

# Norman A Fleck

## List of Publications by Year in descending order

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229  
papers

28,360  
citations

7551

77  
h-index

5364

164  
g-index

231  
all docs

231  
docs citations

231  
times ranked

10920  
citing authors

#	ARTICLE	IF	CITATIONS
1	A compliant and low-expansion 2-phase micro-architected material, with potential application to solid-state Li-ion batteries. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 158, 104683.	2.3	4
2	Delamination of a sandwich layer by diffusion of a corrosive species: Initiation of growth. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 160, 104775.	2.3	3
3	Stabilization of ultrathin nanowires by self-assembly into bundles. <i>Acta Materialia</i> , 2022, , 117799.	3.8	4
4	Effect of Lithiation upon the Shear Strength of NMC811 Single Crystals. <i>Journal of the Electrochemical Society</i> , 2022, 169, 040511.	1.3	9
5	Interfacial delamination of a sandwich layer by aqueous corrosion. <i>Corrosion Science</i> , 2022, 203, 110356.	3.0	4
6	Pinching of gel-filled honeycomb. <i>International Journal of Solids and Structures</i> , 2022, 257, 111728.	1.3	3
7	Moisture-induced cracking in a flexural bilayer with application to historical paintings. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 112, 102779.	2.1	14
8	Steady-state growth of an interfacial crack by corrosion. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 148, 104268.	2.3	4
9	Regulation of notch sensitivity of lattice materials by strut topology. <i>International Journal of Mechanical Sciences</i> , 2021, 192, 106137.	3.6	10
10	Mode II fracture of an MMA adhesive layer: Theory versus experiment. <i>European Journal of Mechanics, A/Solids</i> , 2021, 86, 104133.	2.1	18
11	The initiation of void growth during stripping of Li electrodes in solid electrolyte cells. <i>Journal of Power Sources</i> , 2021, 488, 229437.	4.0	18
12	An assessment of a mechanism for void growth in Li anodes. <i>Extreme Mechanics Letters</i> , 2021, 46, 101307.	2.0	12
13	The mechanical and electrochemical properties of polyaniline-coated carbon nanotube mat. <i>Journal of Energy Storage</i> , 2021, 41, 102757.	3.9	8
14	The Influence of Strut Waviness on the Tensile Response of Lattice Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2021, 88, .	1.1	15
15	Perspectives for next generation lithium-ion battery cathode materials. <i>APL Materials</i> , 2021, 9, .	2.2	44
16	The crack growth resistance of an elastoplastic lattice. <i>International Journal of Solids and Structures</i> , 2020, 188-189, 233-243.	1.3	18
17	Load transfer within the bolted joint of a laminate made from ultra-high molecular weight polyethylene fibres. <i>International Journal of Solids and Structures</i> , 2020, 185-186, 182-190.	1.3	1
18	The swelling of cellulose foams due to liquid transport. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 136, 103707.	2.3	4

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19	Mechanical properties of the hollow-wall graphene gyroid lattice. <i>Acta Materialia</i> , 2020, 201, 254-265.	3.8	10
20	High fracture toughness micro-architected materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 143, 104060.	2.3	20
21	An assessment of the J-integral test for a metallic foam. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 141, 103958.	2.3	9
22	Growth rate of lithium filaments in ceramic electrolytes. <i>Acta Materialia</i> , 2020, 196, 444-455.	3.8	30
23	Dendrites as climbing dislocations in ceramic electrolytes: Initiation of growth. <i>Journal of Power Sources</i> , 2020, 456, 227989.	4.0	38
24	Mode II Fracture of an Elastic-Plastic Sandwich Layer. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	1.1	5
25	On the geometric stability of an inorganic nanowire and an organic ligand shell. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 123, 3-19.	2.3	7
26	Creep failure of honeycombs made by rapid prototyping. <i>Acta Materialia</i> , 2019, 178, 122-134.	3.8	7
27	The mechanics of solid-state nanofoaming. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190339.	1.0	4
28	Tensile fracture of an adhesive joint: the role of crack length and of material mismatch. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 130, 330-348.	2.3	13
29	The mechanical and electrical properties of direct-spun carbon nanotube mat-epoxy composites. <i>Carbon</i> , 2019, 150, 489-504.	5.4	32
30	Mechanical Properties of PMMAâ€Sepiolite Nanocellular Materials with a Bimodal Cellular Structure. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900041.	1.7	16
31	The role of defects in dictating the strength of brittle honeycombs made by rapid prototyping. <i>Acta Materialia</i> , 2019, 171, 190-200.	3.8	28
32	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.	2.1	23
33	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.	2.3	58
34	Toughening strategies in adhesive joints. <i>International Journal of Solids and Structures</i> , 2019, 158, 66-75.	1.3	38
35	Indentation of a layer on foam substrate. <i>International Journal of Mechanical Sciences</i> , 2019, 150, 379-392.	3.6	4
36	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.	2.3	15

