

Martin L Dunn

List of Publications by Year in descending order

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189
papers

19,351
citations

12303

69
h-index

11288

136
g-index

191
all docs

191
docs citations

191
times ranked

13644
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of interfaces to promote the bonding strength between dissimilar materials. <i>Journal of Manufacturing Processes</i> , 2022, 76, 786-795.	2.8	6
2	3D printing of continuous fiber-reinforced thermoset composites. <i>Additive Manufacturing</i> , 2021, 40, 101921.	1.7	27
3	Optimal Soft Composites for Under-Actuated Soft Robots. <i>Advanced Materials Technologies</i> , 2021, 6, 2100361.	3.0	10
4	The status, barriers, challenges, and future in design for 4D printing. <i>Materials and Design</i> , 2021, 212, 110193.	3.3	55
5	Influence of treating parameters on thermomechanical properties of recycled epoxy-acid vitrimers. <i>Soft Matter</i> , 2020, 16, 1668-1677.	1.2	24
6	Optimal design and manufacture of variable stiffness laminated continuous fiber reinforced composites. <i>Scientific Reports</i> , 2020, 10, 16507.	1.6	39
7	Influences of processing conditions on mechanical properties of recycled epoxy-anhydride vitrimers. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49246.	1.3	23
8	Multiscale optimal design and fabrication of laminated composites. <i>Composite Structures</i> , 2019, 228, 111366.	3.1	16
9	Machine-learning based design of active composite structures for 4D printing. <i>Smart Materials and Structures</i> , 2019, 28, 065005.	1.8	87
10	Chemomechanics of dual-stage reprocessable thermosets. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 126, 168-186.	2.3	19
11	Recycling of vitrimer blends with tunable thermomechanical properties. <i>RSC Advances</i> , 2019, 9, 5431-5437.	1.7	31
12	Isogeometric shape optimization of nonlinear, curved 3D beams and beam structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 345, 26-51.	3.4	46
13	Combined Level-Set-XFEM-Density Topology Optimization of Four-Dimensional Printed Structures Undergoing Large Deformation. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2019, 141, .	1.7	40
14	Advances in 4D Printing: Materials and Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1805290.	7.8	633
15	4D rods: 3D structures via programmable 1D composite rods. <i>Materials and Design</i> , 2018, 137, 256-265.	3.3	110
16	Isogeometric collocation for nonlinear dynamic analysis of Cosserat rods with frictional contact. <i>Nonlinear Dynamics</i> , 2018, 91, 1213-1227.	2.7	20
17	Simultaneous Digital Design and Additive Manufacture of Structures and Materials. <i>Scientific Reports</i> , 2018, 8, 15560.	1.6	29
18	Fully isogeometric modeling and analysis of nonlinear 3D beams with spatially varying geometric and material parameters. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 342, 95-115.	3.4	16

