

# Dimitris C Lagoudas

## List of Publications by Year in descending order

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320  
papers

12,672  
citations

23500

58  
h-index

28224

105  
g-index

332  
all docs

332  
docs citations

332  
times ranked

6752  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.1	793
2	Micromechanical analysis of the effective elastic properties of carbon nanotube reinforced composites. <i>Mechanics of Materials</i> , 2006, 38, 884-907.	1.7	425
3	Shape memory alloys, Part I: General properties and modeling of single crystals. <i>Mechanics of Materials</i> , 2006, 38, 391-429.	1.7	404
4	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.	4.1	363
5	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.	3.8	358
6	Origami-inspired active structures: a synthesis and review. <i>Smart Materials and Structures</i> , 2014, 23, 094001.	1.8	332
7	Shape memory alloys, Part II: Modeling of polycrystals. <i>Mechanics of Materials</i> , 2006, 38, 430-462.	1.7	303
8	Mechanical properties of surface-functionalized SWCNT/epoxy composites. <i>Carbon</i> , 2008, 46, 320-328.	5.4	250
9	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.	1.7	232
10	Thermomechanical Response of Shape Memory Composites. <i>Journal of Intelligent Material Systems and Structures</i> , 1994, 5, 333-346.	1.4	229
11	On thermomechanics and transformation surfaces of polycrystalline NiTi shape memory alloy material. <i>International Journal of Plasticity</i> , 2000, 16, 1309-1343.	4.1	212
12	A constitutive theory for shape memory polymers. Part I. <i>Journal of the Mechanics and Physics of Solids</i> , 2008, 56, 1752-1765.	2.3	212
13	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.	4.1	197
14	Modeling of graphene-polymer interfacial mechanical behavior using molecular dynamics. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2009, 17, 015002.	0.8	195
15	Hysteresis Modeling of SMA Actuators for Control Applications. <i>Journal of Intelligent Material Systems and Structures</i> , 1998, 9, 432-448.	1.4	194
16	Effective properties of three-phase electro-magneto-elastic composites. <i>International Journal of Engineering Science</i> , 2005, 43, 790-825.	2.7	192
17	Thermomechanical modeling of polycrystalline SMAs under cyclic loading, Part I: theoretical derivations. <i>International Journal of Engineering Science</i> , 1999, 37, 1089-1140.	2.7	190
18	Characterization of electrical and thermal properties of carbon nanotube/epoxy composites. <i>Composites Part B: Engineering</i> , 2014, 56, 611-620.	5.9	184

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19	On the numerical evaluation of Eshelby's tensor and its application to elastoplastic fibrous composites. <i>Computational Mechanics</i> , 1990, 7, 13-19.	2.2	181
20	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.	2.7	180
21	Influence of cold work and heat treatment on the shape memory effect and plastic strain development of NiTi. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 308, 161-175.	2.6	173
22	A Micromechanics Model for the Electrical Conductivity of Nanotube-Polymer Nanocomposites. <i>Journal of Composite Materials</i> , 2009, 43, 917-941.	1.2	163
23	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.	0.4	160
24	Review and perspectives: shape memory alloy composite systems. <i>Acta Mechanica</i> , 2015, 226, 3907-3960.	1.1	158
25	A constitutive theory for shape memory polymers. Part II. <i>Journal of the Mechanics and Physics of Solids</i> , 2008, 56, 1766-1778.	2.3	156
26	Effect of heat treatment on morphology, crystalline structure and photocatalysis properties of TiO <sub>2</sub> nanotubes on Ti substrate and freestanding membrane. <i>Applied Surface Science</i> , 2011, 257, 6451-6461.	3.1	149
27	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.	4.1	147
28	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.	2.7	143
29	A thermodynamical constitutive model for shape memory materials. Part II. The SMA composite material. <i>International Journal of Plasticity</i> , 1996, 12, 843-873.	4.1	134
30	On the stress-assisted magnetic-field-induced phase transformation in Ni <sub>2</sub> MnGa ferromagnetic shape memory alloys. <i>Acta Materialia</i> , 2007, 55, 4253-4269.	3.8	134
31	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.	2.7	128
32	Thermomechanical characterization of NiTiCu and NiTi SMA actuators: influence of plastic strains. <i>Smart Materials and Structures</i> , 2000, 9, 640-652.	1.8	123
33	Development of a shape memory alloy actuated biomimetic vehicle. <i>Smart Materials and Structures</i> , 2000, 9, 673-683.	1.8	116
34	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.	0.4	112
35	Processing of TiNi from elemental powders by hot isostatic pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 280, 334-348.	2.6	110
36	Elastoplastic behavior of metal matrix composites based on incremental plasticity and the Mori-Tanaka averaging scheme. <i>Computational Mechanics</i> , 1991, 8, 193-203.	2.2	101

