008, 56, 70-92.	4.8	187
27	Multi-scale plasticity modeling: Coupled discrete dislocation and continuum crystal plasticity. Journal of the Mechanics and Physics of Solids, 2008, 56, 3167-3180.	4.8	32
28	An analysis of thickness effects in the Izod test. International Journal of Solids and Structures, 2008, 45, 3951-3966.	2.7	25
29	Discrete dislocation plasticity analysis of the grain size dependence of the flow strength of polycrystals. International Journal of Plasticity, 2008, 24, 2149-2172.	8.8	104
30	Fatigue crack growth from a cracked elastic particle into a ductile matrix. Philosophical Magazine, 2008, 88, 3565-3583.	1.6	26
31	Multi-asperity contact: A comparison between discrete dislocation and crystal plasticity predictions. Philosophical Magazine, 2008, 88, 3713-3729.	1.6	23
32	Boundary damage effects on the evolution of creep strain. Modelling and Simulation in Materials Science and Engineering, 2008, 16, 075009.	2.0	6
33	The effect of indenter shape on sub-micron indentation according to discrete dislocation plasticity. Modelling and Simulation in Materials Science and Engineering, 2007, 15, S121-S131.	2.0	24
34	Chapter 71 Discrete Dislocation Plasticity Modeling of Contact and Friction. Dislocations in Solids, 2007, 13, 1-46.	1.6	1
35	Modeling of Brick Properties for Earth-Based Domes Structures. Materials and Manufacturing Processes, 2007, 22, 163-169.	4.7	0
36	Size effects in single asperity frictional contacts. Modelling and Simulation in Materials Science and Engineering, 2007, 15, S97-S108.	2.0	17

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37	Surface versus bulk nucleation of dislocations during contact. Journal of the Mechanics and Physics of Solids, 2007, 55, 1120-1144.	4.8	45
38	Three dimensional microstructural effects on plane strain ductile crack growth. International Journal of Solids and Structures, 2006, 43, 6165-6179.	2.7	42
39	Plastic deformation of freestanding thin films: Experiments and modeling. Journal of the Mechanics and Physics of Solids, 2006, 54, 2089-2110.	4.8	197
40	Discrete dislocation plasticity analysis of the wedge indentation of films. Journal of the Mechanics and Physics of Solids, 2006, 54, 2281-2303.	4.8	79
41	Statistical aspects of discrete dislocation plasticity. Scripta Materialia, 2006, 54, 729-733.	5.2	8
42	Size effects in uniaxial deformation of single and polycrystals: a discrete dislocation plasticity analysis. Modelling and Simulation in Materials Science and Engineering, 2006, 14, 409-422.	2.0	95
43	Effect of the number and orientation of active slip systems on plane strain single crystal indentation. Modelling and Simulation in Materials Science and Engineering, 2006, 14, 1105-1125.	2.0	28
44	Boundary conditions in small-deformation, single-crystal plasticity that account for the Burgers vector. Journal of the Mechanics and Physics of Solids, 2005, 53, 1-31.	4.8	174
45	Frictional sliding modes along an interface between identical elastic plates subject to shear impact loading. Journal of the Mechanics and Physics of Solids, 2005, 53, 884-922.	4.8	57
46	Plasticity size effects in tension and compression of single crystals. Journal of the Mechanics and Physics of Solids, 2005, 53, 2661-2691.	4.8	148
47	Size dependence of energy storage and dissipation in a discrete dislocation plasticity analysis of static friction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 400-401, 393-396.	5.6	2
48	A discrete dislocation plasticity analysis of grain-size strengthening. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 400-401, 186-190.	5.6	47
49	Discrete dislocation plasticity analysis of single slip tension. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 400-401, 154-157.	5.6	9
50	The stored energy of cold work: Predictions from discrete dislocation plasticity. Acta Materialia, 2005, 53, 4765-4779.	7.9	101
