Reginald F Hamilton

List of Publications by Year
in descending order

22 papers	1,079 citations	1040056 9 h-index	752698 20 g-index
22 all docs	22 docs citations	22 times ranked	851 citing authors

#	Article	IF	Citations
1	Ni-Concentration Dependence of Directed Energy Deposited NiTi Alloy Microstructures. Shape Memory and Superelasticity, 2019, 5, 182-187.	2.2	12
2	Target shape optimization of functionally graded shape memory alloy compliant mechanisms. Journal of Intelligent Material Systems and Structures, 2019, 30, 1385-1396.	2.5	5
3	Correlating microstructure and superelasticity of directed energy deposition additive manufactured Ni-rich NiTi alloys. Journal of Alloys and Compounds, 2018, 739, 712-722.	5.5	67
4	Functional fatigue of submicrometer NiTi shape memory alloy thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, 040601.	2.1	2
5	Multi-scale shape memory effect recovery in NiTi alloys additive manufactured by selective laser melting and laser directed energy deposition. Journal of Materials Processing Technology, 2017, 250, 55-64.	6.3	99
6	Crystallization of nanoscale NiTi alloy thin films using rapid thermal annealing. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, 06KK01.	1.2	7
7	Narrow thermal hysteresis of NiTi shape memory alloy thin films with submicrometer thickness. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	2.1	10
8	Target Shape Optimization of Functionally Graded Shape Memory Alloy Compliant Mechanism. , 2016, , .		4
9	Crystallization and microstructure evolution of nanoscale NiTi thin films prepared by biased target ion beam deposition. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, .	1.2	6
10	Molecular tandem repeat strategy for elucidating mechanical properties of high-strength proteins. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6478-6483.	7.1	63
11	Fabrication of NiTi through additive manufacturing: A review. Progress in Materials Science, 2016, 83, 630-663.	32.8	555
12	Anisotropic microstructure and superelasticity of additive manufactured NiTi alloy bulk builds using laser directed energy deposition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 674, 125-134.	5.6	85
13	Biased Target Ion Beam Deposition and Nanoskiving for Fabricating NiTi Alloy Nanowires. Shape Memory and Superelasticity, 2016, 2, 330-336.	2.2	8
14	Structure and interfacial analysis of nanoscale TiNi thin film prepared by biased target ion beam deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	2.1	9
15	Shape Memory Effect in Cast Versus Deformation-Processed NiTiNb Alloys. Shape Memory and Superelasticity, 2015, 1, 117-123.	2.2	10
16	Free-standing NiTi alloy nanowires fabricated by nanoskiving. Nanoscale, 2015, 7, 13373-13378.	5.6	7
17	Spatial characterization of the thermal-induced phase transformation throughout as-deposited additive manufactured NiTi bulk builds. Scripta Materialia, 2015, 101, 56-59.	5.2	69
18	The Impact of Martensite Deformation on Shape Memory Effect Recovery Strain Evolution. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 3481-3489.	2.2	6

#	Article	IF	Citations
19	Feasibility of self-pre-stressing concrete members using shape memory alloys. Journal of Intelligent Material Systems and Structures, 2015, 26, 2500-2514.	2.5	25
20	Self-Post-Tensioning for Concrete Beams Using Shape Memory Alloys. , 2014, , .		2
21	Elastic and Irreversible Energies of a Two-Stage Martensitic Transformation in NiTi Utilizing Calorimetric Measurements. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 2732-2740.	2.2	2
22	NiTi thin films prepared by biased target ion beam deposition co-sputtering from elemental Ni and Ti targets. Thin Solid Films, 2014, 570, 1-6.	1.8	26