

Norman A Fleck

List of Publications by Year in descending order

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230
papers

28,360
citations

7568

77
h-index

5394

164
g-index

231
all docs

231
docs citations

231
times ranked

10920
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain gradient plasticity: Theory and experiment. <i>Acta Metallurgica Et Materialia</i> , 1994, 42, 475-487.	1.8	3,239
2	Strain Gradient Plasticity. <i>Advances in Applied Mechanics</i> , 1997, , 295-361.	2.3	1,325
3	A phenomenological theory for strain gradient effects in plasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 1993, 41, 1825-1857.	4.8	1,299
4	Effective properties of the octet-truss lattice material. <i>Journal of the Mechanics and Physics of Solids</i> , 2001, 49, 1747-1769.	4.8	1,249
5	Foam topology: bending versus stretching dominated architectures. <i>Acta Materialia</i> , 2001, 49, 1035-1040.	7.9	1,142
6	Isotropic constitutive models for metallic foams. <i>Journal of the Mechanics and Physics of Solids</i> , 2000, 48, 1253-1283.	4.8	1,024
7	A reformulation of strain gradient plasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2001, 49, 2245-2271.	4.8	1,002
8	The topological design of multifunctional cellular metals. <i>Progress in Materials Science</i> , 2001, 46, 309-327.	32.8	884
9	Compressive failure of fibre composites. <i>Journal of the Mechanics and Physics of Solids</i> , 1993, 41, 183-211.	4.8	668
10	High strain rate compressive behaviour of aluminium alloy foams. <i>International Journal of Impact Engineering</i> , 2000, 24, 277-298.	5.0	534
11	Micro-hardness of annealed and work-hardened copper polycrystals. <i>Scripta Materialia</i> , 1996, 34, 559-564.	5.2	509
12	Collapse of truss core sandwich beams in 3-point bending. <i>International Journal of Solids and Structures</i> , 2001, 38, 6275-6305.	2.7	448
13	A constitutive model for ferroelectric polycrystals. <i>Journal of the Mechanics and Physics of Solids</i> , 1999, 47, 1663-1697.	4.8	384
14	Effect of imperfections on the yielding of two-dimensional foams. <i>Journal of the Mechanics and Physics of Solids</i> , 1999, 47, 2235-2272.	4.8	381
15	Spherical indentation of elastic-plastic solids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1999, 455, 2707-2728.	2.1	377
16	Yielding of metal powder bonded by isolated contacts. <i>Journal of the Mechanics and Physics of Solids</i> , 1992, 40, 1139-1162.	4.8	276
17	Multi-axial yield behaviour of polymer foams. <i>Acta Materialia</i> , 2001, 49, 1859-1866.	7.9	266
18	Finite elements for materials with strain gradient effects. <i>International Journal for Numerical Methods in Engineering</i> , 1999, 44, 373-391.	2.8	246

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19	Multi-axial electrical switching of a ferroelectric: theory versus experiment. <i>Journal of the Mechanics and Physics of Solids</i> , 2001, 49, 785-811.	4.8	234
20	The structural performance of the periodic truss. <i>Journal of the Mechanics and Physics of Solids</i> , 2006, 54, 756-782.	4.8	234
21	Crack path selection in a brittle adhesive layer. <i>International Journal of Solids and Structures</i> , 1991, 27, 1683-1703.	2.7	229
22	On the cold compaction of powders. <i>Journal of the Mechanics and Physics of Solids</i> , 1995, 43, 1409-1431.	4.8	216
23	The use of metal foam projectiles to simulate shock loading on a structure. <i>International Journal of Impact Engineering</i> , 2005, 31, 1152-1171.	5.0	215
24	The compressive and shear responses of corrugated and diamond lattice materials. <i>International Journal of Solids and Structures</i> , 2006, 43, 6220-6242.	2.7	214
25	Collapse mechanisms of sandwich beams with composite faces and a foam core, loaded in three-point bending. Part I: analytical models and minimum weight design. <i>International Journal of Mechanical Sciences</i> , 2004, 46, 561-583.	6.7	211
26	The out-of-plane compressive behavior of metallic honeycombs. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 380, 272-280.	5.6	206
27	A mathematical basis for strain-gradient plasticity theory—Part I: Scalar plastic multiplier. <i>Journal of the Mechanics and Physics of Solids</i> , 2009, 57, 161-177.	4.8	206
28	A mathematical basis for strain-gradient plasticity theory. Part II: Tensorial plastic multiplier. <i>Journal of the Mechanics and Physics of Solids</i> , 2009, 57, 1045-1057.	4.8	199
29	The response of clamped sandwich plates with metallic foam cores to simulated blast loading. <i>International Journal of Solids and Structures</i> , 2006, 43, 2243-2259.	2.7	194
30	Compression Failure Mechanisms in Unidirectional Composites. <i>Journal of Composite Materials</i> , 1992, 26, 2706-2726.	2.4	188
31	Strain gradient crystal plasticity: size-dependent deformation of bicrystals. <i>Journal of the Mechanics and Physics of Solids</i> , 1999, 47, 297-324.	4.8	185
32	Compressive Failure of Fiber Composites. <i>Advances in Applied Mechanics</i> , 1997, , 43-117.	2.3	183
33	Deformation and fracture of aluminium foams. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 291, 136-146.	5.6	181
34	The simulation of switching in polycrystalline ferroelectric ceramics. <i>Journal of Applied Physics</i> , 1998, 84, 1530-1540.	2.5	178
35	Fatigue failure of an open cell and a closed cell aluminium alloy foam. <i>Acta Materialia</i> , 1999, 47, 2511-2524.	7.9	178
36	The damage tolerance of elastic—brittle, two-dimensional isotropic lattices. <i>Journal of the Mechanics and Physics of Solids</i> , 2007, 55, 562-588.	4.8	176