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19	Reprocessable thermosets for sustainable three-dimensional printing. Nature Communications, 2018, 9, 1831.	5.8	249
20	Nonlinear Multi-Scale Modelling, Simulation and Validation of 3D Knitted Textiles. Applied Composite Materials, 2018, 25, 797-810.	1.3	25
21	Thermal cure effects on electromechanical properties of conductive wires by direct ink write for 4D printing and soft machines. Smart Materials and Structures, 2017, 26, 045008.	1.8	55
22	Direct 4D printing via active composite materials. Science Advances, 2017, 3, e1602890.	4.7	455
23	An isogeometric collocation method for frictionless contact of Cosserat rods. Computer Methods in Applied Mechanics and Engineering, 2017, 321, 361-382.	3.4	30
24	Recyclable 3D printing of vitrimer epoxy. Materials Horizons, 2017, 4, 598-607.	6.4	339
25	Adhesion, Stiffness, and Instability in Atomically Thin MoS ₂ Bubbles. Nano Letters, 2017, 17, 5329-5334.	4.5	92
26	Shape forming by thermal expansion mismatch and shape memory locking in polymer/elastomer laminates. Smart Materials and Structures, 2017, 26, 105027.	1.8	39
27	3D printed active origami with complicated folding patterns. International Journal of Precision Engineering and Manufacturing - Green Technology, 2017, 4, 281-289.	2.7	48
28	Isogeometric collocation methods for Cosserat rods and rod structures. Computer Methods in Applied Mechanics and Engineering, 2017, 316, 100-122.	3.4	75
29	Optimal Design and Manufacture of Active Rod Structures with Spatially Variable Materials. 3D Printing and Additive Manufacturing, 2016, 3, 204-215.	1.4	27
30	A Computational Model for Surface Welding in Covalent Adaptable Networks Using Finite-Element Analysis. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	1.1	26
31	Adhesion mechanics of graphene on textured substrates. International Journal of Solids and Structures, 2016, 97-98, 56-74.	1.3	10
32	Carbon Fiber Reinforced Thermoset Composite with Near 100% Recyclability. Advanced Functional Materials, 2016, 26, 6098-6106.	7.8	349
33	Solvent Assisted Pressure-Free Surface Welding and Reprocessing of Malleable Epoxy Polymers. Macromolecules, 2016, 49, 5527-5537.	2.2	158
34	Thermomechanics of printed anisotropic shape memory elastomeric composites. International Journal of Solids and Structures, 2016, 102-103, 186-199.	1.3	28
35	Multi-shape active composites by 3D printing of digital shape memory polymers. Scientific Reports, 2016, 6, 24224.	1.6	267
36	Multimaterial 4D Printing with Tailorable Shape Memory Polymers. Scientific Reports, 2016, 6, 31110.	1.6	751

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37	3D Printed Reversible Shape Changing Components with Stimuli Responsive Materials. Scientific Reports, 2016, 6, 24761.	1.6	253
38	Interfacial welding of dynamic covalent network polymers. Journal of the Mechanics and Physics of Solids, 2016, 94, 1-17.	2.3	107
39	Sequential Self-Folding Structures by 3D Printed Digital Shape Memory Polymers. Scientific Reports, 2015, 5, 13616.	1.6	391
40	Level Set Topology Optimization of Printed Active Composites. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	1.7	74
41	Controlled Sequential Shape Changing Components by 3D Printing of Shape Memory Polymer Multimaterials. Procedia IUTAM, 2015, 12, 193-203.	1.2	187
42	Digital manufacture of shape changing components. Extreme Mechanics Letters, 2015, 4, 9-17.	2.0	62
43	Active origami by 4D printing. Smart Materials and Structures, 2014, 23, 094007.	1.8	510
44	Channel cracks in atomic-layer and molecular-layer deposited multilayer thin film coatings. Journal of Applied Physics, 2014, 115, .	1.1	11
45	Reprocessing and recycling of thermosetting polymers based on bond exchange reactions. RSC Advances, 2014, 4, 10108-10117.	1.7	182
46	A design optimization methodology for Li+ batteries. Journal of Power Sources, 2014, 253, 239-250.	4.0	64
47	Large Arrays and Properties of 3-terminal Graphene Nanoelectromechanical Switches. Advanced Materials, 2014, 26, 1571-1576.	11.1	55
48	Influence of stoichiometry on the glass transition and bond exchange reactions in epoxy thermoset polymers. RSC Advances, 2014, 4, 48682-48690.	1.7	128
49	A finite deformation thermomechanical constitutive model for triple shape polymeric composites based on dual thermal transitions. International Journal of Solids and Structures, 2014, 51, 2777-2790.	1.3	50
50	A photoviscoplastic model for photoactivated covalent adaptive networks. Journal of the Mechanics and Physics of Solids, 2014, 70, 84-103.	2.3	48
51	Mechanisms of triple-shape polymeric composites due to dual thermal transitions. Soft Matter, 2013, 9, 2212.	1.2	69
52	Graphene Blisters with Switchable Shapes Controlled by Pressure and Adhesion. Nano Letters, 2013, 13, 6216-6221.	4.5	70
53	Active materials by four-dimension printing. Applied Physics Letters, 2013, 103, 131901.	1.5	566
54	Thermodynamics and mechanics of photochemically reacting polymers. Journal of the Mechanics and Physics of Solids, 2013, 61, 2212-2239.	2.3	42

