

James G Boyd

List of Publications by Year in descending order

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26
papers

593
citations

933447

10
h-index

713466

21
g-index

27
all docs

27
docs citations

27
times ranked

750
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective properties of three-phase electro-magneto-elastic composites. <i>International Journal of Engineering Science</i> , 2005, 43, 790-825.	5.0	192
2	Mechanically Strong Graphene/Aramid Nanofiber Composite Electrodes for Structural Energy and Power. <i>ACS Nano</i> , 2017, 11, 6682-6690.	14.6	190
3	Promising Trade-offs Between Energy Storage and Load Bearing in Carbon Nanofibers as Structural Energy Storage Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1901425.	14.9	47
4	Interfacial Engineering of Reduced Graphene Oxide for Aramid Nanofiber-enabled Structural Supercapacitors. <i>Batteries and Supercaps</i> , 2019, 2, 464-472.	4.7	29
5	A validated model for induction heating of shape memory alloy actuators. <i>Smart Materials and Structures</i> , 2016, 25, 045022.	3.5	20
6	A thermodynamic field theory for anodic bonding of micro electro-mechanical systems (MEMS). <i>International Journal of Engineering Science</i> , 2000, 38, 135-158.	5.0	17
7	Mechanics of Emulsion Electrospun Porous Carbon Fibers as Building Blocks of Multifunctional Materials. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38310-38318.	8.0	17
8	Effect of electrode pore geometry modeled using Nernst-Planck-Poisson-modified Stern layer model. <i>Computational Mechanics</i> , 2009, 43, 461-475.	4.0	15
9	Nanoscale electrostatic actuators in liquid electrolytes. <i>Journal of Colloid and Interface Science</i> , 2006, 301, 542-548.	9.4	12
10	Deflection and pull-in instability of nanoscale beams in liquid electrolytes. <i>Journal of Colloid and Interface Science</i> , 2011, 356, 387-394.	9.4	10
11	Micromechanics modeling of the elastic moduli of rGO/ANF nanocomposites. <i>Acta Mechanica</i> , 2019, 230, 265-280.	2.1	10
12	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.	3.5	9
13	Porous fibres with encapsulated functional materials and tunable release. <i>Journal of Microencapsulation</i> , 2017, 34, 383-394.	2.8	5
14	Modeling of mechanical behavior of microcantilever due to intrinsic strain during deposition. <i>Journal of Mechanical Science and Technology</i> , 2006, 20, 1646-1652.	1.5	4
15	Analytical and experimental study of mismatch strain-induced microcantilever behavior during deposition. <i>Journal of Mechanical Science and Technology</i> , 2007, 21, 415-420.	1.5	3
16	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.	2.5	3
17	Multifunctional efficiency metric for structural supercapacitors. <i>Multifunctional Materials</i> , 2020, 3, 044002.	3.7	3
18	Methodology for using residual stresses for self-assembly during deposition and etching of microstructures under external load. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 452-461.	2.6	2

#	ARTICLE	IF	CITATIONS
19	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, .	2.5	2
20	A finite-element formulation for anodic bonding. <i>Smart Materials and Structures</i> , 2000, 9, 737-750.	3.5	1
21	Intrinsic stress, mismatch strain, and self-assembly during deposition of thin films subjected to an externally applied force. <i>Journal of Mechanical Science and Technology</i> , 2008, 22, 2048-2055.	1.5	1
22	Processing-Mechanical Property Relationship of Hollow and Porous Carbon Fibers Fabricated by Coaxial Electrospinning. , 2018, , .		1
23	<title>Finite element analysis of electric-field-assisted bonding</title>. , 2000, , .		0
24	The effect of electrodeposition process parameters on residual stress-induced self-assembly under external load. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 115014.	2.6	0
25	Two-dimensional finite element analysis of frictional sliding between a rigid cylinder and a shape memory alloy half-space. <i>Mechanics of Materials</i> , 2020, 143, 103306.	3.2	0
26	Encapsulation and on-demand release of functional materials from conductive nanofibers via electrical signals. <i>Multifunctional Materials</i> , 2022, 5, 015003.	3.7	0