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37	The prediction of a size effect in microindentation. <i>International Journal of Solids and Structures</i> , 1998, 35, 1363-1383.	2.7	175
38	Collapse mechanisms of sandwich beams with composite faces and a foam core, loaded in three-point bending. Part II: experimental investigation and numerical modelling. <i>International Journal of Mechanical Sciences</i> , 2004, 46, 585-608.	6.7	175
39	Performance of metallic honeycomb-core sandwich beams under shock loading. <i>International Journal of Solids and Structures</i> , 2006, 43, 1746-1763.	2.7	166
40	The high strain rate response of Ultra High Molecular-weight Polyethylene: From fibre to laminate. <i>International Journal of Impact Engineering</i> , 2013, 60, 1-9.	5.0	166
41	Frictionless indentation of dissimilar elastic-plastic spheres. <i>International Journal of Solids and Structures</i> , 2000, 37, 7071-7091.	2.7	163
42	The role of strain gradients in the grain size effect for polycrystals. <i>Journal of the Mechanics and Physics of Solids</i> , 1996, 44, 465-495.	4.8	160
43	The viscoplastic compaction of composite powders. <i>Journal of the Mechanics and Physics of Solids</i> , 1999, 47, 785-815.	4.8	147
44	Mechanisms of deep penetration of soft solids, with application to the injection and wounding of skin. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2004, 460, 3037-3058.	2.1	147
45	The response of clamped sandwich beams subjected to shock loading. <i>International Journal of Impact Engineering</i> , 2006, 32, 968-987.	5.0	147
46	Finite element analysis of plasticity-induced crack closure under plane strain conditions. <i>Engineering Fracture Mechanics</i> , 1986, 25, 441-449.	4.3	146
47	Overview no. 112. <i>Acta Metallurgica Et Materialia</i> , 1994, 42, 365-381.	1.8	145
48	The plastic collapse of sandwich beams with a metallic foam core. <i>International Journal of Mechanical Sciences</i> , 2001, 43, 1483-1506.	6.7	142
49	Mechanisms of crack bridging by composite and metallic rods. <i>Composites Part A: Applied Science and Manufacturing</i> , 2004, 35, 1325-1336.	7.6	139
50	The stiffness and strength of the gyroid lattice. <i>International Journal of Solids and Structures</i> , 2014, 51, 3866-3877.	2.7	139
51	Interfacial cracking from the freeedge of a long bi-material strip. <i>International Journal of Solids and Structures</i> , 1997, 34, 1645-1665.	2.7	132
52	Actuator Classification and Selection—The Development of a Database. <i>Advanced Engineering Materials</i> , 2002, 4, 933-940.	3.5	132
53	The effect of shear strength on the ballistic response of laminated composite plates. <i>European Journal of Mechanics, A/Solids</i> , 2013, 42, 35-53.	3.7	131
54	The high strain rate response of PVC foams and end-grain balsa wood. <i>Composites Part B: Engineering</i> , 2008, 39, 83-91.	12.0	129

