

Martin L Dunn

List of Publications by Year in descending order

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189
papers

19,351
citations

12330

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11308

136
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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. | 5.9 | 6 |
| 2 | 3D printing of continuous fiber-reinforced thermoset composites. <i>Additive Manufacturing</i> , 2021, 40, 101921. | 3.0 | 27 |
| 3 | Optimal Soft Composites for Under-Actuated Soft Robots. <i>Advanced Materials Technologies</i> , 2021, 6, 2100361. | 5.8 | 10 |
| 4 | The status, barriers, challenges, and future in design for 4D printing. <i>Materials and Design</i> , 2021, 212, 110193. | 7.0 | 55 |
| 5 | Influence of treating parameters on thermomechanical properties of recycled epoxy-acid vitrimers. <i>Soft Matter</i> , 2020, 16, 1668-1677. | 2.7 | 24 |
| 6 | Optimal design and manufacture of variable stiffness laminated continuous fiber reinforced composites. <i>Scientific Reports</i> , 2020, 10, 16507. | 3.3 | 39 |
| 7 | Influences of processing conditions on mechanical properties of recycled epoxy-anhydride vitrimers. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49246. | 2.6 | 23 |
| 8 | Multiscale optimal design and fabrication of laminated composites. <i>Composite Structures</i> , 2019, 228, 111366. | 5.8 | 16 |
| 9 | Machine-learning based design of active composite structures for 4D printing. <i>Smart Materials and Structures</i> , 2019, 28, 065005. | 3.5 | 87 |
| 10 | Chemomechanics of dual-stage reprocessable thermosets. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 126, 168-186. | 4.8 | 19 |
| 11 | Recycling of vitrimer blends with tunable thermomechanical properties. <i>RSC Advances</i> , 2019, 9, 5431-5437. | 3.6 | 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. | 6.6 | 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, . | 2.9 | 40 |
| 14 | Advances in 4D Printing: Materials and Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1805290. | 14.9 | 633 |
| 15 | 4D rods: 3D structures via programmable 1D composite rods. <i>Materials and Design</i> , 2018, 137, 256-265. | 7.0 | 110 |
| 16 | Isogeometric collocation for nonlinear dynamic analysis of Cosserat rods with frictional contact. <i>Nonlinear Dynamics</i> , 2018, 91, 1213-1227. | 5.2 | 20 |
| 17 | Simultaneous Digital Design and Additive Manufacture of Structures and Materials. <i>Scientific Reports</i> , 2018, 8, 15560. | 3.3 | 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. | 6.6 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Reprocessable thermosets for sustainable three-dimensional printing. Nature Communications, 2018, 9, 1831. | 12.8 | 249 |
| 20 | Nonlinear Multi-Scale Modelling, Simulation and Validation of 3D Knitted Textiles. Applied Composite Materials, 2018, 25, 797-810. | 2.5 | 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. | 3.5 | 55 |
| 22 | Direct 4D printing via active composite materials. Science Advances, 2017, 3, e1602890. | 10.3 | 455 |
| 23 | An isogeometric collocation method for frictionless contact of Cosserat rods. Computer Methods in Applied Mechanics and Engineering, 2017, 321, 361-382. | 6.6 | 30 |
| 24 | Recyclable 3D printing of vitrimer epoxy. Materials Horizons, 2017, 4, 598-607. | 12.2 | 339 |
| 25 | Adhesion, Stiffness, and Instability in Atomically Thin MoS ₂ Bubbles. Nano Letters, 2017, 17, 5329-5334. | 9.1 | 92 |
| 26 | Shape forming by thermal expansion mismatch and shape memory locking in polymer/elastomer laminates. Smart Materials and Structures, 2017, 26, 105027. | 3.5 | 39 |
| 27 | 3D printed active origami with complicated folding patterns. International Journal of Precision Engineering and Manufacturing - Green Technology, 2017, 4, 281-289. | 4.9 | 48 |
| 28 | Isogeometric collocation methods for Cosserat rods and rod structures. Computer Methods in Applied Mechanics and Engineering, 2017, 316, 100-122. | 6.6 | 75 |
| 29 | Optimal Design and Manufacture of Active Rod Structures with Spatially Variable Materials. 3D Printing and Additive Manufacturing, 2016, 3, 204-215. | 2.9 | 27 |
| 30 | A Computational Model for Surface Welding in Covalent Adaptable Networks Using Finite-Element Analysis. Journal of Applied Mechanics, Transactions ASME, 2016, 83, . | 2.2 | 26 |
| 31 | Adhesion mechanics of graphene on textured substrates. International Journal of Solids and Structures, 2016, 97-98, 56-74. | 2.7 | 10 |
| 32 | Carbon Fiber Reinforced Thermoset Composite with Near 100% Recyclability. Advanced Functional Materials, 2016, 26, 6098-6106. | 14.9 | 349 |
| 33 | Solvent Assisted Pressure-Free Surface Welding and Reprocessing of Malleable Epoxy Polymers. Macromolecules, 2016, 49, 5527-5537. | 4.8 | 158 |
| 34 | Thermomechanics of printed anisotropic shape memory elastomeric composites. International Journal of Solids and Structures, 2016, 102-103, 186-199. | 2.7 | 28 |
| 35 | Multi-shape active composites by 3D printing of digital shape memory polymers. Scientific Reports, 2016, 6, 24224. | 3.3 | 267 |
| 36 | Multimaterial 4D Printing with Tailorable Shape Memory Polymers. Scientific Reports, 2016, 6, 31110. | 3.3 | 751 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | 3D Printed Reversible Shape Changing Components with Stimuli Responsive Materials. Scientific Reports, 2016, 6, 24761. | 3.3 | 253 |
| 38 | Interfacial welding of dynamic covalent network polymers. Journal of the Mechanics and Physics of Solids, 2016, 94, 1-17. | 4.8 | 107 |
| 39 | Sequential Self-Folding Structures by 3D Printed Digital Shape Memory Polymers. Scientific Reports, 2015, 5, 13616. | 3.3 | 391 |
| 40 | Level Set Topology Optimization of Printed Active Composites. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, . | 2.9 | 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. | 4.1 | 62 |
| 43 | Active origami by 4D printing. Smart Materials and Structures, 2014, 23, 094007. | 3.5 | 510 |
| 44 | Channel cracks in atomic-layer and molecular-layer deposited multilayer thin film coatings. Journal of Applied Physics, 2014, 115, . | 2.5 | 11 |
| 45 | Reprocessing and recycling of thermosetting polymers based on bond exchange reactions. RSC Advances, 2014, 4, 10108-10117. | 3.6 | 182 |
| 46 | A design optimization methodology for Li+ batteries. Journal of Power Sources, 2014, 253, 239-250. | 7.8 | 64 |
| 47 | Large Arrays and Properties of 3-terminal Graphene Nanoelectromechanical Switches. Advanced Materials, 2014, 26, 1571-1576. | 21.0 | 55 |
| 48 | Influence of stoichiometry on the glass transition and bond exchange reactions in epoxy thermoset polymers. RSC Advances, 2014, 4, 48682-48690. | 3.6 | 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. | 2.7 | 50 |
| 50 | A photoviscoplastic model for photoactivated covalent adaptive networks. Journal of the Mechanics and Physics of Solids, 2014, 70, 84-103. | 4.8 | 48 |
| 51 | Mechanisms of triple-shape polymeric composites due to dual thermal transitions. Soft Matter, 2013, 9, 2212. | 2.7 | 69 |
| 52 | Graphene Blisters with Switchable Shapes Controlled by Pressure and Adhesion. Nano Letters, 2013, 13, 6216-6221. | 9.1 | 70 |
| 53 | Active materials by four-dimension printing. Applied Physics Letters, 2013, 103, 131901. | 3.3 | 566 |
| 54 | Thermodynamics and mechanics of photochemically reacting polymers. Journal of the Mechanics and Physics of Solids, 2013, 61, 2212-2239. | 4.8 | 42 |