51	Reply to "Comment on "dislocation dynamics is chaotic". Scripta Materialia, 2005, 52, 429-431.	5.2	2
52	Discrete dislocation plasticity analysis of crack-tip fields in polycrystalline materials. Philosophical Magazine, 2005, 85, 3047-3071.	1.6	17
53	Two hardening mechanisms in single crystal thin films studied by discrete dislocation plasticity. Philosophical Magazine, 2005, 85, 1507-1518.	1.6	24
54	Elasticity: Finite Element Modeling. , 2005, , 1-6.		0

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55	Discrete Dislocation Plasticity. , 2005, , 1115-1131.		1
56	Incorporating three-dimensional mechanisms into two-dimensional dislocation dynamics. Modelling and Simulation in Materials Science and Engineering, 2004, 12, 159-196.	2.0	150
57	Void nucleation by inclusion cracking. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 1745-1755.	2.2	47
58	3D analyses of the effect of weld orientation in Charpy specimens. Engineering Fracture Mechanics, 2004, 71, 2179-2195.	4.3	27
59	Material inertia and size effects in the Charpy V-notch test. European Journal of Mechanics, A/Solids, 2004, 23, 373-386.	3.7	5
60	Discrete dislocation plasticity analysis of static friction. Acta Materialia, 2004, 52, 3135-3149.	7.9	47
61	Discrete Dislocation Predictions of Single Crystal Fatigue Crack Growth. Solid Mechanics and Its Applications, 2004, , 79-86.	0.2	0
62	Crack tip fields at a ductile single crystal-rigid material interface. International Journal of Fracture, 2003, 122, 131-159.	2.2	12
63	Nonlocal approach in evaluating strain localization behaviors of voided ductile materials. Metals and Materials International, 2003, 9, 405-412.	3.4	4
64	A cohesive segments method for the simulation of crack growth. Computational Mechanics, 2003, 31, 69-77.	4.0	259
65	GNDs in nonlocal plasticity theories: lessons from discrete dislocation simulations. Scripta Materialia, 2003, 48, 127-132.	5.2	23
66	Friction stress effects on mode I crack growth predictions. Scripta Materialia, 2003, 48, 755-759.	5.2	7
67	Finite strain discrete dislocation plasticity. Journal of the Mechanics and Physics of Solids, 2003, 51, 2057-2083.	4.8	63
68	Stochastic microcrack nucleation in lamellar solids. Engineering Fracture Mechanics, 2003, 70, 1869-1884.	4.3	14
69	A comparison of nonlocal continuum and discrete dislocation plasticity predictions. Journal of the Mechanics and Physics of Solids, 2003, 51, 281-310.	4.8	197
70	Discrete dislocation plasticity modeling of short cracks in single crystals. Acta Materialia, 2003, 51, 1-15.	7.9	93
71	Scaling of discrete dislocation predictions for near-threshold fatigue crack growth. Acta Materialia, 2003, 51, 4637-4651.	7.9	45
72	3D Charpy specimen analyses for welds. European Structural Integrity Society, 2002, 30, 437-444.	0.1	3

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73	An analysis of inclusion morphology effects on void nucleation. Modelling and Simulation in Materials Science and Engineering, 2002, 10, 163-183.	2.0	54
74	Aspects of boundary-value problem solutions with three-dimensional dislocation dynamics. Modelling and Simulation in Materials Science and Engineering, 2002, 10, 437-468.	2.0	236
75	Micromechanics Simulations of Fracture. Annual Review of Materials Research, 2002, 32, 141-162.	9.3	29
76	Crack growth across colony boundaries in binary lamellar TiAl. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 329-331, 532-537.	5.6	20
77	Discrete dislocation modeling of fatigue crack propagation. Acta Materialia, 2002, 50, 831-846.	7.9	124
78	Buckling of sandwich beams with compliant interfaces. Computers and Structures, 2002, 80, 1329-1335.	4.4	42
79	Size Effects in the Charpy V-Notch Test. International Journal of Fracture, 2002, 116, 275-296.	2.2	33