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55	In-plane properties of composite laminates with through-thickness pin reinforcement. <i>International Journal of Solids and Structures</i> , 2006, 43, 3197-3212.	2.7	124
56	Size effects in the constrained deformation of metallic foams. <i>Journal of the Mechanics and Physics of Solids</i> , 2002, 50, 955-977.	4.8	123
57	Kagome plate structures for actuation. <i>International Journal of Solids and Structures</i> , 2003, 40, 6969-6980.	2.7	123
58	Finite element analysis of the dynamic response of clamped sandwich beams subject to shock loading. <i>European Journal of Mechanics, A/Solids</i> , 2003, 22, 801-814.	3.7	122
59	The response of clamped sandwich plates with lattice cores subjected to shock loading. <i>European Journal of Mechanics, A/Solids</i> , 2006, 25, 215-229.	3.7	122
60	The impulsive response of sandwich beams: Analytical and numerical investigation of regimes of behaviour. <i>Journal of the Mechanics and Physics of Solids</i> , 2006, 54, 2242-2280.	4.8	121
61	The role of geometrically necessary dislocations in giving material strengthening. <i>Scripta Materialia</i> , 2003, 48, 179-183.	5.2	117
62	Mechanisms governing the high temperature erosion of thermal barrier coatings. <i>Wear</i> , 2004, 256, 735-746.	3.1	112
63	The effect of pin reinforcement upon the through-thickness compressive strength of foam-cored sandwich panels. <i>Composites Science and Technology</i> , 2003, 63, 2401-2409.	7.8	111
64	Microbuckle initiation in fibre composites : A finite element study. <i>Journal of the Mechanics and Physics of Solids</i> , 1995, 43, 1887-1918.	4.8	109
65	An underwater shock simulator. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006, 462, 1021-1041.	2.1	107
66	Compressive Kinking of Fiber Composites: A Topical Review. <i>Applied Mechanics Reviews</i> , 1994, 47, S246-S250.	10.1	104
67	Impulsive loading of clamped monolithic and sandwich beams over a central patch. <i>Journal of the Mechanics and Physics of Solids</i> , 2005, 53, 1015-1046.	4.8	102
68	End compression of sandwich columns. <i>Composites Part A: Applied Science and Manufacturing</i> , 2002, 33, 353-359.	7.6	101
69	The fatigue strength of sandwich beams with an aluminium alloy foam core. <i>International Journal of Fatigue</i> , 2001, 23, 499-507.	5.7	95
70	Indentation of porous solids. <i>International Journal of Solids and Structures</i> , 1992, 29, 1613-1636.	2.7	94
71	Indentation resistance of an aluminium foam. <i>Scripta Materialia</i> , 2000, 43, 983-989.	5.2	88
72	Dynamic crushing of sandwich panels with prismatic lattice cores. <i>International Journal of Solids and Structures</i> , 2007, 44, 6101-6123.	2.7	86

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91	A fracture criterion for the notch strength of high strength steels in the presence of hydrogen. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 63, 80-93.	4.8	61
92	Dynamic crack growth across an interface. <i>International Journal of Fracture</i> , 1997, 85, 381-402.	2.2	59
93	A constitutive model for transversely isotropic foams, and its application to the indentation of balsa wood. <i>International Journal of Mechanical Sciences</i> , 2005, 47, 666-686.	6.7	59
94	The mechanical and electrical properties of direct-spun carbon nanotube mats. <i>Extreme Mechanics Letters</i> , 2018, 21, 65-75.	4.1	59
95	Fatigue crack growth in ferroelectrics under electrical loading. <i>Journal of the European Ceramic Society</i> , 2006, 26, 95-109.	5.7	58
96	Scaling laws governing the erosion and impact resistance of thermal barrier coatings. <i>Wear</i> , 2006, 260, 886-894.	3.1	58
97	The soft impact response of composite laminate beams. <i>International Journal of Impact Engineering</i> , 2013, 60, 24-36.	5.0	58
98	The role of plastic strain gradients in the crack growth resistance of metals. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 126, 136-150.	4.8	58
99	The low velocity impact response of sandwich beams with a corrugated core or a Y-frame core. <i>International Journal of Mechanical Sciences</i> , 2015, 91, 71-80.	6.7	57
100	Title is missing!. <i>International Journal of Fracture</i> , 2001, 111, 327-342.	2.2	56
101	Energy absorption of an egg-box material. <i>Journal of the Mechanics and Physics of Solids</i> , 2003, 51, 187-208.	4.8	55
102	An analytic model for the response to water blast of unsupported metallic sandwich panels. <i>International Journal of Solids and Structures</i> , 2008, 45, 478-496.	2.7	55
103	The soft impact of composite sandwich beams with a square-honeycomb core. <i>International Journal of Impact Engineering</i> , 2012, 48, 65-81.	5.0	54
104	Detachment of an adhered micropillar from a dissimilar substrate. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 75, 159-183.	4.8	53
105	Tensile response of elastoplastic lattices at finite strain. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 109, 307-330.	4.8	53
106	Thermal shock resistance of air plasma sprayed thermal barrier coatings. <i>Journal of the European Ceramic Society</i> , 2014, 34, 2687-2694.	5.7	51
107	Microbuckle propagation in a unidirectional carbon fibre-epoxy matrix composite. <i>Acta Materialia</i> , 1996, 44, 2581-2590.	7.9	50
108	Underwater blast response of free-standing sandwich plates with metallic lattice cores. <i>International Journal of Impact Engineering</i> , 2010, 37, 1138-1149.	5.0	49