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55	Bending Rigidity and Gaussian Bending Stiffness of Single-Layered Graphene. Nano Letters, 2013, 13, 26-30.	4.5	299
56	Modeling the mechanics of covalently adaptable polymer networks with temperature-dependent bond exchange reactions. Soft Matter, 2013, 9, 4083.	1.2	93
57	Observation of Pull-In Instability in Graphene Membranes under Interfacial Forces. Nano Letters, 2013, 13, 2309-2313.	4.5	40
58	Mechanics of Adhered, Pressurized Graphene Blisters. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	1.1	87
59	Thermomechanical behavior of a two-way shape memory composite actuator. Smart Materials and Structures, 2013, 22, 055009.	1.8	60
60	Adhesion mechanics of graphene membranes. Solid State Communications, 2012, 152, 1359-1364.	0.9	119
61	Photo-origami—Bending and folding polymers with light. Applied Physics Letters, 2012, 100, .	1.5	183
62	Multiscale design optimization of lithium ion batteries using adjoint sensitivity analysis. International Journal for Numerical Methods in Engineering, 2012, 92, 475-494.	1.5	52
63	Thermomechanical behavior of shape memory elastomeric composites. Journal of the Mechanics and Physics of Solids, 2012, 60, 67-83.	2.3	91
64	Van der Waals and Capillary Adhesion of Polycrystalline Silicon Micromachined Surfaces. Nanoscience and Technology, 2012, , 363-393.	1.5	2
65	Two-way reversible shape memory effects in a free-standing polymer composite. Smart Materials and Structures, 2011, 20, 065010.	1.8	128
66	Ultrastrong adhesion of graphene membranes. Nature Nanotechnology, 2011, 6, 543-546.	15.6	904
67	Effects of electrode particle morphology on stress generation in silicon during lithium insertion. Journal of Power Sources, 2011, 196, 9672-9681.	4.0	49
68	Nanostructured silicon electrodes for solid-state 3-d rechargeable lithium batteries. Sensors and Actuators A: Physical, 2011, 167, 139-145.	2.0	15
69	Microstructure Study of Electrochemically Driven Li _x Si. Advanced Energy Materials, 2011, 1, 1199-1204.	10.2	61
70	Photo-induced deformation of active polymer films: Single spot irradiation. International Journal of Solids and Structures, 2011, 48, 2089-2101.	1.3	38
71	Mechanics of soft active materials with phase evolution. International Journal of Plasticity, 2010, 26, 603-616.	4.1	69
72	Thermo-mechanical properties of alumina films created using the atomic layer deposition technique. Sensors and Actuators A: Physical, 2010, 164, 58-67.	2.0	83

