

Dimitris C Lagoudas

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2487948/dimitris-c-lagoudas-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

284
papers

10,487
citations

54
h-index

97
g-index

332
ext. papers

11,558
ext. citations

4.1
avg, IF

6.54
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 284 | A thermodynamical constitutive model for shape memory materials. Part I. The monolithic shape memory alloy. <i>International Journal of Plasticity</i> , 1996 , 12, 805-842 | 7.6 | 676 |
| 283 | Micromechanical analysis of the effective elastic properties of carbon nanotube reinforced composites. <i>Mechanics of Materials</i> , 2006 , 38, 884-907 | 3.3 | 372 |
| 282 | Shape memory alloys, Part I: General properties and modeling of single crystals. <i>Mechanics of Materials</i> , 2006 , 38, 391-429 | 3.3 | 348 |
| 281 | Effect of carbon nanotubes on the interfacial shear strength of T650 carbon fiber in an epoxy matrix. <i>Composites Science and Technology</i> , 2009 , 69, 898-904 | 8.6 | 317 |
| 280 | Constitutive model for the numerical analysis of phase transformation in polycrystalline shape memory alloys. <i>International Journal of Plasticity</i> , 2012 , 32-33, 155-183 | 7.6 | 291 |
| 279 | Shape memory alloys, Part II: Modeling of polycrystals. <i>Mechanics of Materials</i> , 2006 , 38, 430-462 | 3.3 | 267 |
| 278 | Origami-inspired active structures: a synthesis and review. <i>Smart Materials and Structures</i> , 2014 , 23, 094001 | 3.4 | 266 |
| 277 | Mechanical properties of surface-functionalized SWCNT/epoxy composites. <i>Carbon</i> , 2008 , 46, 320-328 | 10.4 | 215 |
| 276 | Modeling of transformation-induced plasticity and its effect on the behavior of porous shape memory alloys. Part I: constitutive model for fully dense SMAs. <i>Mechanics of Materials</i> , 2004 , 36, 865-892 | 2.3 | 193 |
| 275 | Thermomechanical Response of Shape Memory Composites. <i>Journal of Intelligent Material Systems and Structures</i> , 1994 , 5, 333-346 | 2.3 | 193 |
| 274 | A constitutive theory for shape memory polymers. Part I: Large deformations. <i>Journal of the Mechanics and Physics of Solids</i> , 2008 , 56, 1752-1765 | 5 | 184 |
| 273 | Modeling of graphene-polymer interfacial mechanical behavior using molecular dynamics. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2009 , 17, 015002 | 2 | 177 |
| 272 | On thermomechanics and transformation surfaces of polycrystalline NiTi shape memory alloy material. <i>International Journal of Plasticity</i> , 2000 , 16, 1309-1343 | 7.6 | 177 |
| 271 | Thermomechanical modeling of polycrystalline SMAs under cyclic loading, Part I: theoretical derivations. <i>International Journal of Engineering Science</i> , 1999 , 37, 1089-1140 | 5.7 | 170 |
| 270 | A 3-D constitutive model for shape memory alloys incorporating pseudoelasticity and detwinning of self-accommodated martensite. <i>International Journal of Plasticity</i> , 2007 , 23, 1679-1720 | 7.6 | 165 |
| 269 | Effective properties of three-phase electro-magneto-elastic composites. <i>International Journal of Engineering Science</i> , 2005 , 43, 790-825 | 5.7 | 157 |
| 268 | Thermomechanical modeling of polycrystalline SMAs under cyclic loading, Part III: evolution of plastic strains and two-way shape memory effect. <i>International Journal of Engineering Science</i> , 1999 , 37, 1175-1203 | 5.7 | 155 |

| | | | |
|-----|--|-----|-----|
| 267 | Characterization of electrical and thermal properties of carbon nanotube/epoxy composites. <i>Composites Part B: Engineering</i> , 2014 , 56, 611-620 | 10 | 154 |
| 266 | Influence of cold work and heat treatment on the shape memory effect and plastic strain development of NiTi. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 308, 161-175 | 5.3 | 154 |
| 265 | On the numerical evaluation of Eshelby's tensor and its application to elastoplastic fibrous composites. <i>Computational Mechanics</i> , 1990 , 7, 13-19 | 4 | 154 |
| 264 | Hysteresis Modeling of SMA Actuators for Control Applications. <i>Journal of Intelligent Material Systems and Structures</i> , 1998 , 9, 432-448 | 2.3 | 144 |
| 263 | A Micromechanics Model for the Electrical Conductivity of Nanotube-Polymer Nanocomposites. <i>Journal of Composite Materials</i> , 2009 , 43, 917-941 | 2.7 | 141 |
| 262 | A UNIFIED THERMODYNAMIC CONSTITUTIVE MODEL FOR SMA AND FINITE ELEMENT ANALYSIS OF ACTIVE METAL MATRIX COMPOSITES. <i>Mechanics of Advanced Materials and Structures</i> , 1996 , 3, 153-179 | | 137 |
| 261 | A constitutive theory for shape memory polymers. Part II: A linearized model for small deformations. <i>Journal of the Mechanics and Physics of Solids</i> , 2008 , 56, 1766-1778 | 5 | 136 |
| 260 | Three-dimensional modeling and numerical analysis of rate-dependent irrecoverable deformation in shape memory alloys. <i>International Journal of Plasticity</i> , 2010 , 26, 1485-1507 | 7.6 | 128 |
| 259 | Effect of heat treatment on morphology, crystalline structure and photocatalysis properties of TiO ₂ nanotubes on Ti substrate and freestanding membrane. <i>Applied Surface Science</i> , 2011 , 257, 6451-6461 | 6.7 | 126 |
| 258 | Thermomechanical modeling of polycrystalline SMAs under cyclic loading, Part II: material characterization and experimental results for a stable transformation cycle. <i>International Journal of Engineering Science</i> , 1999 , 37, 1141-1173 | 5.7 | 125 |
| 257 | Review and perspectives: shape memory alloy composite systems. <i>Acta Mechanica</i> , 2015 , 226, 3907-3960 | 2.1 | 112 |
| 256 | On the stress-assisted magnetic-field-induced phase transformation in Ni ₂ MnGa ferromagnetic shape memory alloys. <i>Acta Materialia</i> , 2007 , 55, 4253-4269 | 8.4 | 111 |
| 255 | A thermodynamical constitutive model for shape memory materials. Part II. The SMA composite material. <i>International Journal of Plasticity</i> , 1996 , 12, 843-873 | 7.6 | 110 |
| 254 | Thermomechanical modeling of polycrystalline SMAs under cyclic loading, Part IV: modeling of minor hysteresis loops. <i>International Journal of Engineering Science</i> , 1999 , 37, 1205-1249 | 5.7 | 106 |
| 253 | Development of a shape memory alloy actuated biomimetic vehicle. <i>Smart Materials and Structures</i> , 2000 , 9, 673-683 | 3.4 | 100 |
| 252 | Thermomechanical characterization of NiTiCu and NiTi SMA actuators: influence of plastic strains. <i>Smart Materials and Structures</i> , 2000 , 9, 640-652 | 3.4 | 99 |
| 251 | Processing of TiNi from elemental powders by hot isostatic pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 280, 334-348 | 5.3 | 97 |
| 250 | Elastoplastic behavior of metal matrix composites based on incremental plasticity and the Mori-Tanaka averaging scheme. <i>Computational Mechanics</i> , 1991 , 8, 193-203 | 4 | 88 |