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37	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.	1.8	101
38	Title is missing!. <i>Smart Materials and Structures</i> , 1997, 6, 265-277.	1.8	99
39	Computational Micromechanics of Clustering and Interphase Effects in Carbon Nanotube Composites. <i>Mechanics of Advanced Materials and Structures</i> , 2007, 14, 277-294.	1.5	93
40	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.	1.4	89
41	Energy Dissipation Due to Interfacial Slip in Nanocomposites Reinforced with Aligned Carbon Nanotubes. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9725-9735.	4.0	87
42	Modeling porous shape memory alloys using micromechanical averaging techniques. <i>Mechanics of Materials</i> , 2002, 34, 1-24.	1.7	85
43	Development of a Shape-Memory-Alloy Actuated Biomimetic Hydrofoil. <i>Journal of Intelligent Material Systems and Structures</i> , 2002, 13, 35-49.	1.4	84
44	Modeling of the thermomechanical behavior of porous shape memory alloys. <i>International Journal of Solids and Structures</i> , 2001, 38, 8653-8671.	1.3	83
45	Processing and Characterization of NiTi Porous SMA by Elevated Pressure Sintering. <i>Journal of Intelligent Material Systems and Structures</i> , 2002, 13, 837-850.	1.4	83
46	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.	1.0	83
47	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.	3.3	83
48	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.	1.3	82
49	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.	1.8	82
50	Dynamic loading of polycrystalline shape memory alloy rods. <i>Mechanics of Materials</i> , 2003, 35, 689-716.	1.7	66
51	Numerical Investigation of an Adaptive Vibration Absorber Using Shape Memory Alloys. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 67-80.	1.4	66
52	Highly Multifunctional Dopamine-Functionalized Reduced Graphene Oxide Supercapacitors. <i>Matter</i> , 2019, 1, 1532-1546.	5.0	66
53	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.	1.7	64
54	Effective mechanical properties of "fuzzy fiber" composites. <i>Composites Part B: Engineering</i> , 2012, 43, 2577-2593.	5.9	64

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55	Experimental and microstructural characterization of simultaneous creep, plasticity and phase transformation in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si21.gif" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Ti} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 50 \langle \text{mml:mtext} \rangle$ . Acta Materialia, 2010, 58, 1618-1628.	3.8	61
56	On the fracture toughness enhancement due to stress-induced phase transformation in shape memory alloys. International Journal of Plasticity, 2013, 50, 158-169.	4.1	59
57	Active flexible rods with embedded SMA fibers. Smart Materials and Structures, 1992, 1, 162-167.	1.8	58
58	Actuation of elastomeric rods with embedded two-way shape memory alloy actuators. Smart Materials and Structures, 1998, 7, 771-783.	1.8	56
59	Thermomechanical transformation fatigue of TiNiCu SMA actuators under a corrosive environment – Part I: Experimental results. International Journal of Fatigue, 2009, 31, 1571-1578.	2.8	53
60	Finite element analysis of the demagnetization effect and stress inhomogeneities in magnetic shape memory alloy samples. Philosophical Magazine, 2011, 91, 4126-4157.	0.7	51
61	Interlaminar fracture toughness of woven fabric composite laminates with carbon nanotube/epoxy interleaf films. Journal of Applied Polymer Science, 2011, 121, 2394-2405.	1.3	51
62	A mode I fracture analysis of a center-cracked infinite shape memory alloy plate under plane stress. International Journal of Fracture, 2012, 175, 151-166.	1.1	50
63	A constitutive model for cyclic actuation of high-temperature shape memory alloys. Mechanics of Materials, 2014, 68, 120-136.	1.7	49
64	Homogenization of aligned “fuzzy fiber” composites. International Journal of Solids and Structures, 2011, 48, 2668-2680.	1.3	46
65	Finite strain constitutive modeling for shape memory alloys considering transformation-induced plasticity and two-way shape memory effect. International Journal of Solids and Structures, 2021, 221, 42-59.	1.3	46
66	Electrical and mechanical properties of carbon nanotube–epoxy nanocomposites. Journal of Applied Polymer Science, 2010, 116, 191-202.	1.3	45
67	Impact induced phase transformation in shape memory alloys. Journal of the Mechanics and Physics of Solids, 2000, 48, 275-300.	2.3	44
68	Magnetic field-induced martensitic phase transformation in magnetic shape memory alloys: Modeling and experiments. Journal of the Mechanics and Physics of Solids, 2014, 69, 33-66.	2.3	44
69	Characterizing and modeling the free recovery and constrained recovery behavior of a polyurethane shape memory polymer. Smart Materials and Structures, 2011, 20, 094004.	1.8	43
70	Experimental investigation of simultaneous creep, plasticity and transformation of Ti50.5Pd30Ni19.5 high temperature shape memory alloy during cyclic actuation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 117-127.	2.6	43
71	Raman microscopy of residual strains in carbon nanotube/epoxy composites. Carbon, 2010, 48, 1750-1756.	5.4	42
72	Fracture toughness of NiTi – Towards establishing standard test methods for phase transforming materials. Acta Materialia, 2019, 162, 226-238.	3.8	42