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73	Stress generation in silicon particles during lithium insertion. Applied Physics Letters, 2010, 97, .	1.5	128
74	Switchable phononic wave filtering, guiding, harvesting, and actuating in polarization-patterned piezoelectric solids. Applied Physics Letters, 2010, 96, .	1.5	66
75	Light-induced stress relief to improve flaw tolerance in network polymers. Journal of Applied Physics, 2010, 107, .	1.1	16
76	Constitutive Modeling of Shape Memory Effects in Semicrystalline Polymers With Stretch Induced Crystallization. Journal of Engineering Materials and Technology, Transactions of the ASME, 2010, 132, .	0.8	96
77	Analysis of Piezoelectric Energy Harvesting Systems with Non-linear Circuits Using the Harmonic Balance Method. Journal of Intelligent Material Systems and Structures, 2010, 21, 1383-1396.	1.4	23
78	van der Waals adhesion of graphene membranes. Journal of Applied Physics, 2010, 107, .	1.1	69
79	Strain effects on the thermal conductivity of nanostructures. Physical Review B, 2010, 81, .	1.1	375
80	Piezoelectric constants for ZnO calculated using classical polarizable core-shell potentials. Nanotechnology, 2010, 21, 445707.	1.3	43
81	Thermomechanical Behavior and Modeling Approaches. , 2010, , 65-90.		1
82	Predicting corner crack fatigue propagation from cold worked holes. Engineering Fracture Mechanics, 2009, 76, 2074-2090.	2.0	19
83	Fluorescent tags to visualize defects in Al ₂ O ₃ thin films grown using atomic layer deposition. Thin Solid Films, 2009, 517, 6794-6797.	0.8	28
84	Photomechanics of blanket and patterned liquid crystal elastomer films. Mechanics of Materials, 2009, 41, 1083-1089.	1.7	46
85	Photomechanics of light-activated polymers. Journal of the Mechanics and Physics of Solids, 2009, 57, 1103-1121.	2.3	138
86	Numerical modeling of electrochemical-mechanical interactions in lithium polymer batteries. Computers and Structures, 2009, 87, 1567-1579.	2.4	120
87	Patterned bilayer plate microstructures subjected to thermal loading: Deformation and stresses. International Journal of Solids and Structures, 2009, 46, 125-134.	1.3	2
88	Thermomechanical properties of aluminum alkoxide (alucone) films created using molecular layer deposition. Acta Materialia, 2009, 57, 5083-5092.	3.8	41
89	The mechanical robustness of atomic-layer- and molecular-layer-deposited coatings on polymer substrates. Journal of Applied Physics, 2009, 105, .	1.1	100
90	Design of Piezoelectric Energy Harvesting Systems: A Topology Optimization Approach Based on Multilayer Plates and Shells. Journal of Intelligent Material Systems and Structures, 2009, 20, 1923-1939.	1.4	187

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91	Constitutive model for photo-mechanical behaviors of photo-induced shape memory polymers. Proceedings of SPIE, 2009, , .	0.8	1
92	Large-scale parallel topology optimization using a dual-primal substructuring solver. Structural and Multidisciplinary Optimization, 2008, 36, 329-345.	1.7	60
93	Optimal synthesis of tunable elastic wave-guides. Computer Methods in Applied Mechanics and Engineering, 2008, 198, 292-301.	3.4	16
94	Capillary adhesion model for contacting micromachined surfaces. Scripta Materialia, 2008, 59, 916-920.	2.6	43
95	Optimal Design of Piezoelectric Energy Harvesters Based on Multilayer Plates and Shells. , 2008, , .		2
96	Photomechanics of Light-Activated Shape Memory Polymers. , 2008, , .		2
97	12.3: Defect Visualization of Atomic Layer Deposition Enabled Polymer Barriers Using Fluorescent Tags. Digest of Technical Papers SID International Symposium, 2008, 39, 143.	0.1	0
98	Application of A Microstructural Constitutive Model of the Pulmonary Artery to Patient-Specific Studies: Validation and Effect of Orthotropy. Journal of Biomechanical Engineering, 2007, 129, 193-201.	0.6	18
99	Photomechanics of mono- and polydomain liquid crystal elastomer films. Journal of Applied Physics, 2007, 102, .	1.1	86
100	Thermomechanical indentation of shape memory polymers. , 2007, , .		2
101	Growth of Silicon Carbide Nanoparticles Using Tetraethylorthosilicate for Microelectromechanical Systems. Electrochemical and Solid-State Letters, 2007, 10, H27.	2.2	9
102	Elastic Memory Composite Microbuckling Mechanics: Closed-Form Model with Empirical Correlation. , 2007, , .		18
103	Rough surface adhesion in the presence of capillary condensation. Applied Physics Letters, 2007, 90, 163104.	1.5	59
104	Adhesion of arbitrary-shaped thin-film microstructures. Microelectronics Reliability, 2007, 47, 2014-2024.	0.9	2
105	Design of phononic materials/structures for surface wave devices using topology optimization. Structural and Multidisciplinary Optimization, 2007, 34, 111-121.	1.7	91
106	Thermo- and Electromechanical Behavior of Thin-Film Micro and Nanostructures. , 2007, , 1703-1748.		0
107	Design of patterned multilayer films with eigenstrains by topology optimization. International Journal of Solids and Structures, 2006, 43, 1832-1853.	1.3	20
108	Atomistic simulations of the yielding of gold nanowires. Acta Materialia, 2006, 54, 643-653.	3.8	242