| | | | |
|-----|--|-----|----|
| 249 | Computational Micromechanics of Clustering and Interphase Effects in Carbon Nanotube Composites. <i>Mechanics of Advanced Materials and Structures</i> , 2007 , 14, 277-294 | 1.8 | 82 |
| 248 | Constitutive modeling and structural analysis considering simultaneous phase transformation and plastic yield in shape memory alloys. <i>Smart Materials and Structures</i> , 2009 , 18, 104017 | 3.4 | 81 |
| 247 | Modeling porous shape memory alloys using micromechanical averaging techniques. <i>Mechanics of Materials</i> , 2002 , 34, 1-24 | 3.3 | 78 |
| 246 | Modeling of the thermomechanical behavior of porous shape memory alloys. <i>International Journal of Solids and Structures</i> , 2001 , 38, 8653-8671 | 3.1 | 77 |
| 245 | . <i>Smart Materials and Structures</i> , 1997 , 6, 265-277 | 3.4 | 75 |
| 244 | Modeling the Coupled Strain and Magnetization Response of Magnetic Shape Memory Alloys under Magnetomechanical Loading. <i>Journal of Intelligent Material Systems and Structures</i> , 2009 , 20, 143-170 | 2.3 | 74 |
| 243 | Characterization and modeling of the magnetic field-induced strain and work output in magnetic shape memory alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 312, 164-175 | 2.8 | 71 |
| 242 | A unified thermodynamic constitutive model for SMA and finite element analysis of active metal matrix composites. <i>Mechanics of Advanced Materials and Structures</i> , 1996 , 3, 153-179 | | 71 |
| 241 | On the role of thermoelectric heat transfer in the design of SMA actuators: theoretical modeling and experiment. <i>Smart Materials and Structures</i> , 1995 , 4, 252-263 | 3.4 | 70 |
| 240 | Processing and Characterization of NiTi Porous SMA by Elevated Pressure Sintering. <i>Journal of Intelligent Material Systems and Structures</i> , 2002 , 13, 837-850 | 2.3 | 69 |
| 239 | Time evolution of overstress profiles near broken fibers in a composite with a viscoelastic matrix. <i>International Journal of Solids and Structures</i> , 1989 , 25, 45-66 | 3.1 | 69 |
| 238 | Energy dissipation due to interfacial slip in nanocomposites reinforced with aligned carbon nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9725-35 | 9.5 | 68 |
| 237 | Dynamic loading of polycrystalline shape memory alloy rods. <i>Mechanics of Materials</i> , 2003 , 35, 689-716 | 3.3 | 59 |
| 236 | Development of a Shape-Memory-Alloy Actuated Biomimetic Hydrofoil. <i>Journal of Intelligent Material Systems and Structures</i> , 2002 , 13, 35-49 | 2.3 | 59 |
| 235 | Numerical Investigation of an Adaptive Vibration Absorber Using Shape Memory Alloys. <i>Journal of Intelligent Material Systems and Structures</i> , 2011 , 22, 67-80 | 2.3 | 57 |
| 234 | Modeling of transformation-induced plasticity and its effect on the behavior of porous shape memory alloys. Part II: porous SMA response. <i>Mechanics of Materials</i> , 2004 , 36, 893-913 | 3.3 | 56 |
| 233 | Experimental and microstructural characterization of simultaneous creep, plasticity and phase transformation in Ti50Pd40Ni10 high-temperature shape memory alloy. <i>Acta Materialia</i> , 2010 , 58, 1618-1628 | 8.4 | 54 |
| 232 | Effective mechanical properties of fuzzy fiber composites. <i>Composites Part B: Engineering</i> , 2012 , 43, 2577-2593 | 10 | 52 |

