



Dr G N Dayananda

Chief Scientist, National Aerospace Laboratories
Shape Memory Alloys & Polymers, Composites

Google Scholar

Citation indices	All	Since 2011
Citations	246	162
h-index	6	6
i10-index	5	4

Title	1–20	Cited by	Year
Recovery stress generation in shape memory Ti 50 Ni 45 Cu 5 thin wires		83	2000
P Šittner, D Vokoun, GN Dayananda, R Stalmans Materials Science and Engineering: A 286 (2), 298-311			
Electric resistance variation of NiTi shape memory alloy wires in thermomechanical tests: Experiments and simulation		49	2008
V Novák, P Šittner, GN Dayananda, FM Braz-Fernandes, KK Mahesh Materials Science and Engineering: A 481, 127-133			
Effect of strain rate on properties of superelastic NiTi thin wires		44	2008
GN Dayananda, MS Rao Materials Science and Engineering: A 486 (1), 96-103			
Experimental evaluation of a shape memory alloy wire actuator with a modulated adaptive controller for position control		15	2011
P Senthilkumar, GN Dayananda, M Umapathy, V Shankar Smart Materials and Structures 21 (1), 015015			
Shape memory alloy based smart landing gear for an airship		10	2007
GN Dayananda, B Varughese, MS Rao Journal of Aircraft 44 (5), 1469-1477			
Characterization of shape memory behaviour of CTBN-epoxy resin system		9	2012
A Revathi, S Rao, S Srihari, GN Dayananda Journal of Polymer Research 19 (6), 1-7			
Effect of strain on the thermomechanical behavior of epoxy based shape memory polymers		6	2013
A Revathi, S Rao, KV Rao, MM Singh, MS Murugan, S Srihari, ... Journal of Polymer Research 20 (5), 1-10			
Smart aerodynamic surface for a typical military aircraft using shape memory elements		4	2011
S Jayasankar, PS Kumar, B Varughese, B Ramanaiah, S Vishwanath, ... Journal of Aircraft 48 (6), 1968-1977			
Development of SMA based actuator mechanisms for deployment of control surfaces		4	2005
GN Dayananda, SP Kumar, SM Rao			
Development and wind tunnel evaluation of a shape memory alloy based trim tab actuator for a civil aircraft		3	2013
P Senthilkumar, S Jayasankar, VL Sateesh, MS Kamaleshaiah, ...			

[Autoclaves for aerospace applications: Issues and challenges](#)

AR Upadhyaya, GN Dayananda, GM Kamalakannan, J Ramaswamy Setty, ...
International Journal of Aerospace Engineering 2011

3 2011

[A posteriori processing for estimation of low cycle fatigue failure in SESMA wires](#)

VL Sateesh, P Senthilkumar, GN Dayananda
Materials Science and Engineering: A 594, 212-217

2 2014

[Grid based construction of a composite micro air vehicle airframe](#)

D Thulasi Durai, SR Viswamurthy, S Balasubramani, C Rohit, ...
Journal of Aerospace Sciences and Technologies 62 (2), 132-140

2 2010

[NiTi Super Elastic Shape Memory Alloys for Energy Dissipation in Smart Systems for Aerospace Applications](#)

GN Dayananda
National Aerospace Laboratories

2 2008

[Development of an SMA based smart landing gear for rotorcraft and other similar applications](#)

GN Dayananda, B Varughese, T Harish Kumar, M Subba Rao
Proceedings of Fourth International Conference on Smart Materials ...

2 2005

[Development of electronic actuation system for shape-memory-alloy-based aerospace structures](#)

V Shankar, GN Dayananda, PS Kumar, MS Rao, R Balasubramaniam
Smart Materials, Structures, and Systems, 914-921

2 2003

[The design of a NI-TI based Shape Memory Alloy actuator](#)

GN Dayananda, V Shankar
Journal of Aerospace Sciences & Technologies 55 (4), 268-274

2 2003

[Modeling the behaviour of an advanced material based smart landing gear system for aerospace vehicles](#)

B Varughese, GN Dayananda, MS Rao
Smart Devices: Modeling of Material Systems: An International Workshop 1029 ...

1 2008

[Development of a door steering mechanism for a large autoclave](#)

SJ Ramaswamy, GN Dayananda, M Subba Rao

1 2007

[Hybrid Composites for Morphing Applications](#)

S Jayasankar, GN Dayananda, M Subbarao

1 2007

Dates and citation counts are estimated and are determined automatically by a computer program.