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73	Compressive Failure due to Kinking of Fibrous Composites. <i>Journal of Composite Materials</i> , 1993, 27, 83-106.	1.2	41
74	Buckling instabilities of octadecylamine functionalized carbon nanotubes embedded in epoxy. <i>Composites Science and Technology</i> , 2006, 66, 128-136.	3.8	41
75	Effect of Thermal Interface on Heat Flow in Carbon Nanofiber Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 1061-1072.	4.0	40
76	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.	2.3	38
77	Effective thermoelastic properties of composites with periodicity in cylindrical coordinates. <i>International Journal of Solids and Structures</i> , 2012, 49, 2590-2603.	1.3	37
78	Modeling of shape memory alloy pseudoelastic spring elements using Preisach model for passive vibration isolation. , 2002, , .		36
79	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.	0.8	34
80	Staged epoxy/single-walled carbon nanotube nanocomposite thin films for composite reinforcement. <i>Journal of Applied Polymer Science</i> , 2009, 112, 290-298.	1.3	34
81	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.	3.8	34
82	Residual deformation of active structures with SMA actuators. <i>International Journal of Mechanical Sciences</i> , 1999, 41, 595-619.	3.6	33
83	On the Fracture Toughness of Pseudoelastic Shape Memory Alloys. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014, 81, .	1.1	33
84	The cylindrical bending of composite plates with piezoelectric and SMA layers. <i>Smart Materials and Structures</i> , 1994, 3, 309-317.	1.8	32
85	A Micromechanics Model for the Thermal Conductivity of Nanotube-Polymer Nanocomposites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2008, 75, .	1.1	32
86	Analysis of the finite deformation response of shape memory polymers: I. Thermomechanical characterization. <i>Smart Materials and Structures</i> , 2010, 19, 075005.	1.8	31
87	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.	1.8	31
88	Interfacial Engineering of Reduced Graphene Oxide for Aramid Nanofiber-Enabled Structural Supercapacitors. <i>Batteries and Supercaps</i> , 2019, 2, 464-472.	2.4	29
89	Self-foldable origami reflector antenna enabled by shape memory polymer actuation. <i>Smart Materials and Structures</i> , 2020, 29, 115011.	1.8	29
90	Material and spatial gauge theories of solids I. Gauge constructs, geometry, and kinematics. <i>International Journal of Engineering Science</i> , 1989, 27, 411-431.	2.7	27

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91	Effective Elastic Properties of Fiber-Reinforced Concrete with Random Fibers. Journal of Engineering Mechanics - ASCE, 1991, 117, 2931-2938.	1.6	27
92	<title>Simplified shape memory alloy (SMA) material model for vibration isolation</title>. , 2001, 4326, 452.		27
93	Fatigue life characterization of shape memory alloys undergoing thermomechanical cyclic loading. , 2003, , .		27
94	Design of space systems using shape memory alloys. , 2003, , .		27
95	Phenomenological modeling of ferromagnetic shape memory alloys. , 2004, , .		27
96	On the fracture toughness and stable crack growth in shape memory alloy actuators in the presence of transformation-induced plasticity. International Journal of Fracture, 2018, 209, 117-130.	1.1	27
97	Impact induced propagation of phase transformation in a shape memory alloy rod. International Journal of Plasticity, 2002, 18, 1447-1479.	4.1	26
98	Prediction of Cryogen Leak Rate through Damaged Composite Laminates. Journal of Composite Materials, 2007, 41, 41-71.	1.2	26
99	Lyapunov exponents estimation for hysteretic systems. International Journal of Solids and Structures, 2009, 46, 1269-1286.	1.3	26
100	Micromechanics of precipitated near-equiatomic Ni-rich NiTi shape memory alloys. Acta Mechanica, 2014, 225, 1167-1185.	1.1	26
101	Evolution of internal damage during actuation fatigue in shape memory alloys. International Journal of Fatigue, 2019, 124, 315-327.	2.8	26
102	Identification of energy dissipation mechanisms in CNT-reinforced nanocomposites. Nanotechnology, 2016, 27, 105707.	1.3	25
103	Phase transformation in free-standing SMA nanowires. Acta Materialia, 2011, 59, 1871-1880.	3.8	24
104	Stable Crack Growth During Thermal Actuation of Shape Memory Alloys. Shape Memory and Superelasticity, 2016, 2, 104-113.	1.1	24
105	A stochastic thermodynamic model for the gradual thermal transformation of SMA polycrystals. Smart Materials and Structures, 1997, 6, 235-250.	1.8	22
106	Highly ordered uniform single-crystal Bi nanowires: fabrication and characterization. Nanotechnology, 2007, 18, 395601.	1.3	21
107	Branched aramid nanofiber-polyaniline electrodes for structural energy storage. Nanoscale, 2020, 12, 16840-16850.	2.8	21
108	A validated model for induction heating of shape memory alloy actuators. Smart Materials and Structures, 2016, 25, 045022.	1.8	20