80	Effect of Peierls Stress on Mode I Crack Propagation. The Proceedings of the Computational Mechanics Conference, 2002, 2002.15, 297-298.	0.0	0
81	Dynamic Crack Growth along Interfaces. Solid Mechanics and Its Applications, 2002, , 261-270.	0.2	0
82	A critical evaluation of cohesive zone models of dynamic fractur. European Physical Journal Special Topics, 2001, 11, Pr5-43-Pr5-50.	0.2	109
83	The Modified Gurson Model. , 2001, , 430-435.		12
84	Boundary layers in constrained plastic flow: comparison of nonlocal and discrete dislocation plasticity. Journal of the Mechanics and Physics of Solids, 2001, 49, 1361-1395.	4.8	177
85	A discrete dislocation analysis of near-threshold fatigue crack growth. Acta Materialia, 2001, 49, 3189-3203.	7.9	102
86	2D dislocation dynamics in thin metal layers. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 309-310, 274-277.	5.6	21
87	A discrete dislocation analysis of rate effects on mode I crack growth. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 317, 37-43.	5.6	19
88	Plastic flow in a composite: a comparison of nonlocal continuum and discrete dislocation predictions. International Journal of Solids and Structures, 2001, 38, 833-853.	2.7	86
89	Crack growth in lamellar titanium aluminide. International Journal of Fracture, 2001, 111, 163-189.	2.2	41
90	Discrete dislocation modeling in three-dimensional confined volumes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 309-310, 420-424.	5.6	64

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91	Discrete dislocation and continuum descriptions of plastic flow. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 309-310, 1-13.	5.6	50
92	Discrete dislocation plasticity and crack tip fields in single crystals. <i>Journal of the Mechanics and Physics of Solids</i> , 2001, 49, 2133-2153.	4.8	73
93	Dislocation dynamics is chaotic. <i>Scripta Materialia</i> , 2001, 45, 1047-1053.	5.2	29
94	Micromechanics of Fracture: Connecting Physics to Engineering. <i>MRS Bulletin</i> , 2001, 26, 211-214.	3.5	19
95	Analysis of the Charpy V-notch test for welds. <i>Engineering Fracture Mechanics</i> , 2000, 65, 627-643.	4.3	31
96	Computational mechanics at the mesoscale. <i>Acta Materialia</i> , 2000, 48, 105-124.	7.9	166
97	A discrete dislocation analysis of mode I crack growth. <i>Journal of the Mechanics and Physics of Solids</i> , 2000, 48, 1133-1157.	4.8	150
98	Numerical modeling of the ductile-brittle transition. <i>International Journal of Fracture</i> , 2000, 101, 73-97.	2.2	49
99	Microcrack nucleation and growth in elastic lamellar solids. <i>International Journal of Fracture</i> , 2000, 105, 321-342.	2.2	15
100	Simulated small-angle scattering patterns for a plastically deformed model composite material. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2000, 8, 557-581.	2.0	5
101	An Analysis of Interfacial Crack Growth Under Shear Loading. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1999, 66, 847-857.	2.2	78
102	Energy dissipation in dynamic fracture of brittle materials. <i>Modelling and Simulation in Materials Science and Engineering</i> , 1999, 7, 573-586.	2.0	40
103	The effect of bond strength and loading rate on the conditions governing the attainment of interfacial crack growth along interfaces. <i>Journal of the Mechanics and Physics of Solids</i> , 1999, 47, 2411-2449.	4.8	108
104	A discrete dislocation analysis of bending. <i>International Journal of Plasticity</i> , 1999, 15, 837-868.	8.8	158
105	A micromechanical analysis of the ductile-brittle transition at a weld. <i>Engineering Fracture Mechanics</i> , 1999, 62, 317-338.	4.3	18
106	Modeling and Simulation of Dynamic Fragmentation in Brittle Materials. <i>International Journal of Fracture</i> , 1999, 96, 101-125.	2.2	112