| | | | |
|-----|---|------|----|
| 231 | On the fracture toughness enhancement due to stress-induced phase transformation in shape memory alloys. <i>International Journal of Plasticity</i> , 2013 , 50, 158-169 | 7.6 | 50 |
| 230 | Actuation of elastomeric rods with embedded two-way shape memory alloy actuators. <i>Smart Materials and Structures</i> , 1998 , 7, 771-783 | 3.4 | 50 |
| 229 | Multi-objective Bayesian materials discovery: Application on the discovery of precipitation strengthened NiTi shape memory alloys through micromechanical modeling. <i>Materials and Design</i> , 2018 , 160, 810-827 | 8.1 | 50 |
| 228 | Active flexible rods with embedded SMA fibers. <i>Smart Materials and Structures</i> , 1992 , 1, 162-167 | 3.4 | 49 |
| 227 | Interlaminar fracture toughness of woven fabric composite laminates with carbon nanotube/epoxy interleaf films. <i>Journal of Applied Polymer Science</i> , 2011 , 121, 2394-2405 | 2.9 | 46 |
| 226 | Highly Multifunctional Dopamine-Functionalized Reduced Graphene Oxide Supercapacitors. <i>Matter</i> , 2019 , 1, 1532-1546 | 12.7 | 45 |
| 225 | A mode I fracture analysis of a center-cracked infinite shape memory alloy plate under plane stress. <i>International Journal of Fracture</i> , 2012 , 175, 151-166 | 2.3 | 45 |
| 224 | A constitutive model for cyclic actuation of high-temperature shape memory alloys. <i>Mechanics of Materials</i> , 2014 , 68, 120-136 | 3.3 | 43 |
| 223 | Finite element analysis of the demagnetization effect and stress inhomogeneities in magnetic shape memory alloy samples. <i>Philosophical Magazine</i> , 2011 , 91, 4126-4157 | 1.6 | 43 |
| 222 | Thermomechanical transformation fatigue of TiNiCu SMA actuators under a corrosive environment [Part I: Experimental results. <i>International Journal of Fatigue</i> , 2009 , 31, 1571-1578 | 5 | 42 |
| 221 | Impact induced phase transformation in shape memory alloys. <i>Journal of the Mechanics and Physics of Solids</i> , 2000 , 48, 275-300 | 5 | 42 |
| 220 | Homogenization of aligned fuzzy fiber composites. <i>International Journal of Solids and Structures</i> , 2011 , 48, 2668-2680 | 3.1 | 40 |
| 219 | Experimental investigation of simultaneous creep, plasticity and transformation of Ti50.5Pd30Ni19.5 high temperature shape memory alloy during cyclic actuation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 530, 117-127 | 5.3 | 38 |
| 218 | Electrical and mechanical properties of carbon nanotube-epoxy nanocomposites. <i>Journal of Applied Polymer Science</i> , 2010 , 116, 191-202 | 2.9 | 37 |
| 217 | Raman microscopy of residual strains in carbon nanotube/epoxy composites. <i>Carbon</i> , 2010 , 48, 1750-1756 | 5.4 | 36 |
| 216 | On the driving force for crack growth during thermal actuation of shape memory alloys. <i>Journal of the Mechanics and Physics of Solids</i> , 2016 , 89, 255-271 | 5 | 35 |
| 215 | Magnetic field-induced martensitic phase transformation in magnetic shape memory alloys: Modeling and experiments. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 69, 33-66 | 5 | 35 |
| 214 | Buckling instabilities of octadecylamine functionalized carbon nanotubes embedded in epoxy. <i>Composites Science and Technology</i> , 2006 , 66, 128-136 | 8.6 | 35 |

| | | | |
|-----|--|-----|----|
| 213 | Effect of thermal interface on heat flow in carbon nanofiber composites. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 1061-72 | 9.5 | 33 |
| 212 | Effective thermoelastic properties of composites with periodicity in cylindrical coordinates. <i>International Journal of Solids and Structures</i> , 2012 , 49, 2590-2603 | 3.1 | 32 |
| 211 | Characterizing and modeling the free recovery and constrained recovery behavior of a polyurethane shape memory polymer. <i>Smart Materials and Structures</i> , 2011 , 20, 940041-9400418 | 3.4 | 32 |
| 210 | B-staged epoxy/single-walled carbon nanotube nanocomposite thin films for composite reinforcement. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 290-298 | 2.9 | 32 |
| 209 | Compressive Failure due to Kinking of Fibrous Composites. <i>Journal of Composite Materials</i> , 1993 , 27, 83-106 | 2.7 | 32 |
| 208 | A surfactant dispersed SWCNT-polystyrene composite characterized for electrical and mechanical properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010 , 41, 842-849 | 8.4 | 31 |
| 207 | Analysis of the finite deformation response of shape memory polymers: II. 1D calibration and numerical implementation of a finite deformation, thermoelastic model. <i>Smart Materials and Structures</i> , 2010 , 19, 075006 | 3.4 | 30 |
| 206 | Material Characterization of SMA Actuators Under Nonproportional Thermomechanical Loading. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1999 , 121, 75-85 | 1.8 | 30 |
| 205 | On the Fracture Toughness of Pseudoelastic Shape Memory Alloys. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014 , 81, | 2.7 | 29 |
| 204 | A Micromechanics Model for the Thermal Conductivity of Nanotube-Polymer Nanocomposites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2008 , 75, | 2.7 | 29 |
| 203 | Residual deformation of active structures with SMA actuators. <i>International Journal of Mechanical Sciences</i> , 1999 , 41, 595-619 | 5.5 | 29 |
| 202 | Fracture toughness of NiTi towards establishing standard test methods for phase transforming materials. <i>Acta Materialia</i> , 2019 , 162, 226-238 | 8.4 | 28 |
| 201 | Analysis of the finite deformation response of shape memory polymers: I. Thermomechanical characterization. <i>Smart Materials and Structures</i> , 2010 , 19, 075005 | 3.4 | 26 |
| 200 | Modeling of shape memory alloy pseudoelastic spring elements using Preisach model for passive vibration isolation 2002 , | | 26 |
| 199 | The cylindrical bending of composite plates with piezoelectric and SMA layers. <i>Smart Materials and Structures</i> , 1994 , 3, 309-317 | 3.4 | 25 |
| 198 | Micromechanics of precipitated near-equiatomic Ni-rich NiTi shape memory alloys. <i>Acta Mechanica</i> , 2014 , 225, 1167-1185 | 2.1 | 24 |
| 197 | Material and spatial gauge theories of solids II. Gauge constructs, geometry, and kinematics. <i>International Journal of Engineering Science</i> , 1989 , 27, 411-431 | 5.7 | 24 |
| 196 | Identification of energy dissipation mechanisms in CNT-reinforced nanocomposites. <i>Nanotechnology</i> , 2016 , 27, 105707 | 3.4 | 24 |