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|----|--|------|-----------|
| 55 | Bending Rigidity and Gaussian Bending Stiffness of Single-Layered Graphene. Nano Letters, 2013, 13, 26-30. | 9.1 | 299 |
| 56 | Modeling the mechanics of covalently adaptable polymer networks with temperature-dependent bond exchange reactions. Soft Matter, 2013, 9, 4083. | 2.7 | 93 |
| 57 | Observation of Pull-In Instability in Graphene Membranes under Interfacial Forces. Nano Letters, 2013, 13, 2309-2313. | 9.1 | 40 |
| 58 | Mechanics of Adhered, Pressurized Graphene Blisters. Journal of Applied Mechanics, Transactions ASME, 2013, 80, . | 2.2 | 87 |
| 59 | Thermomechanical behavior of a two-way shape memory composite actuator. Smart Materials and Structures, 2013, 22, 055009. | 3.5 | 60 |
| 60 | Adhesion mechanics of graphene membranes. Solid State Communications, 2012, 152, 1359-1364. | 1.9 | 119 |
| 61 | Photo-origamiâ€”Bending and folding polymers with light. Applied Physics Letters, 2012, 100, . | 3.3 | 183 |
| 62 | Multiscale design optimization of lithium ion batteries using adjoint sensitivity analysis. International Journal for Numerical Methods in Engineering, 2012, 92, 475-494. | 2.8 | 52 |
| 63 | Thermomechanical behavior of shape memory elastomeric composites. Journal of the Mechanics and Physics of Solids, 2012, 60, 67-83. | 4.8 | 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. | 3.5 | 128 |
| 66 | Ultrastrong adhesion of graphene membranes. Nature Nanotechnology, 2011, 6, 543-546. | 31.5 | 904 |
| 67 | Effects of electrode particle morphology on stress generation in silicon during lithium insertion. Journal of Power Sources, 2011, 196, 9672-9681. | 7.8 | 49 |
| 68 | Nanostructured silicon electrodes for solid-state 3-d rechargeable lithium batteries. Sensors and Actuators A: Physical, 2011, 167, 139-145. | 4.1 | 15 |
| 69 | Microstructure Study of Electrochemically Driven Li _x Si. Advanced Energy Materials, 2011, 1, 1199-1204. | 19.5 | 61 |
| 70 | Photo-induced deformation of active polymer films: Single spot irradiation. International Journal of Solids and Structures, 2011, 48, 2089-2101. | 2.7 | 38 |
| 71 | Mechanics of soft active materials with phase evolution. International Journal of Plasticity, 2010, 26, 603-616. | 8.8 | 69 |
| 72 | Thermo-mechanical properties of alumina films created using the atomic layer deposition technique. Sensors and Actuators A: Physical, 2010, 164, 58-67. | 4.1 | 83 |