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109	An evaluation of switching criteria for ferroelectrics under stress and electric field. <i>Acta Materialia</i> , 2003, 51, 6123-6137.	7.9	48
110	Underwater blast loading of sandwich beams: Regimes of behaviour. <i>International Journal of Solids and Structures</i> , 2009, 46, 3209-3221.	2.7	47
111	The edge cracking and decohesion of thin films. <i>International Journal of Solids and Structures</i> , 1994, 31, 3175-3199.	2.7	45
112	The impact of sand slugs against beams and plates: Coupled discrete particle/finite element simulations. <i>Journal of the Mechanics and Physics of Solids</i> , 2013, 61, 1798-1821.	4.8	45
113	The compressive response of ultra-high molecular weight polyethylene fibres and composites. <i>International Journal of Solids and Structures</i> , 2015, 71, 141-155.	2.7	45
114	Influence of imperfections on the performance of metal foam core sandwich panels. <i>International Journal of Solids and Structures</i> , 2002, 39, 4999-5012.	2.7	44
115	Microarchitected cellular solids - the hunt for statically determinate periodic trusses. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2005, 85, 607-617.	1.6	44
116	A sintering model for thermal barrier coatings. <i>Acta Materialia</i> , 2006, 54, 1297-1306.	7.9	44
117	Size effects in the bending of thin foils. <i>International Journal of Engineering Science</i> , 2009, 47, 1251-1264.	5.0	44
118	The microstructural basis for the mechanical properties and electrical resistivity of nanocrystalline Cu ϵ Al ϵ O ϵ 3. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 5065-5071.	5.6	44
119	Perspectives for next generation lithium-ion battery cathode materials. <i>APL Materials</i> , 2021, 9, .	5.1	44
120	Bounds and estimates for the effect of strain gradients upon the effective plastic properties of an isotropic two-phase composite. <i>Journal of the Mechanics and Physics of Solids</i> , 2004, 52, 1855-1888.	4.8	42
121	Size effects in the conical indentation of an elasto-plastic solid. <i>Journal of the Mechanics and Physics of Solids</i> , 2012, 60, 1605-1625.	4.8	42
122	Prediction of the dynamic response of composite sandwich beams under shock loading. <i>International Journal of Impact Engineering</i> , 2010, 37, 854-864.	5.0	40
123	Crack tunneling and plane-strain delamination in layered solids. <i>International Journal of Fracture</i> , 2004, 125, 1-32.	2.2	39
124	Numerical simulations of crack formation from pegs in thermal barrier systems with NiCoCrAlY bond coats. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 404, 26-32.	5.6	39
125	Damage tolerance of an elastic-brittle diamond-celled honeycomb. <i>Scripta Materialia</i> , 2007, 56, 693-696.	5.2	38
126	The erosion of EB-PVD thermal barrier coatings: The competition between mechanisms. <i>Wear</i> , 2010, 268, 1214-1224.	3.1	38