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37	Tear resistance of a square-wave joint: Experiment versus cohesive zone model. <i>International Journal of Adhesion and Adhesives</i> , 2018, 84, 9-17.	1.4	16
38	The mechanical and electrical properties of direct-spun carbon nanotube mats. <i>Extreme Mechanics Letters</i> , 2018, 21, 65-75.	2.0	59
39	The effect of matrix shear strength on the out-of-plane compressive strength of CFRP cross-ply laminates. <i>International Journal of Solids and Structures</i> , 2018, 139-140, 79-95.	1.3	10
40	Analysis of thermal desorption of hydrogen in metallic alloys. <i>Acta Materialia</i> , 2018, 144, 777-785.	3.8	27
41	Notch sensitivity of orthotropic solids: interaction of tensile and shear damage zones. <i>International Journal of Fracture</i> , 2018, 212, 123-142.	1.1	7
42	Perforation of aluminium alloy-CFRP bilayer plates under quasi-static and impact loading. <i>International Journal of Impact Engineering</i> , 2018, 121, 106-118.	2.4	8
43	Crack Growth Resistance in Metallic Alloys: The Role of Isotropic Versus Kinematic Hardening. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018, 85, .	1.1	14
44	Compressive behavior and failure mechanisms of freestanding and composite 3D graphitic foams. <i>Acta Materialia</i> , 2018, 159, 187-196.	3.8	10
45	Deformation and failure maps for PMMA in uniaxial tension. <i>Polymer</i> , 2018, 148, 259-268.	1.8	24
46	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.	1.3	14
47	Cohesive detachment of an elastic pillar from a dissimilar substrate. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 101, 30-43.	2.3	31
48	Tensile response of elastoplastic lattices at finite strain. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 109, 307-330.	2.3	53
49	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.	2.4	18
50	Analysis of electro-permeation of hydrogen in metallic alloys. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160409.	1.6	12
51	On the Indentation Resistance of a PC Layer on PVC Foam Substrate. <i>Advanced Engineering Materials</i> , 2017, 19, 1700075.	1.6	3
52	Crack kinking at the tip of a mode I crack in an orthotropic solid. <i>International Journal of Fracture</i> , 2017, 207, 181-191.	1.1	10
53	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.	2.1	15
54	Flaw sensitivity in rate-sensitive high strength alloys: An assessment and future research directions. <i>Extreme Mechanics Letters</i> , 2017, 10, 70-77.	2.0	1