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109	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.	2.7	19
110	Shape Memory Alloys. <i>Smart Materials and Structures</i> , 2007, 16, .	1.8	19
111	Transformation characteristics of shape memory alloy composites. <i>Smart Materials and Structures</i> , 2011, 20, 094002.	1.8	19
112	Colloidal microstructures, transport, and impedance properties within interfacial microelectrodes. <i>Applied Physics Letters</i> , 2007, 90, 224102.	1.5	18
113	Structural reduced graphene oxide supercapacitors mechanically enhanced with tannic acid. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2301-2308.	2.5	18
114	Fracture toughness of fiber metal laminates: Carbon nanotube modified Tiâ€“polymerâ€“matrix composite interface. <i>Journal of Composite Materials</i> , 2014, 48, 2697-2710.	1.2	17
115	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.	1.4	17
116	Structural Lithium-Ion Battery Cathodes and Anodes Based on Branched Aramid Nanofibers. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 34807-34817.	4.0	17
117	<title>Thermodynamical constitutive model for the shape memory effect due to transformation and reorientation</title>. , 1994, , .		16
118	<title>Fuel-powered compact SMA actuator</title>. , 2002, , .		16
119	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.	1.4	16
120	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, .	1.1	16
121	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.	1.3	16
122	Stable crack growth in NiTi shape memory alloys: 3D finite element modeling and experimental validation. <i>Smart Materials and Structures</i> , 2019, 28, 064001.	1.8	16
123	Effective elastic moduli of two-phase transversely isotropic composites with aligned clustered fibers. <i>Acta Mechanica</i> , 2000, 145, 65-93.	1.1	15
124	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.	2.7	15
125	Modeling size effects on the transformation behavior of shape memory alloy micropillars. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 075001.	1.5	15
126	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.	1.4	15



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127	<title>Thermomechanical transformation fatigue of SMA actuators</title>. , 2000, , .		14
128	Modeling of the magnetic field-induced martensitic variant reorientation and the associated magnetic shape memory effect in MSMAs. , 2005, 5761, 454.		14
129	Processing and Characterization of Epoxy/SWCNT/Woven Fabric Composites. , 2006, , .		14
130	A unified description of mechanical and actuation fatigue crack growth in shape memory alloys. Acta Materialia, 2021, 217, 117155.	3.8	14
131	Dispersion relations for the linearized field equations of dislocation dynamics. International Journal of Engineering Science, 1988, 26, 837-846.	2.7	13
132	Transformation behavior in a thermomechanically cycled TiNiCu alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 2689-2693.	1.1	13
133	Development of a fuel-powered shape memory alloy actuator system: II. Fabrication and testing. Smart Materials and Structures, 2007, 16, S95-S107.	1.8	13
134	Phenomenological modeling of induced transformation anisotropy in shape memory alloy actuators. , 2012, , .		13
135	Mode I fracture toughness of hybrid co-cured Al-CFRP and NiTi-CFRP interfaces: An experimental and computational study. Composites Part A: Applied Science and Manufacturing, 2020, 135, 105925.	3.8	13
136	FATIGUE DAMAGE AND SHAKEDOWN IN METAL MATRIX COMPOSITE LAMINATES. Mechanics of Advanced Materials and Structures, 1994, 1, 171-202.	0.4	12
137	Variational theory of motion of curved, twisted and extensible elastic rods. International Journal of Engineering Science, 1994, 32, 569-577.	2.7	12
138	An experimental investigation of shape memory alloy springs for passive vibration isolation. , 2001, , .		12
139	Thermodynamics of multicomponent, elastic, crystalline solids. Mechanics of Materials, 2005, 37, 121-141.	1.7	12
140	Evolution of stresses in a simple class of oxidation problems. Acta Mechanica, 2006, 181, 231-255.	1.1	12
141	Thermomechanical Characterization and Modeling of Ni60Ti40 SMA for Actuated Chevrons. , 2006, , 281.		12
142	Dynamic magnetic shape memory alloys responses: Eddy current effect and Joule heating. Journal of Magnetism and Magnetic Materials, 2018, 465, 278-289.	1.0	12
143	Effects of a frictional interface on the load diffusion from a broken filament embedded in an elastic medium. International Journal of Solids and Structures, 1991, 27, 833-847.	1.3	11
144	Microtubules as mechanical force sensors. BioSystems, 2007, 88, 137-146.	0.9	11