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109	Thermomechanics of shape memory polymers: Uniaxial experiments and constitutive modeling. <i>International Journal of Plasticity</i> , 2006, 22, 279-313.	4.1	650
110	The effect of nanoparticles on rough surface adhesion. <i>Journal of Applied Physics</i> , 2006, 99, 104304.	1.1	36
111	Van der Waals and Capillary Adhesion of Microelectromechanical Systems. , 2006, , .		2
112	The role of van der Waals forces in adhesion of micromachined surfaces. <i>Nature Materials</i> , 2005, 4, 629-634.	13.3	501
113	A Microstructural Hyperelastic Model of Pulmonary Arteries Under Normo- and Hypertensive Conditions. <i>Annals of Biomedical Engineering</i> , 2005, 33, 1042-1052.	1.3	43
114	Acoustic-phonon dispersion in nanowires. <i>Journal of Applied Physics</i> , 2005, 97, 074313.	1.1	11
115	Tetragonal Phase Transformation in Gold Nanowires. <i>Journal of Engineering Materials and Technology</i> , <i>Transactions of the ASME</i> , 2005, 127, 417-422.	0.8	44
116	Design of Nanostructured Phononic Materials. , 2005, , .		4
117	Suppression of inelastic deformation of nanocoated thin film microstructures. <i>Journal of Applied Physics</i> , 2004, 95, 8216-8225.	1.1	17
118	Stability and Structural Transition of Gold Nanowires under Their Own Surface Stresses. <i>Materials Research Society Symposia Proceedings</i> , 2004, 854, U5.7.1.	0.1	0
119	Thermomechanics of the Shape Memory Effect in Polymers. <i>Materials Research Society Symposia Proceedings</i> , 2004, 855, 135.	0.1	2
120	The Strength of Gold Nanowires. <i>Nano Letters</i> , 2004, 4, 2431-2436.	4.5	280
121	Yield Strength Asymmetry in Metal Nanowires. <i>Nano Letters</i> , 2004, 4, 1863-1867.	4.5	207
122	Thermomechanics of shape memory polymer nanocomposites. <i>Mechanics of Materials</i> , 2004, 36, 929-940.	1.7	266
123	Thermal cycling response of layered gold/polysilicon MEMS structures. <i>Mechanics of Materials</i> , 2004, 36, 45-55.	1.7	25
124	Geometric and material nonlinearity during the deformation of micron-scale thin-film bilayers subject to thermal loading. <i>Journal of the Mechanics and Physics of Solids</i> , 2004, 52, 2101-2126.	2.3	32
125	Atomistic simulation of the structure and elastic properties of gold nanowires. <i>Journal of the Mechanics and Physics of Solids</i> , 2004, 52, 1935-1962.	2.3	300
126	Creep of thin film Au on bimaterial Au/Si microcantilevers. <i>Acta Materialia</i> , 2004, 52, 2133-2146.	3.8	32