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55	The indentation response of Nickel nano double gyroid lattices. <i>Extreme Mechanics Letters</i> , 2017, 10, 15-23.	2.0	28
56	The effective non-linear properties of a composite coating and a composite sandwich layer. <i>European Journal of Mechanics, A/Solids</i> , 2016, 59, 14-23.	2.1	3
57	The tensile ductility of cellular Solids: The role of imperfections. <i>International Journal of Solids and Structures</i> , 2016, 102-103, 200-213.	1.3	33
58	Prediction of failure in notched carbon-fibre-reinforced-polymer laminates under multi-axial loading. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150273.	1.6	7
59	Numerical simulation of the edge stress singularity and the adhesion strength for compliant mushroom fibrils adhered to rigid substrates. <i>International Journal of Solids and Structures</i> , 2016, 85-86, 160-171.	1.3	70
60	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.	3.6	24
61	Failure mechanisms of a notched CFRP laminate under multi-axial loading. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 77, 56-66.	3.8	36
62	Detachment of an adhered micropillar from a dissimilar substrate. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 75, 159-183.	2.3	53
63	The compressive response of ultra-high molecular weight polyethylene fibres and composites. <i>International Journal of Solids and Structures</i> , 2015, 71, 141-155.	1.3	45
64	Strain gradient plasticity: energetic or dissipative?. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2015, 31, 465-472.	1.5	34
65	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.	3.6	57
66	Hydrogen embrittlement of a bimaterial. <i>Mechanics of Materials</i> , 2015, 80, 193-202.	1.7	14
67	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.	2.3	61
68	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.	2.3	38
69	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.	2.3	26
70	The stiffness and strength of the gyroid lattice. <i>International Journal of Solids and Structures</i> , 2014, 51, 3866-3877.	1.3	139
71	The out-of-plane compressive response of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0055.gif" overflow="scroll" \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Dyneema} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \hat{A}^{2.3} \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{composites}$ . <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 70, 200-226.	6.9	69
72	The predicted compressive strength of a pyramidal lattice made from case hardened steel tubes. <i>International Journal of Solids and Structures</i> , 2014, 51, 41-52.	1.3	11

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73	Thermal shock resistance of air plasma sprayed thermal barrier coatings. <i>Journal of the European Ceramic Society</i> , 2014, 34, 2687-2694.	2.8	51
74	The soft impact response of composite laminate beams. <i>International Journal of Impact Engineering</i> , 2013, 60, 24-36.	2.4	58
75	An analysis of competing toughening mechanisms in layered and particulate solids. <i>International Journal of Fracture</i> , 2013, 183, 241-258.	1.1	21
76	A laboratory-scale buried charge simulator. <i>International Journal of Impact Engineering</i> , 2013, 62, 210-218.	2.4	13
77	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.	2.4	166
78	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.	2.1	131
79	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.	2.3	45
80	Dynamic buckling of an inclined strut. <i>International Journal of Solids and Structures</i> , 2012, 49, 2830-2838.	1.3	29
81	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.	2.3	42
82	The soft impact of composite sandwich beams with a square-honeycomb core. <i>International Journal of Impact Engineering</i> , 2012, 48, 65-81.	2.4	54
83	Discrete element calculations of the impact of a sand column against rigid structures. <i>International Journal of Impact Engineering</i> , 2012, 45, 74-89.	2.4	27
84	Elastodynamic Erosion of Thermal Barrier Coatings. <i>Journal of the American Ceramic Society</i> , 2011, 94, s160.	1.9	4
85	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.	1.3	31
86	The microstructure and mechanical properties of ball-milled stainless steel powder: The effect of hot-pressing vs. laser sintering. <i>Acta Materialia</i> , 2011, 59, 7300-7310.	3.8	11
87	Flow of Damp Powder in a Rotating Impervious Cone. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2011, 78, .	1.1	6
88	The microstructural basis for the mechanical properties and electrical resistivity of nanocrystalline Cu-Al <sub>2</sub> O <sub>3</sub> . <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 5065-5071.	2.6	44
89	Prediction of the dynamic response of composite sandwich beams under shock loading. <i>International Journal of Impact Engineering</i> , 2010, 37, 854-864.	2.4	40
90	Underwater blast response of free-standing sandwich plates with metallic lattice cores. <i>International Journal of Impact Engineering</i> , 2010, 37, 1138-1149.	2.4	49