| | | | |
|-----|---|-----|----|
| 195 | Impact induced propagation of phase transformation in a shape memory alloy rod. <i>International Journal of Plasticity</i> , 2002 , 18, 1447-1479 | 7.6 | 23 |
| 194 | Stable Crack Growth During Thermal Actuation of Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , 2016 , 2, 104-113 | 2.8 | 22 |
| 193 | Fatigue life characterization of shape memory alloys undergoing thermomechanical cyclic loading 2003 , | | 22 |
| 192 | Lyapunov exponents estimation for hysteretic systems. <i>International Journal of Solids and Structures</i> , 2009 , 46, 1269-1286 | 3.1 | 21 |
| 191 | Phase transformation in free-standing SMA nanowires. <i>Acta Materialia</i> , 2011 , 59, 1871-1880 | 8.4 | 21 |
| 190 | Interfacial Engineering of Reduced Graphene Oxide for Aramid Nanofiber-Enabled Structural Supercapacitors. <i>Batteries and Supercaps</i> , 2019 , 2, 464-472 | 5.6 | 20 |
| 189 | On the fracture toughness and stable crack growth in shape memory alloy actuators in the presence of transformation-induced plasticity. <i>International Journal of Fracture</i> , 2018 , 209, 117-130 | 2.3 | 20 |
| 188 | Prediction of Cryogen Leak Rate through Damaged Composite Laminates. <i>Journal of Composite Materials</i> , 2007 , 41, 41-71 | 2.7 | 20 |
| 187 | Effective Elastic Properties of Fiber-Reinforced Concrete with Random Fibers. <i>Journal of Engineering Mechanics - ASCE</i> , 1991 , 117, 2931-2938 | 2.4 | 20 |
| 186 | A validated model for induction heating of shape memory alloy actuators. <i>Smart Materials and Structures</i> , 2016 , 25, 045022 | 3.4 | 19 |
| 185 | A stochastic thermodynamic model for the gradual thermal transformation of SMA polycrystals. <i>Smart Materials and Structures</i> , 1997 , 6, 235-250 | 3.4 | 19 |
| 184 | Highly ordered uniform single-crystal Bi nanowires: fabrication and characterization. <i>Nanotechnology</i> , 2007 , 18, 395601 | 3.4 | 19 |
| 183 | Design of space systems using shape memory alloys 2003 , | | 19 |
| 182 | Simplified shape memory alloy (SMA) material model for vibration isolation 2001 , 4326, 452 | | 17 |
| 181 | Colloidal microstructures, transport, and impedance properties within interfacial microelectrodes. <i>Applied Physics Letters</i> , 2007 , 90, 224102 | 3.4 | 16 |
| 180 | Phenomenological modeling of ferromagnetic shape memory alloys 2004 , | | 16 |
| 179 | Modeling of thermoelectric heat transfer in shape memory alloy actuators: Transient and multiple cycle solutions. <i>International Journal of Engineering Science</i> , 1995 , 33, 2345-2364 | 5.7 | 16 |
| 178 | Fracture toughness of fiber metal laminates: Carbon nanotube modified Ti/polymer/matrix composite interface. <i>Journal of Composite Materials</i> , 2014 , 48, 2697-2710 | 2.7 | 15 |

| | | | |
|-----|---|-----|----|
| 177 | Analytical investigation of structurally stable configurations in shape memory alloy-actuated plates. <i>International Journal of Solids and Structures</i> , 2015 , 69-70, 442-458 | 3.1 | 15 |
| 176 | Transformation characteristics of shape memory alloy composites. <i>Smart Materials and Structures</i> , 2011 , 20, 094002 | 3.4 | 15 |
| 175 | Branched aramid nanofiber-polyaniline electrodes for structural energy storage. <i>Nanoscale</i> , 2020 , 12, 16840-16850 | 7.7 | 15 |
| 174 | Evolution of internal damage during actuation fatigue in shape memory alloys. <i>International Journal of Fatigue</i> , 2019 , 124, 315-327 | 5 | 15 |
| 173 | Finite strain constitutive modeling for shape memory alloys considering transformation-induced plasticity and two-way shape memory effect. <i>International Journal of Solids and Structures</i> , 2021 , 221, 42-59 | 3.1 | 15 |
| 172 | A coupled layered thermomechanical shape memory alloy beam element with enhanced higher order temperature field approximations. <i>Journal of Intelligent Material Systems and Structures</i> , 2016 , 27, 2359-2384 | 2.3 | 14 |
| 171 | Stable crack growth in NiTi shape memory alloys: 3D finite element modeling and experimental validation. <i>Smart Materials and Structures</i> , 2019 , 28, 064001 | 3.4 | 13 |
| 170 | On the Effect of Latent Heat on the Fracture Toughness of Pseudoelastic Shape Memory Alloys. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014 , 81, | 2.7 | 13 |
| 169 | Modeling and Experimental Study of Simultaneous Creep and Transformation in Polycrystalline High-Temperature Shape Memory Alloys. <i>Journal of Intelligent Material Systems and Structures</i> , 2009 , 20, 2257-2267 | 2.3 | 13 |
| 168 | Effects of non-planar geometries and volumetric expansion in the modeling of oxidation in titanium. <i>International Journal of Engineering Science</i> , 2001 , 39, 695-714 | 5.7 | 13 |
| 167 | Development of a fuel-powered shape memory alloy actuator system: II. Fabrication and testing. <i>Smart Materials and Structures</i> , 2007 , 16, S95-S107 | 3.4 | 12 |
| 166 | Fuel-powered compact SMA actuator 2002 , | | 12 |
| 165 | Thermodynamical constitutive model for the shape memory effect due to transformation and reorientation 1994 , | | 12 |
| 164 | Dispersion relations for the linearized field equations of dislocation dynamics. <i>International Journal of Engineering Science</i> , 1988 , 26, 837-846 | 5.7 | 12 |
| 163 | Self-foldable origami reflector antenna enabled by shape memory polymer actuation. <i>Smart Materials and Structures</i> , 2020 , 29, 115011 | 3.4 | 12 |
| 162 | Phenomenological modeling of induced transformation anisotropy in shape memory alloy actuators 2012 , | | 11 |
| 161 | Microtubules as mechanical force sensors. <i>BioSystems</i> , 2007 , 88, 137-46 | 1.9 | 11 |
| 160 | Evolution of stresses in a simple class of oxidation problems. <i>Acta Mechanica</i> , 2006 , 181, 231-255 | 2.1 | 11 |

