

Ruben Santamarta

List of Publications by Year in descending order

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1449
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#	ARTICLE	IF	CITATIONS
1	Strain glass state in Ni-rich Ni-Ti-Zr shape memory alloys. <i>Acta Materialia</i> , 2021, 218, 117232.	7.9	21
2	Effects of training on the thermomechanical behavior of NiTiHf and NiTiZr high temperature shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 794, 139857.	5.6	33
3	IMPROVEMENT OF THE LABORATORY SKILLS ON FIRST-YEAR ENGINEERING STUDENTS AT THE UNIVERSITY OF THE BALEARIC ISLANDS (SPAIN) BY CHANGING SOME TEACHING STRATEGIES OF THE LABORATORY LESSONS. , 2020, , .		1
4	Role of microstructure on the actuation fatigue performance of Ni-Rich NiTiHf high temperature shape memory alloys. <i>Acta Materialia</i> , 2019, 175, 107-120.	7.9	44
5	Structure and growth of core-shell nanoprecipitates in Al-Er-Sc-Zr-V-Si high-temperature alloys. <i>Journal of Materials Science</i> , 2019, 54, 1857-1871.	3.7	12
6	Two way shape memory effect in NiTiHf high temperature shape memory alloy tubes. <i>Acta Materialia</i> , 2019, 163, 1-13.	7.9	47
7	A CRITICAL REVIEW OF THE ORGANIZATION, METHODOLOGY AND ASSESSMENT IN THE FIRST-YEAR LABORATORY LECTURES OF SCIENCE AND ENGINEERING DEGREES AT THE UNIVERSITY OF THE BALEARIC ISLANDS (SPAIN). <i>EDULEARN Proceedings</i> , 2019, , .	0.0	2
8	H-Phase Precipitation and Martensitic Transformation in Ni-rich Ni-Ti-Hf and Ni-Ti-Zr High-Temperature Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , 2018, 4, 85-92.	2.2	32
9	On the microstructural origins of martensitic transformation arrest in a NiCoMnIn magnetic shape memory alloy. <i>Acta Materialia</i> , 2018, 142, 95-106.	7.9	67
10	Microstructural design considerations in Fe-Mn-Al-Ni shape memory alloy wires: Effects of natural aging. <i>Scripta Materialia</i> , 2018, 142, 153-157.	5.2	36
11	Stability of a Ni-rich Ni-Ti-Zr high temperature shape memory alloy upon low temperature aging and thermal cycling. <i>Scripta Materialia</i> , 2016, 124, 47-50.	5.2	37
12	Effects of Ni content on the shape memory properties and microstructure of Ni-rich NiTi-20Hf alloys. <i>Smart Materials and Structures</i> , 2016, 25, 095029.	3.5	32
13	Relationship between crystallographic compatibility and thermal hysteresis in Ni-rich NiTiHf and NiTiZr high temperature shape memory alloys. <i>Acta Materialia</i> , 2016, 121, 374-383.	7.9	89
14	Role of nano-precipitation on the microstructure and shape memory characteristics of a new Ni _{50.3} Ti _{34.7} Zr ₁₅ shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 655, 193-203.	5.6	39
15	Effect of Thermal Treatments on Ni-Mn-Ga and Ni-Rich Ni-Ti-Hf/Zr High-Temperature Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , 2015, 1, 418-428.	2.2	13
16	Solidification process and effect of thermal treatments on Ni-Co-Mn-Sn metamagnetic shape memory alloys. <i>Acta Materialia</i> , 2015, 93, 164-174.	7.9	34
17	Thermal stability and microstructure of Ni-Mn-Ga-Cu high temperature shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2015, 648, 903-911.	5.5	19
18	Microstructural characterization and shape memory characteristics of the Ni _{50.3} Ti _{34.7} Hf ₁₅ shape memory alloy. <i>Acta Materialia</i> , 2015, 83, 48-60.	7.9	115