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91	The three-point bending of Y-frame and corrugated core sandwich beams. <i>International Journal of Mechanical Sciences</i> , 2010, 52, 485-494.	3.6	66
92	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.	4.1	26
93	The elastic-plastic indentation response of a columnar thermal barrier coating. <i>Wear</i> , 2010, 268, 443-454.	1.5	29
94	The erosion of EB-PVD thermal barrier coatings: The competition between mechanisms. <i>Wear</i> , 2010, 268, 1214-1224.	1.5	38
95	The fracture toughness of a cordierite square lattice. <i>Acta Materialia</i> , 2010, 58, 201-207.	3.8	36
96	Size effects in the torsion of thin metal wires. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2010, 18, 015009.	0.8	34
97	Size effects in the bending of thin foils. <i>International Journal of Engineering Science</i> , 2009, 47, 1251-1264.	2.7	44
98	Birefringence measurements of creep near an electrode tip in transparent PLZT. <i>Journal of the European Ceramic Society</i> , 2009, 29, 2289-2296.	2.8	20
99	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.	2.3	206
100	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.	2.3	27
101	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.	2.3	199
102	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.	2.3	15
103	The dynamic response of clamped rectangular Y-frame and corrugated core sandwich plates. <i>European Journal of Mechanics, A/Solids</i> , 2009, 28, 14-24.	2.1	64
104	Underwater blast loading of sandwich beams: Regimes of behaviour. <i>International Journal of Solids and Structures</i> , 2009, 46, 3209-3221.	1.3	47
105	Fracture of Brittle Lattice Materials: A Review. , 2009, , 799-816.		10
106	The high strain rate response of PVC foams and end-grain balsa wood. <i>Composites Part B: Engineering</i> , 2008, 39, 83-91.	5.9	129
107	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.	1.3	55
108	The dynamic response of end-clamped sandwich beams with a Y-frame or corrugated core. <i>International Journal of Impact Engineering</i> , 2008, 35, 829-844.	2.4	66

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109	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.	3.6	36
110	Elastic Boundary Layers in Two-Dimensional Isotropic Lattices. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2008, 75, .	1.1	25
111	The Imperfection Sensitivity of Isotropic Two-Dimensional Elastic Lattices. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2008, 75, .	1.1	70
112	The effect of interfaces on the plastic behavior of periodic composites. <i>Philosophical Magazine</i> , 2008, 88, 3633-3653.	0.7	0
113	Mechanisms of elastodynamic erosion of electron-beam thermal barrier coatings. <i>International Journal of Materials Research</i> , 2007, 98, 1196-1202.	0.1	8
114	Dynamic failure of clamped circular plates subjected to an underwater shock. <i>Journal of Mechanics of Materials and Structures</i> , 2007, 2, 2007-2023.	0.4	15
115	The dynamic response of composite sandwich beams to transverse impact. <i>International Journal of Solids and Structures</i> , 2007, 44, 2442-2457.	1.3	79
116	Optimal design of box-section sandwich beams in three-point bending. <i>International Journal of Solids and Structures</i> , 2007, 44, 4742-4769.	1.3	26
117	Dynamic crushing of sandwich panels with prismatic lattice cores. <i>International Journal of Solids and Structures</i> , 2007, 44, 6101-6123.	1.3	86
118	The damage tolerance of elastic-brittle, two-dimensional isotropic lattices. <i>Journal of the Mechanics and Physics of Solids</i> , 2007, 55, 562-588.	2.3	176
119	The fracture toughness of planar lattices: Imperfection sensitivity. <i>Journal of the Mechanics and Physics of Solids</i> , 2007, 55, 2538-2564.	2.3	85
120	Damage tolerance of an elastic-brittle diamond-celled honeycomb. <i>Scripta Materialia</i> , 2007, 56, 693-696.	2.6	38
121	Shear fatigue strength of a prismatic diamond sandwich core. <i>Scripta Materialia</i> , 2007, 56, 585-588.	2.6	16
122	A Systematic Approach to Process Selection in MEMS. <i>Journal of Microelectromechanical Systems</i> , 2006, 15, 1039-1050.	1.7	22
123	An underwater shock simulator. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006, 462, 1021-1041.	1.0	107
124	Modelling of fatigue crack tunneling and delamination in layered composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006, 37, 1722-1733.	3.8	29
125	The shear response of metallic square honeycombs. <i>Journal of Mechanics of Materials and Structures</i> , 2006, 1, 1281-1299.	0.4	32
126	An evaluation of higher-order plasticity theories for predicting size effects and localisation. <i>International Journal of Solids and Structures</i> , 2006, 43, 1857-1877.	1.3	78