| | | | |
|-----|--|-----|----|
| 159 | Thermodynamics of multicomponent, elastic, crystalline solids. <i>Mechanics of Materials</i> , 2005 , 37, 121-141 | 3.3 | 11 |
| 158 | Effective elastic moduli of two-phase transversely isotropic composites with aligned clustered fibers. <i>Acta Mechanica</i> , 2000 , 145, 65-93 | 2.1 | 11 |
| 157 | FATIGUE DAMAGE AND SHAKEDOWN IN METAL MATRIX COMPOSITE LAMINATES. <i>Mechanics of Advanced Materials and Structures</i> , 1994 , 1, 171-202 | | 11 |
| 156 | Variational theory of motion of curved, twisted and extensible elastic rods. <i>International Journal of Engineering Science</i> , 1994 , 32, 569-577 | 5.7 | 11 |
| 155 | Design, fabrication, and testing of a multiple-actuation shape memory alloy pipe coupler. <i>Journal of Intelligent Material Systems and Structures</i> , 2018 , 29, 1165-1182 | 2.3 | 10 |
| 154 | Processing and Characterization of Epoxy/SWCNT/Woven Fabric Composites 2006 , | | 10 |
| 153 | Modeling of the magnetic field-induced martensitic variant reorientation and the associated magnetic shape memory effect in MSMAs 2005 , 5761, 454 | | 10 |
| 152 | Transformation behavior in a thermomechanically cycled TiNiCu alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001 , 32, 2689-2693 | 2.3 | 10 |
| 151 | Thermomechanical transformation fatigue of SMA actuators 2000 , | | 10 |
| 150 | Effects of a frictional interface on the load diffusion from a broken filament embedded in an elastic medium. <i>International Journal of Solids and Structures</i> , 1991 , 27, 833-847 | 3.1 | 10 |
| 149 | Structural reduced graphene oxide supercapacitors mechanically enhanced with tannic acid. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 2301-2308 | 5.8 | 9 |
| 148 | Dynamic magnetic shape memory alloys responses: Eddy current effect and Joule heating. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 465, 278-289 | 2.8 | 9 |
| 147 | Modeling size effects on the transformation behavior of shape memory alloy micropillars. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 075001 | 2 | 9 |
| 146 | Effect of Processing and Loading on Equiatomic NiTi Fatigue Life and Localized Failure Mechanisms 2013 , | | 9 |
| 145 | In situ displacement measurements and numerical predictions of embedded SMA transformation. <i>Smart Materials and Structures</i> , 2000 , 9, 701-710 | 3.4 | 9 |
| 144 | An experimental investigation of shape memory alloy springs for passive vibration isolation 2001 , | | 9 |
| 143 | Reversible phase transformations in a shape memory alloy In ₃ Mn nanowires observed by in situ transmission electron microscopy. <i>Materials Letters</i> , 2012 , 70, 109-112 | 3.3 | 8 |
| 142 | Solution Behavior of the Transient Heat Transfer Problem in Thermolectric Shape Memory Alloy Actuators. <i>SIAM Journal on Applied Mathematics</i> , 1997 , 57, 34-52 | 1.8 | 8 |

| | | | |
|-----|---|-----|---|
| 141 | Thermomechanical characterization of the nonlinear rate-dependent response of shape memory polymers 2008 , | | 8 |
| 140 | Modeling of oxidation and its effect on crack growth in titanium alloys. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 183, 35-50 | 5-7 | 8 |
| 139 | Thermodynamic constitutive model for cyclic loading of shape memory alloy materials with application to two-way training 1995 , | | 8 |
| 138 | A gauge theory of damage. <i>International Journal of Engineering Science</i> , 1991 , 29, 597-606 | 5-7 | 8 |
| 137 | Micromechanics modeling of the elastic moduli of rGO/ANF nanocomposites. <i>Acta Mechanica</i> , 2019 , 230, 265-280 | 2.1 | 8 |
| 136 | Predictive Modeling of the Constitutive Response of Precipitation Hardened Ni-Rich NiTi. <i>Shape Memory and Superelasticity</i> , 2017 , 3, 9-23 | 2.8 | 7 |
| 135 | Single crystal anisotropy and coupled stability analysis for variant reorientation in Magnetic Shape Memory Alloys. <i>European Journal of Mechanics, A/Solids</i> , 2015 , 54, 53-73 | 3-7 | 7 |
| 134 | Design of shape memory alloy pipe couplers: modeling and experiments 2012 , | | 7 |
| 133 | Influence of the Latent Heat of Transformation and Thermomechanical Coupling on the Performance of Shape Memory Alloy Actuators 2012 , | | 7 |
| 132 | A domain transformation technique in oxygen diffusion problems with moving oxidation fronts on unbounded domains. <i>International Journal for Numerical Methods in Engineering</i> , 1998 , 42, 361-384 | 2.4 | 7 |
| 131 | Thermomechanical cyclic loading and fatigue life characterization of nickel rich NiTi shape-memory alloy actuators 2008 , | | 7 |
| 130 | Application of a magnetic SMA constitutive model in the analysis of magnetomechanical boundary value problems 2006 , | | 7 |
| 129 | Shape Memory Alloys. <i>Smart Materials and Structures</i> , 2007 , 16, | 3-4 | 7 |
| 128 | Analytical Predictions and Experimental Measurements of Hydrogen Permeability in a Microcrack Damaged Composite 2005 , | | 7 |
| 127 | Nonlinear Vibration of a One-Degree of Freedom Shape Memory Alloy Oscillator: A Numerical-experimental Investigation 2005 , | | 7 |
| 126 | Thermoelectric SMA actuator: preliminary prototype testing 2003 , | | 7 |
| 125 | COMPUTATIONAL AND EXPERIMENTAL STUDIES OF AN ACTIVE SKIN FOR TURBULENT DRAG REDUCTION 2002 , | | 7 |
| 124 | Intelligent design optimization of a shape-memory-alloy-actuated reconfigurable wing 2000 , 3984, 338 | | 7 |