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127	Collapse of a composite beam made from ultra high molecular-weight polyethylene fibres. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 63, 320-335.	4.8	38
128	Toughening strategies in adhesive joints. <i>International Journal of Solids and Structures</i> , 2019, 158, 66-75.	2.7	38
129	Dendrites as climbing dislocations in ceramic electrolytes: Initiation of growth. <i>Journal of Power Sources</i> , 2020, 456, 227989.	7.8	38
130	Compaction of an array of spherical particles. <i>Acta Metallurgica Et Materialia</i> , 1995, 43, 603-620.	1.8	36
131	The collapse response of sandwich beams with a Y-frame core subjected to distributed and local loading. <i>International Journal of Mechanical Sciences</i> , 2008, 50, 233-246.	6.7	36
132	The fracture toughness of a cordierite square lattice. <i>Acta Materialia</i> , 2010, 58, 201-207.	7.9	36
133	Failure mechanisms of a notched CFRP laminate under multi-axial loading. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 77, 56-66.	7.6	36
134	Hydrostatic compaction of cylindrical particles. <i>Journal of the Mechanics and Physics of Solids</i> , 1994, 42, 1067-1085.	4.8	34
135	Size effects in the torsion of thin metal wires. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2010, 18, 015009.	2.0	34
136	Strain gradient plasticity: energetic or dissipative?. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2015, 31, 465-472.	3.4	34
137	The tensile ductility of cellular Solids: The role of imperfections. <i>International Journal of Solids and Structures</i> , 2016, 102-103, 200-213.	2.7	33
138	The shear response of metallic square honeycombs. <i>Journal of Mechanics of Materials and Structures</i> , 2006, 1, 1281-1299.	0.6	32
139	The mechanical and electrical properties of direct-spun carbon nanotube mat-epoxy composites. <i>Carbon</i> , 2019, 150, 489-504.	10.3	32
140	Collapse mechanism maps for the hollow pyramidal core of a sandwich panel under transverse shear. <i>International Journal of Solids and Structures</i> , 2011, 48, 3417-3430.	2.7	31
141	Cohesive detachment of an elastic pillar from a dissimilar substrate. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 101, 30-43.	4.8	31
142	Compressive strength of composite laminates with terminated internal plies. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005, 36, 798-805.	7.6	30
143	Growth rate of lithium filaments in ceramic electrolytes. <i>Acta Materialia</i> , 2020, 196, 444-455.	7.9	30
144	Microbuckle initiation from a patch of large amplitude fibre waviness in a composite under compression and bending. <i>European Journal of Mechanics, A/Solids</i> , 2001, 20, 23-37.	3.7	29

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145	Modelling of fatigue crack tunneling and delamination in layered composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006, 37, 1722-1733.	7.6	29
146	The elastic-plastic indentation response of a columnar thermal barrier coating. <i>Wear</i> , 2010, 268, 443-454.	3.1	29
147	Dynamic buckling of an inclined strut. <i>International Journal of Solids and Structures</i> , 2012, 49, 2830-2838.	2.7	29
148	The indentation response of Nickel nano double gyroid lattices. <i>Extreme Mechanics Letters</i> , 2017, 10, 15-23.	4.1	28
149	The role of defects in dictating the strength of brittle honeycombs made by rapid prototyping. <i>Acta Materialia</i> , 2019, 171, 190-200.	7.9	28
150	Singular Plastic Fields in Steady Penetration of a Rigid Cone. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1992, 59, 706-710.	2.2	27
151	A multi-scale constitutive model for the sintering of an air-plasma-sprayed thermal barrier coating, and its response under hot isostatic pressing. <i>Journal of the Mechanics and Physics of Solids</i> , 2009, 57, 689-705.	4.8	27
152	Discrete element calculations of the impact of a sand column against rigid structures. <i>International Journal of Impact Engineering</i> , 2012, 45, 74-89.	5.0	27
153	Analysis of thermal desorption of hydrogen in metallic alloys. <i>Acta Materialia</i> , 2018, 144, 777-785.	7.9	27
154	Optimal design of box-section sandwich beams in three-point bending. <i>International Journal of Solids and Structures</i> , 2007, 44, 4742-4769.	2.7	26
155	Compliant interfaces: A mechanism for relaxation of dislocation pile-ups in a sheared single crystal. <i>International Journal of Plasticity</i> , 2010, 26, 1792-1805.	8.8	26
156	A brick model for asperity sintering and creep of APS TBCs. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 63, 412-431.	4.8	26
157	Elastic Boundary Layers in Two-Dimensional Isotropic Lattices. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2008, 75, .	2.2	25
158	Compressive response of the Y-shaped sandwich core. <i>European Journal of Mechanics, A/Solids</i> , 2006, 25, 125-141.	3.7	24
159	The dynamic indentation response of sandwich panels with a corrugated or Y-frame core. <i>International Journal of Mechanical Sciences</i> , 2015, 92, 279-289.	6.7	24
160	Deformation and failure maps for PMMA in uniaxial tension. <i>Polymer</i> , 2018, 148, 259-268.	3.8	24
161	Mode I crack tip fields: Strain gradient plasticity theory versus J2 flow theory. <i>European Journal of Mechanics, A/Solids</i> , 2019, 75, 381-388.	3.7	23
162	A Systematic Approach to Process Selection in MEMS. <i>Journal of Microelectromechanical Systems</i> , 2006, 15, 1039-1050.	2.5	22