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127	Surface stress driven reorientation of gold nanowires. Physical Review B, 2004, 70, .	1.1	151
128	Internal stress storage in shape memory polymer nanocomposites. Applied Physics Letters, 2004, 85, 290-292.	1.5	119
129	Thermo- and Electromechanics of Thin-Film Microstructures. , 2004, , 1039-1081.		0
130	Thermo- and Electromechanics of Thin-Film Microstructures. , 2004, , 1039-1081.		0
131	Processing and characterization of silicon carbon-nitride ceramics: application of electrical properties towards MEMS thermal actuators. Sensors and Actuators A: Physical, 2003, 103, 171-181.	2.0	70
132	Design of bimorph piezo-composite actuators with functionally graded microstructure. Sensors and Actuators A: Physical, 2003, 107, 248-260.	2.0	104
133	Surface-stress-induced phase transformation in metal nanowires. Nature Materials, 2003, 2, 656-660.	13.3	477
134	Thermomechanical recovery couplings of shape memory polymers in flexure. Smart Materials and Structures, 2003, 12, 947-954.	1.8	106
135	Die Cracking at Solder (In60-Pb40) Joints on Brittle (GaAs) Chips: Fracture Correlation Using Critical Bimaterial Interface Corner Stress Intensities. Journal of Electronic Packaging, Transactions of the ASME, 2003, 125, 369-377.	1.2	1
136	Thermomechanical response of bare and Al ₂ O ₃ -nanocoated Au/Si bilayer beams for microelectromechanical systems. Journal of Materials Research, 2003, 18, 1575-1587.	1.2	13
137	Guided Acoustic Phonon Modes in Layered Anisotropic Nanowires. , 2003, , 83.		0
138	Micro and Macro Deformation of Single Crystal NiTi. Journal of Engineering Materials and Technology, Transactions of the ASME, 2002, 124, 238-245.	0.8	57
139	Suppression of Stress Relaxation in MEMS Multilayer Film Microstructures by Use of ALD Nanocoatings. , 2002, , 179.		1
140	<title>Vertical electrostatic actuator with extended digital range via tailored topology</title>. , 2002, 4700, 147.		6
141	Deformation and structural stability of layered plate microstructures subjected to thermal loading. Journal of Microelectromechanical Systems, 2002, 11, 372-384.	1.7	63
142	Comments on a recent infinitesimal-deformation approach to martensite crystallography. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 203-203.	1.1	3
143	Shape memory polymer nanocomposites. Acta Materialia, 2002, 50, 5115-5126.	3.8	388
144	Fabrication of SiCN MEMS by photopolymerization of pre-ceramic polymer. Sensors and Actuators A: Physical, 2002, 95, 120-134.	2.0	172

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145	Application of microforging to SiCN MEMS fabrication. <i>Sensors and Actuators A: Physical</i> , 2002, 95, 143-151.	2.0	66
146	Application of bimaterial interface corner failure mechanics to silicon/glass anodic bonds. <i>Journal of the Mechanics and Physics of Solids</i> , 2002, 50, 405-433.	2.3	59
147	Electroelastic moduli of piezoelectric polycrystals with bulk and film textures. , 2001, 4333, 83.		0
148	Variational bounds for the effective moduli of heterogeneous piezoelectric solids. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2001, 81, 903-926.	0.8	58
149	Viscoelectroelastic behavior of heterogeneous piezoelectric solids. <i>Journal of Applied Physics</i> , 2001, 89, 2893-2903.	1.1	33
150	<title>Thermally induced change in deformation of multimorph MEMS structures</title>. , 2001, , .		7
151	Fabrication of SiCN ceramic MEMS using injectable polymer-precursor technique. <i>Sensors and Actuators A: Physical</i> , 2001, 89, 64-70.	2.0	143
152	Title is missing!. <i>International Journal of Fracture</i> , 2001, 110, 101-121.	1.1	19
153	Fracture initiation at three-dimensional bimaterial interface corners. <i>Journal of the Mechanics and Physics of Solids</i> , 2001, 49, 609-634.	2.3	57
154	Variational bounds for the effective moduli of heterogeneous piezoelectric solids. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2001, 81, 903-926.	0.8	16
155	Initiation toughness of silicon/glass anodic bonds. <i>Acta Materialia</i> , 2000, 48, 735-744.	3.8	46
156	Micromechanically-based acoustic characterization of the fiber orientation distribution function of morphologically textured short-fiber composites: prediction of thermomechanical and physical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 285, 56-61.	2.6	11
157	On approximating guided waves in plates with thin anisotropic coatings by means of effective boundary conditions. <i>Journal of the Acoustical Society of America</i> , 2000, 108, 924.	0.5	50
158	On ultrasonic guided waves in a thin anisotropic layer lying between two isotropic layers. <i>Journal of the Acoustical Society of America</i> , 2000, 108, 2005-2011.	0.5	30
159	Elastic properties of a unidirectional SiCf/Ti composite: Acoustic-resonance measurements and micromechanics predictions. <i>Journal of Applied Physics</i> , 2000, 87, 2769-2774.	1.1	21
160	Thermoelectroelastic moduli of textured piezoelectric polycrystals: Exact solutions and bounds for film textures. <i>Journal of Applied Physics</i> , 1999, 86, 4626-4634.	1.1	32
161	Stress intensities at interface corners in anisotropic bimaterials. <i>Engineering Fracture Mechanics</i> , 1999, 62, 555-576.	2.0	80
162	Thermal expansion of morphologically textured short-fiber composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1999, 30, 203-212.	1.1	10