| | | | |
|-----|--|-----|---|
| 123 | A gauge theory of defects in media with microstructure. <i>International Journal of Engineering Science</i> , 1989 , 27, 237-249 | 5-7 | 7 |
| 122 | Modeling and Design of Shape Memory Alloy-based Origami Structures with Smooth Folds 2017 , | | 6 |
| 121 | Fabrication, characterization and micromechanics modeling of the electrical conductivity of reduced graphene oxide/aramid nanofiber nanocomposites. <i>Smart Materials and Structures</i> , 2019 , 28, 094001 | 3-4 | 6 |
| 120 | Stability Analysis of Magnetostatic Boundary Value Problems for Magnetic SMAs. <i>Journal of Intelligent Material Systems and Structures</i> , 2010 , 21, 1103-1116 | 2-3 | 6 |
| 119 | (Student Paper) Micromechanics Modeling of Functionally Graded Interphase Regions in Carbon Nanotube-Polymer Composites 2006 , | | 6 |
| 118 | Thermomechanical Characterization of SMA Actuators Under Cyclic Loading 2003 , 211 | | 6 |
| 117 | Arrays of micro-electrodes and electromagnets for processing of electro-magneto-elastic multifunctional composite materials 2003 , | | 6 |
| 116 | A Gradient-Based Constitutive Model for Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , 2017 , 3, 84-108 | 2-8 | 5 |
| 115 | Engineering design tools for shape memory alloy actuators: CAsMART collaborative best practices and case studies. <i>Journal of Intelligent Material Systems and Structures</i> , 2019 , 30, 2808-2830 | 2-3 | 5 |
| 114 | Special Issue of Composites Part B: Homogenization and Micromechanics of Smart and Multifunctional Materials. <i>Composites Part B: Engineering</i> , 2012 , 43, 2493-2494 | 10 | 5 |
| 113 | Nonlinear dynamics of a SMA large-scale space structure. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2012 , 34, 401-412 | 2 | 5 |
| 112 | Active skin for turbulent drag reduction. <i>Smart Materials and Structures</i> , 2008 , 17, 035004 | 3-4 | 5 |
| 111 | Thermomechanical Characterization and Modeling of Ni60Ti40 SMA for Actuated Chevrons 2006 , 281 | | 5 |
| 110 | Nonlinear dynamics of a SMA passive vibration damping device 2006 , 6169, 240 | | 5 |
| 109 | Characterization and 3-D modeling of Ni60Ti SMA for actuation of a variable geometry jet engine chevron 2007 , | | 5 |
| 108 | Wave propagation in shape memory alloy rods under impulsive loads. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2005 , 461, 3871-3892 | 2-4 | 5 |
| 107 | Surface Damage Modeling of Oxidized Metal Matrix Composite Laminates under Axial and Transverse Tension. <i>International Journal of Damage Mechanics</i> , 1998 , 7, 209-237 | 3 | 5 |
| 106 | Null Lagrangians, admissible tractions, and finite element methods. <i>International Journal of Solids and Structures</i> , 1986 , 22, 659-672 | 3-1 | 5 |

| | | | |
|-----|---|-----|---|
| 105 | Transformation of embedded shape memory alloy ribbons 1997 , | | 5 |
| 104 | Small-scale crack blunting at a bimaterial interface with Coulomb friction. <i>International Journal of Fracture</i> , 1991 , 52, 293-306 | 2-3 | 5 |
| 103 | Loading influence on the corrosion assessment during stress-induced martensite reorientation in nickel-titanium SMA. <i>Smart Materials and Structures</i> , 2020 , 29, 035013 | 3-4 | 5 |
| 102 | Mode I fracture toughness of hybrid co-cured Al-CFRP and NiTi-CFRP interfaces: An experimental and computational study. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 135, 105925 | 8-4 | 4 |
| 101 | Effect of stress redistribution during thermal actuation of shape memory alloys in notched cylindrical bars. <i>Journal of Intelligent Material Systems and Structures</i> , 2018 , 29, 2149-2163 | 2-3 | 4 |
| 100 | Characterization and Modeling of Thermo-Mechanical Fatigue in Equiatomic NiTi Actuators 2014 , | | 4 |
| 99 | Mechanical characterization in laminated composite for cryogenic application. <i>Polymer Composites</i> , 2013 , 34, 607-615 | 3 | 4 |
| 98 | Modeling fluid structure interaction with shape memory alloy actuated morphing aerostructures 2012 , | | 4 |
| 97 | Numerical computation of metal oxidation problems on bounded domains. <i>International Journal of Engineering Science</i> , 1998 , 36, 367-381 | 5-7 | 4 |
| 96 | Development of a fuel-powered shape memory alloy actuator system: I. Numerical analysis. <i>Smart Materials and Structures</i> , 2007 , 16, S81-S94 | 3-4 | 4 |
| 95 | Nonlinear dynamics and chaos in a shape memory alloy pseudoelastic oscillator 2007 , | | 4 |
| 94 | MEMS-based active skin for turbulent drag reduction 2003 , | | 4 |
| 93 | Fabrication and testing of a shape memory alloy actuated reconfigurable wing 2002 , | | 4 |
| 92 | Finite element implementation of the gauge theory of damage. <i>International Journal of Engineering Science</i> , 1994 , 32, 1877-1888 | 5-7 | 4 |
| 91 | Adaptive Hysteresis Compensation for SMA Actuators with Stress-Induced Variations in Hysteresis. <i>Journal of Intelligent Material Systems and Structures</i> , 1999 , 10, 845-854 | 2-3 | 4 |
| 90 | Effect of tension-compression asymmetry and partial transformation on the response of shape memory alloy beam structures 2020 , | | 4 |
| 89 | Tuning of shape memory polymer properties by controlling 3D printing strategy. <i>CIRP Annals - Manufacturing Technology</i> , 2020 , 69, 213-216 | 4-9 | 4 |
| 88 | Multiscale Modeling of Multifunctional Fuzzy Fibers Based on Multi-Walled Carbon Nanotubes. <i>Springer Series in Materials Science</i> , 2014 , 135-176 | 0-9 | 4 |