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| 73 | Stress generation in silicon particles during lithium insertion. Applied Physics Letters, 2010, 97, . | 3.3 | 128 |
| 74 | Switchable phononic wave filtering, guiding, harvesting, and actuating in polarization-patterned piezoelectric solids. Applied Physics Letters, 2010, 96, . | 3.3 | 66 |
| 75 | Light-induced stress relief to improve flaw tolerance in network polymers. Journal of Applied Physics, 2010, 107, . | 2.5 | 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, . | 1.4 | 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. | 2.5 | 23 |
| 78 | van der Waals adhesion of graphene membranes. Journal of Applied Physics, 2010, 107, . | 2.5 | 69 |
| 79 | Strain effects on the thermal conductivity of nanostructures. Physical Review B, 2010, 81, . | 3.2 | 375 |
| 80 | Piezoelectric constants for ZnO calculated using classical polarizable core-shell potentials. Nanotechnology, 2010, 21, 445707. | 2.6 | 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. | 4.3 | 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. | 1.8 | 28 |
| 84 | Photomechanics of blanket and patterned liquid crystal elastomer films. Mechanics of Materials, 2009, 41, 1083-1089. | 3.2 | 46 |
| 85 | Photomechanics of light-activated polymers. Journal of the Mechanics and Physics of Solids, 2009, 57, 1103-1121. | 4.8 | 138 |
| 86 | Numerical modeling of electrochemical-mechanical interactions in lithium polymer batteries. Computers and Structures, 2009, 87, 1567-1579. | 4.4 | 120 |
| 87 | Patterned bilayer plate microstructures subjected to thermal loading: Deformation and stresses. International Journal of Solids and Structures, 2009, 46, 125-134. | 2.7 | 2 |
| 88 | Thermomechanical properties of aluminum alkoxide (alucone) films created using molecular layer deposition. Acta Materialia, 2009, 57, 5083-5092. | 7.9 | 41 |
| 89 | The mechanical robustness of atomic-layer- and molecular-layer-deposited coatings on polymer substrates. Journal of Applied Physics, 2009, 105, . | 2.5 | 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. | 2.5 | 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. | 3.5 | 60 |
| 93 | Optimal synthesis of tunable elastic wave-guides. Computer Methods in Applied Mechanics and Engineering, 2008, 198, 292-301. | 6.6 | 16 |
| 94 | Capillary adhesion model for contacting micromachined surfaces. Scripta Materialia, 2008, 59, 916-920. | 5.2 | 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. | 0.3 | 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. | 1.3 | 18 |
| 99 | Photomechanics of mono- and polydomain liquid crystal elastomer films. Journal of Applied Physics, 2007, 102, . | 2.5 | 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. | 3.3 | 59 |
| 104 | Adhesion of arbitrary-shaped thin-film microstructures. Microelectronics Reliability, 2007, 47, 2014-2024. | 1.7 | 2 |
| 105 | Design of phononic materials/structures for surface wave devices using topology optimization. Structural and Multidisciplinary Optimization, 2007, 34, 111-121. | 3.5 | 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. | 2.7 | 20 |
| 108 | Atomistic simulations of the yielding of gold nanowires. Acta Materialia, 2006, 54, 643-653. | 7.9 | 242 |