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163	Elastic moduli, strength, and fracture initiation at sharp notches in etched single crystal silicon microstructures. <i>Journal of Applied Physics</i> , 1999, 85, 3519-3534.	1.1	85
164	Anisotropic coupled-field inclusion and inhomogeneity problems. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1998, 77, 1341-1350.	0.8	159
165	Micromechanics of Magnetoelastic Composite Materials: Average Fields and Effective Behavior. <i>Journal of Intelligent Material Systems and Structures</i> , 1998, 9, 404-416.	1.4	328
166	Fracture initiation at sharp notches in single crystal silicon. <i>Journal of Applied Physics</i> , 1998, 83, 3574-3582.	1.1	32
167	One-Dimensional Composite Micromechanics. <i>International Journal of Mechanical Engineering Education</i> , 1998, 26, 38-50.	0.6	4
168	Acoustic Characterization of Morphologically Textured Short-Fiber Composites: Estimation of Physical and Mechanical Properties. , 1998, , 359-364.		1
169	Fracture initiation at sharp notches under mode I, mode II, and mild mixed mode loading. <i>International Journal of Fracture</i> , 1997, 84, 367-381.	1.1	116
170	Inclusions and inhomogeneities in transversely isotropic piezoelectric solids. <i>International Journal of Solids and Structures</i> , 1997, 34, 3571-3582.	1.3	143
171	Fracture initiation at sharp notches: Correlation using critical stress intensities. <i>International Journal of Solids and Structures</i> , 1997, 34, 3873-3883.	1.3	198
172	Green's functions for transversely isotropic piezoelectric solids. <i>International Journal of Solids and Structures</i> , 1996, 33, 4571-4581.	1.3	125
173	Elastic constants of textured short-fiber composites. <i>Journal of the Mechanics and Physics of Solids</i> , 1996, 44, 1509-1541.	2.3	57
174	Estimation of the orientation distribution of short-fiber composites using ultrasonic velocities. <i>Journal of the Acoustical Society of America</i> , 1996, 99, 283-291.	0.5	13
175	Elastic Properties of Particle-Occlusion Composites: Measurements and Modeling. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1995, 117, 402-407.	0.8	1
176	Experimental Study of the Fracture Toughness of a Ceramic/Ceramic-Matrix Composite Sandwich Structure. <i>Journal of the American Ceramic Society</i> , 1995, 78, 1633-1639.	1.9	3
177	Viscoelastic damping of particle and fiber reinforced composite materials. <i>Journal of the Acoustical Society of America</i> , 1995, 98, 3360-3374.	0.5	9
178	Thermal expansion of textured polycrystalline aggregates. <i>Journal of Applied Physics</i> , 1995, 78, 1583-1588.	1.1	7
179	A Theoretical Framework for the Analysis of Thermoelastic Heterogeneous Media with Applications. <i>Journal of Intelligent Material Systems and Structures</i> , 1995, 6, 255-265.	1.4	16
180	Effects of grain shape anisotropy, porosity, and microcracks on the elastic and dielectric constants of polycrystalline piezoelectric ceramics. <i>Journal of Applied Physics</i> , 1995, 78, 1533-1541.	1.1	63

#	ARTICLE	IF	CITATIONS
181	Poisson's ratio of porous and microcracked solids: Theory and application to oxide superconductors. <i>Journal of Materials Research</i> , 1995, 10, 2715-2722.	1.2	71
182	Electroelastic Green's functions for transversely isotropic piezoelectric media and their application to the solution of inclusion and inhomogeneity problems. <i>International Journal of Engineering Science</i> , 1994, 32, 119-131.	2.7	169
183	The effects of crack face boundary conditions on the fracture mechanics of piezoelectric solids. <i>Engineering Fracture Mechanics</i> , 1994, 48, 25-39.	2.0	257
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