| | | | |
|----|--|-----|---|
| 87 | Effect of Specimen Thickness on the Fracture Toughness of a NiTi Shape Memory Alloy. <i>Shape Memory and Superelasticity</i> , 2021 , 7, 90-100 | 2.8 | 4 |
| 86 | A Three-Dimensional Constitutive Modeling for Shape Memory Alloys Considering Two-Way Shape Memory Effect and Transformation-Induced Plasticity 2019 , | | 4 |
| 85 | A Finite Strain Constitutive Model for Martensitic Transformation in Shape Memory Alloys Based on Logarithmic Strain 2017 , | | 3 |
| 84 | Thermally activated energy dissipation in semi-crystalline polymer nanocomposites. <i>Composites Science and Technology</i> , 2016 , 134, 275-286 | 8.6 | 3 |
| 83 | Structural Mechanics and Design of Active Origami Structures 2019 , 331-409 | | 3 |
| 82 | Folding patterns and shape optimization using SMA-based self-folding laminates 2014 , | | 3 |
| 81 | Incorporation of Shape Memory Alloy Actuators into Morphing Aerostructures 2012 , 231-260 | | 3 |
| 80 | Modeling of Shape Memory Alloy Wire Meshes Using Effective Lamina Properties for Improved Analysis Efficiency 2013 , | | 3 |
| 79 | The influence of stress and temperature on the residual strain generated during pseudoelastic cycling of NiTi SMA wires 2011 , | | 3 |
| 78 | Influence of test procedures on the thermomechanical properties of a 55NiTi shape memory alloy 2008 , | | 3 |
| 77 | Effective properties of three-phase electro-magneto-elastic multifunctional composite materials 2003 , | | 3 |
| 76 | Fabrication, modeling, and characterization of porous shape memory alloys 2001 , | | 3 |
| 75 | Effect of transformation induced plasticity on the mechanical behavior of porous SMAs 2002 , | | 3 |
| 74 | Active skin for turbulent drag reduction 2002 , | | 3 |
| 73 | Modeling of thermomechanical response of porous shape memory alloys 2000 , | | 3 |
| 72 | Predicting the constitutive response of precipitation hardened NiTiHf 2017 , | | 2 |
| 71 | Modeling of thermo-mechanical fatigue and damage in shape memory alloy axial actuators 2015 , | | 2 |
| 70 | A simplified model for high-rate actuation of shape memory alloy torque tubes using induction heating. <i>Journal of Intelligent Material Systems and Structures</i> , 2018 , 29, 1088-1101 | 2.3 | 2 |

| | | | |
|----|--|-----|---|
| 69 | Effect of insulation layer for thermal shock in cryogenic composite laminates. <i>Polymer Composites</i> , 2013 , 34, 531-536 | 3 | 2 |
| 68 | Analysis and optimization of improved hybrid SMA flexures for high rate actuation 2011 , | | 2 |
| 67 | Characterizing and Modeling the Free Recovery and Constrained Recovery Behavior of a Polyurethane Shape Memory Polymer 2010 , | | 2 |
| 66 | Creep behavior in TiPdNi high temperature shape memory alloy 2009 , | | 2 |
| 65 | Parametric study and characterization of the isobaric thermomechanical transformation fatigue of nickel-rich NiTi SMA actuators 2009 , | | 2 |
| 64 | Effective behavior of composite structures made of thermoelastic constituents with cylindrical periodicity. <i>Procedia Engineering</i> , 2011 , 10, 3602-3607 | | 2 |
| 63 | Computational Micromechanics Analysis of the Effects of Interphase Regions and Bundle Packing on the Effective Electrical Properties of Carbon Nanotube-Polymer Nanocomposites 2009 , | | 2 |
| 62 | Micromechanics Modeling of Polymer Nanocomposites for Use as Multifunctional Materials 2008 , | | 2 |
| 61 | Experimentally validated numerical analysis of aerostructures incorporating shape memory alloys 2008 , | | 2 |
| 60 | Analysis of Clustering and Interphase Region Effects on the Electrical Conductivity of Carbon Nanotube-Polymer Nanocomposites via Computational Micromechanics 2008 , | | 2 |
| 59 | Simultaneous transformation and plastic deformation in shape memory alloys 2008 , | | 2 |
| 58 | Development of the fuel-powered compact SMA actuator: second-generation actuator 2003 , | | 2 |
| 57 | Identification of the transient response of SMA embedded flexible rods 1995 , | | 2 |
| 56 | Design of flexible rods with embedded SMA actuators 1993 , | | 2 |
| 55 | Effects of Testing Parameters on the Fatigue Performance NiTiHf High Temperature Shape Memory Alloys 2019 , | | 2 |
| 54 | Structural Lithium-Ion Battery Cathodes and Anodes Based on Branched Aramid Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 34807-34817 | 9.5 | 2 |
| 53 | A unified description of mechanical and actuation fatigue crack growth in shape memory alloys. <i>Acta Materialia</i> , 2021 , 217, 117155 | 8.4 | 2 |
| 52 | Effect of Triaxiality on Phase Transformation in Ni50.8Ti Notched Cylindrical Bars 2017 , | | 1 |

| | | | |
|----|--|-----|---|
| 51 | Fracture toughness of shape memory alloy actuators: effect of transformation-induced plasticity 2016, | | 1 |
| 50 | Multilevel Optimization of a Morphing Structure Incorporating Shape Memory Alloy Wires 2013, | | 1 |
| 49 | Modeling Rate Dependent Response of Shape Memory Alloys Using a Thermo-Mechanical Continuum Phase Field Approach 2015, | | 1 |
| 48 | Finite Element Analysis of Precipitation Effects on Ni-Rich NiTi Shape Memory Alloy Response. <i>Materials Science Forum, 2014, 792, 65-71</i> | 0.4 | 1 |
| 47 | On the Energy Release Rate During Global Thermo-Mechanically-Induced Phase Transformation in Shape Memory Alloys 2013, | | 1 |
| 46 | Microstructural Effects on Actuation Fatigue Life of Ni-rich NiTi Shape Memory Alloy Actuators 2011, | | 1 |
| 45 | 3D finite element analysis of indentation recovery due to the shape memory effect 2010, | | 1 |
| 44 | Shape Memory Alloys 2010, | | 1 |
| 43 | Constitutive Modeling of Magnetic Field-Induced Phase Transformation in NiMnCoIn Magnetic Shape Memory Alloys 2009, | | 1 |
| 42 | Design of a Multiple-Actuation Shape Memory Alloy Pipe Coupler: Material Development and Characterization 2012, | | 1 |
| 41 | Coexistence of Creep and Transformation in High Temperature Shape Memory Alloys 2009, | | 1 |
| 40 | Accurate Interpretation of Magnetic Shape Memory Alloy Experiments Utilizing Coupled Magnetostatic Analysis 2006, 311 | | 1 |
| 39 | Electrical and Thermal Conductivities of Carbon Nanotube-Epoxy Composites: Modeling and Characterization 2007, 245 | | 1 |
| 38 | Modeling of the Stress- and Magnetic Field-Induced Variant Reorientation in MSMA's 2006, | | 1 |
| 37 | Thermomechanical characterization of high temperature SMA actuators 2006, 6170, 306 | | 1 |
| 36 | Numerical studies of wave propagation in polycrystalline shape memory alloy rods 2003, 5053, 294 | | 1 |
| 35 | Parametric Study and Experimental Correlation of an SMA Based Damping and Passive Vibration Isolation Device 2002, 13 | | 1 |
| 34 | Influence of Heat Treatment on the Mechanical Properties and Damage Development in a SiC/Ti-15-3 MMC. <i>Journal of Engineering Materials and Technology, Transactions of the ASME, 2000, 122, 74-79</i> | 1.8 | 1 |