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145	<title>Thermodynamic constitutive model for cyclic loading of shape memory alloy materials with application to two-way training</title>. , 1995, , .		10
146	<title>Intelligent design optimization of a shape-memory-alloy-actuated reconfigurable wing</title>. , 2000, 3984, 338.		10
147	In situdisplacement measurements and numerical predictions of embedded SMA transformation. Smart Materials and Structures, 2000, 9, 701-710.	1.8	10
148	Design of shape memory alloy pipe couplers: modeling and experiments. , 2012, , .		10
149	Reversible phase transformations in a shape memory alloy Inâ€“Ti nanowires observed by in situ transmission electron microscopy. Materials Letters, 2012, 70, 109-112.	1.3	10
150	Engineering design tools for shape memory alloy actuators: CASMART collaborative best practices and case studies. Journal of Intelligent Material Systems and Structures, 2019, 30, 2808-2830.	1.4	10
151	Micromechanics modeling of the elastic moduli of rGO/ANF nanocomposites. Acta Mechanica, 2019, 230, 265-280.	1.1	10
152	A gauge theory of defects in media with microstructure. International Journal of Engineering Science, 1989, 27, 237-249.	2.7	9
153	Modeling of oxidation and its effect on crack growth in titanium alloys. Computer Methods in Applied Mechanics and Engineering, 2000, 183, 35-50.	3.4	9
154	Effect of Processing and Loading on Equiatomic NiTi Fatigue Life and Localized Failure Mechanisms. , 2013, , .		9
155	Fabrication, characterization and micromechanics modeling of the electrical conductivity of reduced graphene oxide/aramid nanofiber nanocomposites. Smart Materials and Structures, 2019, 28, 094001.	1.8	9
156	A gauge theory of damage. International Journal of Engineering Science, 1991, 29, 597-606.	2.7	8
157	Solution Behavior of the Transient Heat Transfer Problem in Thermoelectric Shape Memory Alloy Actuators. SIAM Journal on Applied Mathematics, 1997, 57, 34-52.	0.8	8
158	Thermomechanical Characterization of SMA Actuators Under Cyclic Loading. , 2003, , 211.		8
159	Arrays of micro-electrodes and electromagnets for processing of electro-magneto-elastic multifunctional composite materials. , 2003, , .		8
160	Nonlinear Vibration of a One-Degree of Freedom Shape Memory Alloy Oscillator: A Numerical-experimental Investigation. , 2005, , .		8
161	Application of a magnetic SMA constitutive model in the analysis of magnetomechanical boundary value problems. , 2006, , .		8
162	Characterization and 3-D modeling of Ni60Ti SMA for actuation of a variable geometry jet engine chevron. , 2007, , .		8

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163	Thermomechanical cyclic loading and fatigue life characterization of nickel rich NiTi shape-memory alloy actuators. Proceedings of SPIE, 2008, , .	0.8	8
164	Thermomechanical characterization of the nonlinear rate-dependent response of shape memory polymers. Proceedings of SPIE, 2008, , .	0.8	8
165	Influence of the Latent Heat of Transformation and Thermomechanical Coupling on the Performance of Shape Memory Alloy Actuators. , 2012, , .		8
166	A Finite Strain Constitutive Model for Martensitic Transformation in Shape Memory Alloys Based on Logarithmic Strain. , 2017, , .		8
167	Predictive Modeling of the Constitutive Response of Precipitation Hardened Ni-Rich NiTi. Shape Memory and Superelasticity, 2017, 3, 9-23.	1.1	8
168	Null Lagrangians, admissible tractions, and finite element methods. International Journal of Solids and Structures, 1986, 22, 659-672.	1.3	7
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