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19	Structural anelasticity, elasticity and broken ergodicity in Ni-Ti shape memory alloys. Acta Materialia, 2014, 73, 275-286.	7.9	32
20	The effect of annealing on the transformation and the microstructure of Mn ¹ Cr CoGe alloys. Materials Characterization, 2014, 93, 24-31.	4.4	20
21	Microstructural characterization and superelastic response of a Ni _{50.3} Ti _{29.7} Zr ₂₀ high-temperature shape memory alloy. Scripta Materialia, 2014, 81, 12-15.	5.2	54
22	TEM study of structural and microstructural characteristics of a precipitate phase in Ni-rich Ni-Ti-Hf and Ni-Ti-Zr shape memory alloys. Acta Materialia, 2013, 61, 6191-6206.	7.9	169
23	Effect of precipitation on the microstructure and the shape memory response of the Ni _{50.3} Ti _{29.7} Zr ₂₀ high temperature shape memory alloy. Scripta Materialia, 2013, 69, 354-357.	5.2	74
24	Mechanical Spectroscopy of Hyperstabilized Martensites. Solid State Phenomena, 2012, 184, 355-360.	0.3	7
25	EFFECT OF AGING ON THE MARTENSITIC TRANSFORMATION CHARACTERISTICS OF A Ni-RICH NiTiHf HIGH TEMPERATURE SHAPE MEMORY ALLOY. Functional Materials Letters, 2012, 05, 1250038.	1.2	69
26	HYPERSTABILIZATION OF MARTENSITES. Functional Materials Letters, 2012, 05, 1250005.	1.2	8
27	Entropy change linked to the magnetic field induced Morin transition in Hematite nanoparticles. Applied Physics Letters, 2012, 100, 063102.	3.3	30
28	Isothermal and athermal martensitic transformations in Ni-Ti shape memory alloys. Acta Materialia, 2012, 60, 2578-2592.	7.9	49
29	Isothermal and athermal martensitic transformations in the B ₂ -R ₁₉ sequence in Ni-Ti shape memory alloys. Scripta Materialia, 2010, 63, 1240-1243.	5.2	27
30	Impact fatigue behavior of superelastic NiTi shape memory alloy wires. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 764-769.	5.6	21
31	Structure investigations of ferromagnetic Co-Ni-Al alloys obtained by powder metallurgy. Journal of Microscopy, 2010, 237, 374-378.	1.8	6
32	Thermal and microstructural evolution under ageing of several high-temperature Ni-Mn-Ga alloys. Intermetallics, 2010, 18, 977-983.	3.9	34
33	Effect of precipitates on the stress-strain behavior under compression in polycrystalline Ni-Fe-Ga alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 481-482, 101-104.	5.6	20
34	Thermal stability and ordering effects in Ni-Fe-Ga ferromagnetic shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 481-482, 262-265.	5.6	14
35	Ferromagnetic shape memory alloys: Alternatives to Ni-Mn-Ga. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 481-482, 57-65.	5.6	119
36	Microstructure changes in two phase $\beta^2 + \beta^3$ Co-Ni-Al ferromagnetic shape memory alloys in relation to Al/Co ratio. European Physical Journal: Special Topics, 2008, 158, 137-142.	2.6	12

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37	Thermal stability of high-temperature Ni-Mn-Ga alloys. Scripta Materialia, 2008, 58, 259-262.	5.2	38
38	Unexpected ordering behaviour of Pt3Al intermetallic precipitates. Journal of Alloys and Compounds, 2007, 432, 96-102.	5.5	18
39	Effect of ageing in Ni-Fe-Ga ferromagnetic shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 919-922.	5.6	14
40	Structure of the layered martensitic phases of Ni-Mn-Ga alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 931-934.	5.6	34
41	Effect of ageing on the martensitic transformation of Ni-Fe-Ga alloys. Scripta Materialia, 2006, 54, 1105-1109.	5.2	53
42	Effect of atomic order on the martensitic transformation of Ni-Fe-Ga alloys. Scripta Materialia, 2006, 54, 1985-1989.	5.2	79
43	Long-period martensitic structures of Ni-Mn-Ga alloys studied by high-resolution transmission electron microscopy. Journal of Applied Physics, 2005, 97, 083516.	2.5	84
44	Effect of amorphous-crystalline interfaces on the martensitic transformation in Ti50Ni25Cu25. Scripta Materialia, 2004, 50, 1423-1427.	5.2	35
45	Applications of advanced transmission electron microscopic techniques to Ni-Ti based shape memory materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 378, 11-15.	5.6	9
46	Structure of multi-grain spherical particles in an amorphous Ti50Ni25Cu25 melt-spun ribbon. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 378, 143-147.	5.6	4
47	Shape memory properties of Ni-Ti based melt-spun ribbons. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 761-770.	2.2	50
48	Twinned b.c.c. spherical particles in a partially crystallized Ti50Ni25Cu25 melt-spun ribbon. Intermetallics, 2004, 12, 341-348.	3.9	12
49	Crystallization in Partially Amorphous Ni ₅₀ Ti ₃₂ Hf ₁₈ Melt Spun Ribbon. Materials Transactions, 2004, 45, 1811-1818.	1.2	8
50	HREM study of different martensitic phases in Ni-Mn-Ga alloys. Materials Chemistry and Physics, 2003, 81, 457-459.	4.0	34
51	Microstructure of a Partially Crystallised Ti ₅₀ Ni ₂₅ Cu ₂₅ Melt-Spun Ribbon. Materials Transactions, 2003, 44, 1760-1767.	1.2	21
52	Thermal martensite stabilization in Ni-Ti based alloys. European Physical Journal Special Topics, 2003, 112, 647-650.	0.2	2
53	Thermo-mechanical behaviour of a Ni-Ti-Cu melt spun alloy. European Physical Journal Special Topics, 2001, 11, Pr8-351-Pr8-356.	0.2	6
54	AGEING EFFECTS IN Ni-Ti BASED SHAPE MEMORY ALLOYS. , 2001, , .		3

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55	Crystal structure of martensitic phases in Ni-Mn-Ga shape memory alloys. Acta Materialia, 2000, 48, 3027-3038.	7.9	601
56	Martensite stabilisation in Ni ₅₀ Ti _{32.2} Hf _{17.7} . Scripta Materialia, 1999, 41, 867-872.	5.2	36
57	Strain-Glass Revisited. Materials Science Forum, 0, 738-739, 274-275.	0.3	5
58	Ageing Behaviour of High-Temperature Ni-Mn-Ga Alloys. , 0, , 633-638.		0