107	Oscillatory crack growth in glass. <i>Scripta Materialia</i> , 1999, 41, 275-281.	5.2	21
108	A discrete dislocation analysis of residual stresses in a composite material. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1999, 79, 893-920.	0.6	51

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109	A Discrete Dislocation Analysis of Crack Growth under Cyclic Loading. Materials Research Society Symposia Proceedings, 1999, 578, 293.	0.1	1
110	A discrete dislocation analysis of residual stresses in a composite material. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1999, 79, 893-920.	0.6	2
111	The effect of plasticity on dynamic crack growth across an interface. International Journal of Fracture, 1998, 94, 383-399.	2.2	16
112	Dynamic crack growth in a nonlocal progressively cavitating solid. European Journal of Mechanics, A/Solids, 1998, 17, 421-438.	3.7	32
113	Discrete Dislocations Interacting with a Mode I Crack. Materials Research Society Symposia Proceedings, 1998, 538, 39.	0.1	1
114	Discrete dislocation simulations and size dependent hardening in single slip. European Physical Journal Special Topics, 1998, 08, Pr4-83-Pr4-92.	0.2	22
115	Effect of inhomogeneities on dynamic crack growth in an elastic solid. Modelling and Simulation in Materials Science and Engineering, 1997, 5, 489-516.	2.0	28
116	Dynamic crack growth across an interface. International Journal of Fracture, 1997, 85, 381-402.	2.2	59
117	Numerical modeling of crack growth under dynamic loading conditions. Computational Mechanics, 1997, 19, 463-469.	4.0	50
118	Comparison of discrete dislocation and continuum plasticity predictions for a composite material. Acta Materialia, 1997, 45, 3163-3179.	7.9	198
119	A numerical study of dynamic crack growth in elastic-viscoplastic solids. International Journal of Solids and Structures, 1997, 34, 769-787.	2.7	71
120	Nonlocal effects on localization in a void-sheet. International Journal of Solids and Structures, 1997, 34, 2221-2238.	2.7	72
121	Effect of interfacial compliance on bifurcation of a layer bonded to a substrate. International Journal of Solids and Structures, 1997, 34, 4305-4326.	2.7	63
122	Numerical Studies of Fast Crack Growth in Elastic-Plastic Solids. Solid Mechanics and Its Applications, 1997, , 211-220.	0.2	1
123	Numerical Modeling of the Ductile-Brittle Transition. European Physical Journal Special Topics, 1996, 06, C6-325-C6-334.	0.2	0
124	Three dimensional analysis of dynamic ductile crack growth in a thin plate. Journal of the Mechanics and Physics of Solids, 1996, 44, 439-459.	4.8	67
125	Constraint effects on the ductile-brittle transition in small scale yielding. Journal of the Mechanics and Physics of Solids, 1996, 44, 1255-1282.	4.8	43
126	Numerical simulations of dynamic interfacial crack growth allowing for crack growth away from the bond line. International Journal of Fracture, 1996, 74, 253-275.	2.2	74

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127	Numerical simulations of dynamic crack growth along an interface. International Journal of Fracture, 1996, 74, 289-324.	2.2	191
128	The Analysis of Localized Plastic Flow. , 1996, , 537-561.		0
129	Failure Mode Interaction in Metal-Matrix Composites. Solid Mechanics and Its Applications, 1996, , 207-214.	0.2	0
130	Effects of reinforcement orientation on the tensile response of metal-matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 197, 1-10.	5.6	41
131	Analysis of a brittle-ductile transition under dynamic shear loading. International Journal of Solids and Structures, 1995, 32, 2571-2590.	2.7	77
132	Void growth due to creep and grain boundary diffusion at high triaxialities. Journal of the Mechanics and Physics of Solids, 1995, 43, 123-165.	4.8	75