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163	An analysis of competing toughening mechanisms in layered and particulate solids. <i>International Journal of Fracture</i> , 2013, 183, 241-258.	2.2	21
164	Birefringence measurements of creep near an electrode tip in transparent PLZT. <i>Journal of the European Ceramic Society</i> , 2009, 29, 2289-2296.	5.7	20
165	High fracture toughness micro-architected materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 143, 104060.	4.8	20
166	Scale effects in the initiation of cracking of a scarf joint. <i>International Journal of Fracture</i> , 1999, 95, 67-88.	2.2	18
167	Perforation resistance of CFRP beams to quasi-static and ballistic loading: The role of matrix strength. <i>International Journal of Impact Engineering</i> , 2017, 108, 389-401.	5.0	18
168	The crack growth resistance of an elastoplastic lattice. <i>International Journal of Solids and Structures</i> , 2020, 188-189, 233-243.	2.7	18
169	Mode II fracture of an MMA adhesive layer: Theory versus experiment. <i>European Journal of Mechanics, A/Solids</i> , 2021, 86, 104133.	3.7	18
170	The initiation of void growth during stripping of Li electrodes in solid electrolyte cells. <i>Journal of Power Sources</i> , 2021, 488, 229437.	7.8	18
171	Creep Response of Sandwich Beams with a Metallic Foam Core. <i>Advanced Engineering Materials</i> , 2002, 4, 777-780.	3.5	17
172	Plastic collapse of thin-walled frusta and egg-box material under shear and normal loading. <i>International Journal of Mechanical Sciences</i> , 2006, 48, 799-808.	6.7	17
173	Shear fatigue strength of a prismatic diamond sandwich core. <i>Scripta Materialia</i> , 2007, 56, 585-588.	5.2	16
174	Tear resistance of a square-wave joint: Experiment versus cohesive zone model. <i>International Journal of Adhesion and Adhesives</i> , 2018, 84, 9-17.	2.9	16
175	Mechanical Properties of PMMA- ϵ -Sepiolite Nanocellular Materials with a Bimodal Cellular Structure. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900041.	3.6	16
176	Dynamic failure of clamped circular plates subjected to an underwater shock. <i>Journal of Mechanics of Materials and Structures</i> , 2007, 2, 2007-2023.	0.6	15
177	Compressive response of a sandwich plate containing a cracked diamond-celled lattice. <i>Journal of the Mechanics and Physics of Solids</i> , 2009, 57, 1545-1567.	4.8	15
178	The effect of laminate lay-up on the multi-axial notched strength of CFRP panels: Simulation versus experiment. <i>European Journal of Mechanics, A/Solids</i> , 2017, 66, 309-321.	3.7	15
179	Water rise in a cellulose foam: By capillary or diffusional flow?. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 124, 206-219.	4.8	15
180	The Influence of Strut Waviness on the Tensile Response of Lattice Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2021, 88, .	2.2	15

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181	Hydrogen embrittlement of a bimaterial. <i>Mechanics of Materials</i> , 2015, 80, 193-202.	3.2	14
182	Crack Growth Resistance in Metallic Alloys: The Role of Isotropic Versus Kinematic Hardening. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018, 85, .	2.2	14
183	High-fidelity characterization on anisotropic thermal conductivity of carbon nanotube sheets and on their effects of thermal enhancement of nanocomposites. <i>Nanotechnology</i> , 2018, 29, 365708.	2.6	14
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