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127	In-plane properties of composite laminates with through-thickness pin reinforcement. <i>International Journal of Solids and Structures</i> , 2006, 43, 3197-3212.	1.3	124
128	Performance of metallic honeycomb-core sandwich beams under shock loading. <i>International Journal of Solids and Structures</i> , 2006, 43, 1746-1763.	1.3	166
129	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.	1.3	194
130	The compressive and shear responses of corrugated and diamond lattice materials. <i>International Journal of Solids and Structures</i> , 2006, 43, 6220-6242.	1.3	214
131	A sintering model for thermal barrier coatings. <i>Acta Materialia</i> , 2006, 54, 1297-1306.	3.8	44
132	Compressive response of the Y-shaped sandwich core. <i>European Journal of Mechanics, A/Solids</i> , 2006, 25, 125-141.	2.1	24
133	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.	2.1	122
134	The response of clamped sandwich beams subjected to shock loading. <i>International Journal of Impact Engineering</i> , 2006, 32, 968-987.	2.4	147
135	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.	3.6	17
136	The structural performance of the periodic truss. <i>Journal of the Mechanics and Physics of Solids</i> , 2006, 54, 756-782.	2.3	234
137	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.	2.3	121
138	Fatigue crack growth in ferroelectrics under electrical loading. <i>Journal of the European Ceramic Society</i> , 2006, 26, 95-109.	2.8	58
139	Scaling laws governing the erosion and impact resistance of thermal barrier coatings. <i>Wear</i> , 2006, 260, 886-894.	1.5	58
140	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.	2.3	102
141	The use of metal foam projectiles to simulate shock loading on a structure. <i>International Journal of Impact Engineering</i> , 2005, 31, 1152-1171.	2.4	215
142	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.	3.6	59
143	Numerical simulations of crack formation from pegs in thermal barrier systems with NiCoCrAlY bond coats. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 404, 26-32.	2.6	39
144	Microarchitected cellular solids - the hunt for statically determinate periodic trusses. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2005, 85, 607-617.	0.9	44

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145	Compressive strength of composite laminates with terminated internal plies. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005, 36, 798-805.	3.8	30
146	Material selection in sandwich beam construction. <i>Scripta Materialia</i> , 2004, 50, 1335-1339.	2.6	79
147	Crack tunneling and plane-strain delamination in layered solids. <i>International Journal of Fracture</i> , 2004, 125, 1-32.	1.1	39
148	Collapse of clamped and simply supported composite sandwich beams in three-point bending. <i>Composites Part B: Engineering</i> , 2004, 35, 523-534.	5.9	80
149	Mechanisms governing the high temperature erosion of thermal barrier coatings. <i>Wear</i> , 2004, 256, 735-746.	1.5	112
150	The Collapse Response of Sandwich Beams with Aluminium Face Sheets and a Metal Foam Core. <i>Advanced Engineering Materials</i> , 2004, 6, 440-443.	1.6	13
151	The out-of-plane compressive behavior of metallic honeycombs. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 380, 272-280.	2.6	206
152	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.	3.6	211
153	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.	3.6	175
154	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.	2.3	42
155	The out-of-plane compressive behaviour of woven-core sandwich plates. <i>European Journal of Mechanics, A/Solids</i> , 2004, 23, 411-421.	2.1	84
156	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.	1.0	147
157	Mechanisms of crack bridging by composite and metallic rods. <i>Composites Part A: Applied Science and Manufacturing</i> , 2004, 35, 1325-1336.	3.8	139
158	The role of geometrically necessary dislocations in giving material strengthening. <i>Scripta Materialia</i> , 2003, 48, 179-183.	2.6	117
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