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| 109 | Thermomechanics of shape memory polymers: Uniaxial experiments and constitutive modeling. International Journal of Plasticity, 2006, 22, 279-313. | 8.8 | 650 |
| 110 | The effect of nanoparticles on rough surface adhesion. Journal of Applied Physics, 2006, 99, 104304. | 2.5 | 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. Nature Materials, 2005, 4, 629-634. | 27.5 | 501 |
| 113 | A Microstructural Hyperelastic Model of Pulmonary Arteries Under Normo- and Hypertensive Conditions. Annals of Biomedical Engineering, 2005, 33, 1042-1052. | 2.5 | 43 |
| 114 | Acoustic-phonon dispersion in nanowires. Journal of Applied Physics, 2005, 97, 074313. | 2.5 | 11 |
| 115 | Tetragonal Phase Transformation in Gold Nanowires. Journal of Engineering Materials and Technology, Transactions of the ASME, 2005, 127, 417-422. | 1.4 | 44 |
| 116 | Design of Nanostructured Phononic Materials. , 2005, , . | | 4 |
| 117 | Suppression of inelastic deformation of nanocoated thin film microstructures. Journal of Applied Physics, 2004, 95, 8216-8225. | 2.5 | 17 |
| 118 | Stability and Structural Transition of Gold Nanowires under Their Own Surface Stresses. Materials Research Society Symposia Proceedings, 2004, 854, U5.7.1. | 0.1 | 0 |
| 119 | Thermomechanics of the Shape Memory Effect in Polymers. Materials Research Society Symposia Proceedings, 2004, 855, 135. | 0.1 | 2 |
| 120 | The Strength of Gold Nanowires. Nano Letters, 2004, 4, 2431-2436. | 9.1 | 280 |
| 121 | Yield Strength Asymmetry in Metal Nanowires. Nano Letters, 2004, 4, 1863-1867. | 9.1 | 207 |
| 122 | Thermomechanics of shape memory polymer nanocomposites. Mechanics of Materials, 2004, 36, 929-940. | 3.2 | 266 |
| 123 | Thermal cycling response of layered gold/polysilicon MEMS structures. Mechanics of Materials, 2004, 36, 45-55. | 3.2 | 25 |
| 124 | Geometric and material nonlinearity during the deformation of micron-scale thin-film bilayers subject to thermal loading. Journal of the Mechanics and Physics of Solids, 2004, 52, 2101-2126. | 4.8 | 32 |
| 125 | Atomistic simulation of the structure and elastic properties of gold nanowires. Journal of the Mechanics and Physics of Solids, 2004, 52, 1935-1962. | 4.8 | 300 |
| 126 | Creep of thin film Au on bimaterial Au/Si microcantilevers. Acta Materialia, 2004, 52, 2133-2146. | 7.9 | 32 |