133	Effective plastic response of two-phase composites. Acta Metallurgica Et Materialia, 1995, 43, 1701-1722.	1.8	105
134	Discrete dislocation plasticity: a simple planar model. Modelling and Simulation in Materials Science and Engineering, 1995, 3, 689-735.	2.0	776
135	Computational Modeling of Material Failure. Applied Mechanics Reviews, 1994, 47, S34-S42.	10.1	23
136	Mesh effects in the analysis of dynamic ductile crack growth. Engineering Fracture Mechanics, 1994, 47, 75-91.	4.3	70
137	Issues in the finite element modeling of polyphase plasticity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 175, 43-48.	5.6	10
138	Ductile failure analyses on massively parallel computers. Computer Methods in Applied Mechanics and Engineering, 1994, 119, 283-309.	6.6	36
139	Numerical simulations of fast crack growth in brittle solids. Journal of the Mechanics and Physics of Solids, 1994, 42, 1397-1434.	4.8	2,011
140	Finite element simulations of shear localization in plate impact. Journal of the Mechanics and Physics of Solids, 1994, 42, 423-458.	4.8	105
141	Micromechanical modeling of reinforcement fracture in particle-reinforced metal-matrix composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1994, 25, 2403-2420.	2.2	117
142	Coefficients of thermal expansion of metal-matrix composites for electronic packaging. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1994, 25, 839-850.	2.2	132
143	Effective elastic response of two-phase composites. Acta Metallurgica Et Materialia, 1994, 42, 77-97.	1.8	128
144	3D analysis of failure modes in the Charpy impact test. Modelling and Simulation in Materials Science and Engineering, 1994, 2, 617-635.	2.0	52

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145	The role of material inhomogeneities in the localization of strains. AIP Conference Proceedings, 1994, ,	0.4	0
146	Dynamic 3D analysis of the Charpy V-notch test. Modelling and Simulation in Materials Science and Engineering, 1993, 1, 467-484.	2.0	29
147	Void nucleation by inclusion debonding in a crystal matrix. Modelling and Simulation in Materials Science and Engineering, 1993, 1, 111-132.	2.0	616
148	An analysis of equilibrium dislocation distributions. Acta Metallurgica Et Materialia, 1993, 41, 625-642.	1.8	117
149	Finite Element Simulations of Fiber Pull-Out. Journal of Engineering Materials and Technology, Transactions of the ASME, 1993, 115, 286-291.	1.4	51
150	Comparison of Crystal Plasticity and Isotropic Hardening Predictions for Metal-Matrix Composites. Journal of Applied Mechanics, Transactions ASME, 1993, 60, 70-76.	2.2	51
151	An analysis of the brittle-ductile transition in dynamic crack growth. International Journal of Fracture, 1993, 59, 53-67.	2.2	51
152	Tensile Properties of Whisker Reinforced Metals: Variations with Grain Size**Dedicated to Professor Frithof Niordson on the occasion of his 70th birthday.. , 1993, , 97-112.		0
153	Analyses of Plastic Flow Localization in Metals. Applied Mechanics Reviews, 1992, 45, S3-S18.	10.1	128
154	Thermally and mechanically induced residual strains in Al-SiC composites. Acta Metallurgica Et Materialia, 1992, 40, 2391-2412.	1.8	85
155	Analysis of creep in thermally cycled Al/SiC composites. Scripta Metallurgica Et Materialia, 1992, 26, 461-466.	1.0	12
156	Effect of crack meandering on dynamic, ductile fracture. Journal of the Mechanics and Physics of Solids, 1992, 40, 447-471.	4.8	70
157	The influence of nucleation criterion on shear localization in rate-sensitive porous plastic solids. International Journal of Plasticity, 1992, 8, 315-330.	8.8	13
158	Three-dimensional analysis of creep in a metal matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1992, 158, 129-137.	5.6	24
159	Summary report: computational issues in the mechanical behavior of metals and intermetallics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1992, 159, 1-34.	5.6	20