| | | | |
|----|--|-----|---|
| 33 | Modeling of oxidation and its effect on the crack growth resistance of titanium alloys. <i>Studies in Applied Mechanics</i> , 1998 , 46, 421-440 | | 1 |
| 32 | Behavior of SMA actuators under nonproportional thermomechanical loading 1998 , 3323, 312 | | 1 |
| 31 | Thermo-electro-mechanical modeling and structural response of a flexible beam with external SMA actuators 1995 , | | 1 |
| 30 | Boundary tractions in the gauge theory of dislocations and disclinations. <i>International Journal of Engineering Science</i> , 1986 , 24, 933-937 | 5.7 | 1 |
| 29 | Experimental determination of the compressive piezoresistive response of a free-standing film with application to reduced graphene oxide. <i>Journal of Applied Physics</i> , 2022 , 131, 035105 | 2.5 | 1 |
| 28 | Corrosion monitoring of NiTi alloy with small-amplitude potential intermodulation technique 2018 , | | 1 |
| 27 | Constitutive response of precipitation hardened Ni-Ti-Hf shape memory alloys through micromechanical modeling 2018 , | | 1 |
| 26 | Damage evolution during actuation fatigue in shape memory alloys (SPIE Best Student Paper Award) 2018 , | | 1 |
| 25 | Representative volume size in micromechanical modeling of precipitated SMAs 2019 , | | 1 |
| 24 | Preliminary Design and Numerical Investigation of SMA Torsion Tubes for the Actuation of Articulated Adaptive Panels 2021 , | | 1 |
| 23 | On the Fracture Response of Shape Memory Alloy Actuators 2015 , 165-180 | | 0 |
| 22 | ASMADA tool for automatic analysis of shape memory alloy thermal cycling data under constant stress. <i>Smart Materials and Structures</i> , 2021 , 30, 125003 | 3.4 | 0 |
| 21 | Quantification of Shape Memory Alloy Damping Capabilities Through the Prediction of Inherent Behavioral Aspects. <i>Shape Memory and Superelasticity</i> , 2021 , 7, 7-29 | 2.8 | 0 |
| 20 | Finite Strain Constitutive Modelling of Shape Memory Alloys Considering Partial Phase Transformation with Transformation-Induced Plasticity. <i>Shape Memory and Superelasticity</i> , 2021 , 7, 206-221 | 2.8 | 0 |
| 19 | Effects of microstructure and composition on constitutive response of high temperature shape memory alloys: micromechanical modeling using 3-D reconstructions with experimental validation. <i>Acta Materialia</i> , 2022 , 117929 | 8.4 | 0 |
| 18 | Micromechanical Modeling of Precipitation Hardened NiTiHf. <i>Materials Science Forum</i> , 2018 , 915, 147-156. | 4 | |
| 17 | Analysis of a nano-porous multi-layer film for thermal radiation barrier coatings. <i>Applied Nanoscience (Switzerland)</i> , 2011 , 1, 173-188 | 3.3 | |
| 16 | Characterization of Thermo-Electric Interface Material with Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1056, 1 | | |

- 15 A non-reflecting layer method for non-linear wave-type equations on unbounded domains with applications to shape memory alloy rods. *International Journal for Numerical Methods in Engineering*, **2005**, 62, 2053-2085 2.4
- 14 DOMAIN TRANSFORMATION PROBLEMS IN 2-D OXIDATION. *Journal of the Mechanical Behavior of Materials*, **2000**, 11, 275-294 1.9
- 13 Damage modeling of metal matrix composite laminates with cracked oxide surface layers. *Studies in Applied Mechanics*, **1996**, 57-80
- 12 On equivalence between the classical theory of dislocations and the gauge theory of defects. *International Journal of Engineering Science*, **1989**, 27, 737-738 5.7
- 11 Toward a self-consistent theory of elastoelectromagnetic neumann boundary value problems. *International Journal of Engineering Science*, **1986**, 24, 1629-1636 5.7
- 10 Plane harmonic waves in the linearized gauge theory of dislocations. *International Journal of Engineering Science*, **1987**, 25, 1323-1335 5.7
- 9 Surface Crack Development in Transformation Induced Fatigue of SMA Actuators **2006**, 1309-1310
- 8 Surface Crack Development In Transformation Induced Fatigue Of Sma Actuators **2006**, 209-222
- 7 Lie symmetry and conservation laws for magneto-static magnetic shape memory alloys system. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2020**, 476, 20200168^{2.4}
- 6 On the Fracture Response of Shape Memory Alloy Actuators **2015**, 165-180
- 5 Active Damping in Polymer-Based Nanocomposites. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 235-239 0.3
- 4 Transformation Induced Cyclic Behavior and Fatigue Properties of Nickel Rich NiTi Shape Memory Alloy Actuators 199-206
- 3 Two-dimensional finite element analysis of frictional sliding between a rigid cylinder and a shape memory alloy half-space. *Mechanics of Materials*, **2020**, 143, 103306 3.3
- 2 Special Issue Focus Mechanics and Physics of Active Materials and Systems. *Shape Memory and Superelasticity*, **2021**, 7, 5-6 2.8
- 1 Constitutive Modeling of Near-Equiatomic NiTi Shape Memory Alloys Considering Composition and Heat Treatment. *Materials Science Forum*, **2016**, 856, 78-84 0.4