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|-----|---|------|-----------|
| 127 | Surface stress driven reorientation of gold nanowires. Physical Review B, 2004, 70, . | 3.2 | 151 |
| 128 | Internal stress storage in shape memory polymer nanocomposites. Applied Physics Letters, 2004, 85, 290-292. | 3.3 | 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. | 4.1 | 70 |
| 132 | Design of bimorph piezo-composite actuators with functionally graded microstructure. Sensors and Actuators A: Physical, 2003, 107, 248-260. | 4.1 | 104 |
| 133 | Surface-stress-induced phase transformation in metal nanowires. Nature Materials, 2003, 2, 656-660. | 27.5 | 477 |
| 134 | Thermomechanical recovery couplings of shape memory polymers in flexure. Smart Materials and Structures, 2003, 12, 947-954. | 3.5 | 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. | 1.8 | 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. | 2.6 | 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. | 1.4 | 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. | 2.5 | 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. | 2.2 | 3 |
| 143 | Shape memory polymer nanocomposites. Acta Materialia, 2002, 50, 5115-5126. | 7.9 | 388 |
| 144 | Fabrication of SiCN MEMS by photopolymerization of pre-ceramic polymer. Sensors and Actuators A: Physical, 2002, 95, 120-134. | 4.1 | 172 |

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| 145 | Application of microforging to SiCN MEMS fabrication. <i>Sensors and Actuators A: Physical</i> , 2002, 95, 143-151. | 4.1 | 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. | 4.8 | 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. | 0.6 | 58 |
| 149 | Viscoelectroelastic behavior of heterogeneous piezoelectric solids. <i>Journal of Applied Physics</i> , 2001, 89, 2893-2903. | 2.5 | 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. | 4.1 | 143 |
| 152 | Title is missing!. <i>International Journal of Fracture</i> , 2001, 110, 101-121. | 2.2 | 19 |
| 153 | Fracture initiation at three-dimensional bimaterial interface corners. <i>Journal of the Mechanics and Physics of Solids</i> , 2001, 49, 609-634. | 4.8 | 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. | 0.6 | 16 |
| 155 | Initiation toughness of silicon/glass anodic bonds. <i>Acta Materialia</i> , 2000, 48, 735-744. | 7.9 | 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. | 5.6 | 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. | 1.1 | 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. | 1.1 | 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. | 2.5 | 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. | 2.5 | 32 |
| 161 | Stress intensities at interface corners in anisotropic bimaterials. <i>Engineering Fracture Mechanics</i> , 1999, 62, 555-576. | 4.3 | 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. | 2.2 | 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. | 2.5 | 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. | 0.6 | 159 |
| 165 | Micromechanics of Magnetoelastoelectric Composite Materials: Average Fields and Effective Behavior. <i>Journal of Intelligent Material Systems and Structures</i> , 1998, 9, 404-416. | 2.5 | 328 |
| 166 | Fracture initiation at sharp notches in single crystal silicon. <i>Journal of Applied Physics</i> , 1998, 83, 3574-3582. | 2.5 | 32 |
| 167 | One-Dimensional Composite Micromechanics. <i>International Journal of Mechanical Engineering Education</i> , 1998, 26, 38-50. | 1.0 | 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. | 2.2 | 116 |
| 170 | Inclusions and inhomogeneities in transversely isotropic piezoelectric solids. <i>International Journal of Solids and Structures</i> , 1997, 34, 3571-3582. | 2.7 | 143 |
| 171 | Fracture initiation at sharp notches: Correlation using critical stress intensities. <i>International Journal of Solids and Structures</i> , 1997, 34, 3873-3883. | 2.7 | 198 |
| 172 | Green's functions for transversely isotropic piezoelectric solids. <i>International Journal of Solids and Structures</i> , 1996, 33, 4571-4581. | 2.7 | 125 |
| 173 | Elastic constants of textured short-fiber composites. <i>Journal of the Mechanics and Physics of Solids</i> , 1996, 44, 1509-1541. | 4.8 | 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. | 1.1 | 13 |
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