160	Stability of solids with interfaces. Journal of the Mechanics and Physics of Solids, 1992, 40, 613-640.	4.8	55
161	Indentation of porous solids. International Journal of Solids and Structures, 1992, 29, 1613-1636.	2.7	94
162	Micromechanical modelling of interfacial decohesion. Ultramicroscopy, 1992, 40, 203-214.	1.9	161

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163	An experimental and numerical study of cyclic deformation in metal-matrix composites. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1992, 23, 919-934.	1.4	105
164	Void Growth in Plastic Solids. , 1992, , 145-178.		39
165	Deformation of a Meta-Ceramic Composite with a Crystal Matrix: Reinforcement Distribution Effects. , 1992, , 199-213.		0
166	Mechanically induced residual stresses in Al/SiC composites. Scripta Metallurgica Et Materialia, 1991, 25, 1883-1888.	1.0	14
167	An analysis of the effects of matrix void growth on deformation and ductility in metal-ceramic composites. Acta Metallurgica Et Materialia, 1991, 39, 2317-2335.	1.8	340
168	An analysis of the effect of residual stresses on deformation and damage mechanisms in Al ₃ SiC composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 132, 31-38.	5.6	77
169	Effect of boundaries and interfaces on shear-band localization. International Journal of Solids and Structures, 1991, 28, 859-877.	2.7	53
170	A numerical study of void distribution effects on dynamic, ductile crack growth. Engineering Fracture Mechanics, 1991, 38, 157-173.	4.3	57
171	An analysis of dynamic, ductile crack growth in a double edge cracked specimen. International Journal of Fracture, 1991, 49, 41-67.	2.2	117
172	On the Competition Between Failure and Instability in Progressively Softening Solids. Journal of Applied Mechanics, Transactions ASME, 1991, 58, 294-296.	2.2	4
173	The Effect of Superposed Hydrostatic Stress on the Mechanical Response of Metal-Matrix Composites. , 1991, , 309-323.		8
174	Crack growth by grain boundary cavitation in the transient and extensive creep regimes. International Journal of Fracture, 1991, 52, 159-189.	2.2	3
175	Analyses of Dynamic Ductile Crack Growth. Applied Mechanics Reviews, 1990, 43, S258-S259.	10.1	0
176	Analyses of Interfacial Failure. Applied Mechanics Reviews, 1990, 43, S274-S275.	10.1	3
177	An analysis of decohesion along an imperfect interface. International Journal of Fracture, 1990, 42, 21-40.	2.2	434
178	An analysis of residual stress formation in whisker-reinforced Al ₃ SiC composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1990, 125, 129-140.	5.6	70
179	An analysis of tensile decohesion along an interface. Journal of the Mechanics and Physics of Solids, 1990, 38, 289-324.	4.8	524
180	The baushinger effect in whisker-reinforced metal-matrix composites. Scripta Metallurgica Et Materialia, 1990, 24, 1203-1208.	1.0	42

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181	An analysis of decohesion along an imperfect interface. , 1990, , 21-40.		75
182	Dynamic Shear Band Development in Plane Strain. Journal of Applied Mechanics, Transactions ASME, 1989, 56, 1-9.	2.2	134
183	On microstructural evolution and micromechanical modelling of deformation of a whisker-reinforced metal-matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1989, 107, 49-61.	5.6	231
184	A finite element method for analyzing localization in rate dependent solids at finite strains. Computer Methods in Applied Mechanics and Engineering, 1989, 73, 235-258.	6.6	42
185	An analysis of ductile failure by grain boundary void growth. Acta Metallurgica, 1989, 37, 99-120.	2.1	52
186	An experimental and numerical study of deformation in metal-ceramic composites. Acta Metallurgica, 1989, 37, 3029-3050.	2.1	739
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