Craig A Steeves

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2963607/publications.pdf

Version: 2024-02-01

31	1,142	516681 16	610883 24
papers	citations	h-index	g-index

31	31	31	896
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mixed-dimensional modeling of structures with thin coatings using rotation-free elements. Computers and Structures, 2020, 231, 106224.	4.4	1
2	Robust lightweight multifunctional thermally tailored lattices. Smart Materials and Structures, 2020, 29, 035011.	3.5	2
3	Optimal curved fibre orientations of a composite panel with cutout for improved buckling load using the Efficient Global Optimization algorithm. Engineering Optimization, 2017, 49, 1354-1372.	2.6	24
4	Bimaterial lattices as thermal adapters and actuators. Smart Materials and Structures, 2016, 25, 115030.	3.5	12
5	Adaptive bimaterial lattices to mitigate thermal expansion mismatch stresses in satellite structures. Acta Astronautica, 2015, 113, 132-141.	3.2	59
6	Optimization of 3D lattice cores in composite sandwich structures. Journal of Composite Materials, 2015, 49, 2041-2055.	2.4	7
7	Curved fiber paths optimization of a composite cylindrical shell via Kriging-based approach. Journal of Composite Materials, 2015, 49, 3583-3597.	2.4	19
8	Effect of grain size on the optimal architecture of electrodeposited metal/polymer microtrusses. Journal of Sandwich Structures and Materials, 2014, 16, 251-271.	3.5	5
9	Optimisation of a Laminated Composite Cylindrical Shell With Curvilinear Fibre Paths Using a Surrogate-Based Approach. , 2014, , .		0
10	Bimaterial lattices with anisotropic thermal expansion. Journal of Mechanics of Materials and Structures, 2014, 9, 227-244.	0.6	26
11	Optimizing sandwich beams for strength and stiffness. Journal of Sandwich Structures and Materials, 2012, 14, 573-595.	3.5	12
12	Thermal expansion and recrystallization of amorphous Al and Ti: A molecular dynamics study. Journal of Non-Crystalline Solids, 2011, 357, 3765-3773.	3.1	20
13	Optimization of Thermal Protection Systems Utilizing Sandwich Structures with Low Coefficient of Thermal Expansion Lattice Hot Faces. Journal of the American Ceramic Society, 2011, 94, s55.	3.8	19
14	Feasibility of Metallic Structural Heat Pipes as Sharp Leading Edges for Hypersonic Vehicles. Journal of Applied Mechanics, Transactions ASME, 2009, 76, .	2.2	44
15	Design and Manufacture of a Morphing Structure for a Shape-Adaptive Supersonic Wind Tunnel Nozzle. Journal of Applied Mechanics, Transactions ASME, 2009, 76, .	2.2	3
16	Experimental investigation of the thermal properties of tailored expansion lattices. International Journal of Mechanics and Materials in Design, 2009, 5, 195-202.	3.0	49
17	The Influence of Coatings on the Performance of Structural Heat Pipes for Hypersonic Leading Edges. Journal of the American Ceramic Society, 2009, 92, 553-555.	3.8	20
18	Design and Test of a Morphing Supersonic Nozzle. , 2008, , .		1

#	Article	IF	Citations
19	A Heat Plate Leading Edge for Hypersonic Vehicles. , 2008, , .		3
20	A Magnetohydrodynamic Power Panel for Space Reentry Vehicles. Journal of Applied Mechanics, Transactions ASME, 2007, 74, 57-64.	2.2	6
21	Design of a Robust, Multifunctional Thermal Protection System Incorporating Zero Expansion Lattices. , 2007, , .		5
22	Metallic Structural Heat Pipes as Sharp Leading Edges for Mach 7 Vehicles. , 2007, , .		3
23	Concepts for structurally robust materials that combine low thermal expansion with high stiffness. Journal of the Mechanics and Physics of Solids, 2007, 55, 1803-1822.	4.8	161
24	Membrane thickness design of implantable bio-MEMS sensors for the in-situ monitoring of blood flow. Journal of Materials Science: Materials in Medicine, 2007, 18, 25-37.	3.6	21
25	In-plane properties of composite laminates with through-thickness pin reinforcement. International Journal of Solids and Structures, 2006, 43, 3197-3212.	2.7	124
26	Compressive strength of composite laminates with terminated internal plies. Composites Part A: Applied Science and Manufacturing, 2005, 36, 798-805.	7.6	30
27	Electrode design for magnetohydrodynamic power panels on reentering space vehicles. , 2005, , .		1
28	Modeling of Near-Electrode Layers for MHD Power Panels on Reentering Space Vehicles. , 2005, , .		0
29	Material selection in sandwich beam construction. Scripta Materialia, 2004, 50, 1335-1339.	5.2	79
30	Collapse mechanisms of sandwich beams with composite faces and a foam core, loaded in three-point bending. Part I: analytical models and minimum weight design. International Journal of Mechanical Sciences, 2004, 46, 561-583.	6.7	211
31	Collapse mechanisms of sandwich beams with composite faces and a foam core, loaded in three-point bending. Part II: experimental investigation and numerical modelling. International Journal of Mechanical Sciences, 2004, 46, 585-608.	6.7	175