Ruben Santamarta

List of Publications by Year in descending order

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58 papers

2,584 citations

29 h-index 50 g-index

58 all docs

58 docs citations 58 times ranked 1449 citing authors

#	Article	IF	Citations
1	Crystal structure of martensitic phases in Ni–Mn–Ga shape memory alloys. Acta Materialia, 2000, 48, 3027-3038.	7.9	601
2	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
3	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
4	Microstructural characterization and shape memory characteristics of the Ni50.3Ti34.7Hf15 shape memory alloy. Acta Materialia, 2015, 83, 48-60.	7.9	115
5	Relationship between crystallographic compatibility and thermal hysteresis in Ni-rich NiTiHf and NiTiZr high temperature shape memory alloys. Acta Materialia, 2016, 121, 374-383.	7.9	89
6	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
7	Effect of atomic order on the martensitic transformation of Ni–Fe–Ga alloys. Scripta Materialia, 2006, 54, 1985-1989.	5.2	79
8	Effect of precipitation on the microstructure and the shape memory response of the Ni50.3Ti29.7Zr20 high temperature shape memory alloy. Scripta Materialia, 2013, 69, 354-357.	5.2	74
9	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
10	On the microstructural origins of martensitic transformation arrest in a NiCoMnIn magnetic shape memory alloy. Acta Materialia, 2018, 142, 95-106.	7.9	67
11	Microstructural characterization and superelastic response of a Ni50.3Ti29.7Zr20 high-temperature shape memory alloy. Scripta Materialia, 2014, 81, 12-15.	5.2	54
12	Effect of ageing on the martensitic transformation of Ni–Fe–Ga alloys. Scripta Materialia, 2006, 54, 1105-1109.	5.2	53
13	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
14	Isothermal and athermal martensitic transformations in Ni–Ti shape memory alloys. Acta Materialia, 2012, 60, 2578-2592.	7.9	49
15	Two way shape memory effect in NiTiHf high temperature shape memory alloy tubes. Acta Materialia, 2019, 163, 1-13.	7.9	47
16	Role of microstructure on the actuation fatigue performance of Ni-Rich NiTiHf high temperature shape memory alloys. Acta Materialia, 2019, 175, 107-120.	7.9	44
17	Role of nano-precipitation on the microstructure and shape memory characteristics of a new Ni50.3Ti34.7Zr15 shape memory alloy. Materials Science & Droperties, Microstructure and Processing, 2016, 655, 193-203.	5.6	39
18	Thermal stability of high-temperature Ni–Mn–Ga alloys. Scripta Materialia, 2008, 58, 259-262.	5.2	38

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19	Stability of a Ni-rich Ni-Ti-Zr high temperature shape memory alloy upon low temperature aging and thermal cycling. Scripta Materialia, 2016, 124, 47-50.	5.2	37
20	Martensite stabilisation in Ni50Ti32.2Hf17.7. Scripta Materialia, 1999, 41, 867-872.	5.2	36
21	Microstructural design considerations in Fe-Mn-Al-Ni shape memory alloy wires: Effects of natural aging. Scripta Materialia, 2018, 142, 153-157.	5.2	36
22	Effect of amorphous–crystalline interfaces on the martensitic transformation in Ti50Ni25Cu25. Scripta Materialia, 2004, 50, 1423-1427.	5.2	35
23	HREM study of different martensitic phases in Ni–Mn–Ga alloys. Materials Chemistry and Physics, 2003, 81, 457-459.	4.0	34
24	Structure of the layered martensitic phases of Ni–Mn–Ga alloys. Materials Science & Dience & Dien	5 . 6	34
25	Thermal and microstructural evolution under ageing of several high-temperature Ni–Mn–Ga alloys. Intermetallics, 2010, 18, 977-983.	3.9	34
26	Solidification process and effect of thermal treatments on Ni–Co–Mn–Sn metamagnetic shape memory alloys. Acta Materialia, 2015, 93, 164-174.	7.9	34
27	Effects of training on the thermomechanical behavior of NiTiHf and NiTiZr high temperature shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 794, 139857.	5.6	33
28	Structural anelasticity, elasticity and broken ergodicity in Ni–Ti shape memory alloys. Acta Materialia, 2014, 73, 275-286.	7.9	32
29	Effects of Ni content on the shape memory properties and microstructure of Ni-rich NiTi-20Hf alloys. Smart Materials and Structures, 2016, 25, 095029.	3.5	32
30	H-Phase Precipitation and Martensitic Transformation in Ni-rich Ni–Ti–Hf and Ni–Ti-Zr High-Temperature Shape Memory Alloys. Shape Memory and Superelasticity, 2018, 4, 85-92.	2.2	32
31	Entropy change linked to the magnetic field induced Morin transition in Hematite nanoparticles. Applied Physics Letters, 2012, 100, 063102.	3.3	30
32	Isothermal and athermal martensitic transformations in the B2–R–B19′ sequence in Ni–Ti shape memory alloys. Scripta Materialia, 2010, 63, 1240-1243.	5.2	27
33	Microstructure of a Partially Crystallised Ti ₅₀ Ni ₂₅ Cu ₂₅ Melt-Spun Ribbon. Materials Transactions, 2003, 44, 1760-1767.	1.2	21
34	Impact fatigue behavior of superelastic NiTi shape memory alloy wires. Materials Science & Department of Science & Properties, Microstructure and Processing, 2010, 528, 764-769.	5 . 6	21
35	Strain glass state in Ni-rich Ni-Ti-Zr shape memory alloys. Acta Materialia, 2021, 218, 117232.	7.9	21
36	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

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37	The effect of annealing on the transformation and the microstructure of Mn1â^'Cr CoGe alloys. Materials Characterization, 2014, 93, 24-31.	4.4	20
38	Thermal stability and microstructure of Ni–Mn–Ga–Cu high temperature shape memory alloys. Journal of Alloys and Compounds, 2015, 648, 903-911.	5.5	19
39	Unexpected ordering behaviour of Pt3Al intermetallic precipitates. Journal of Alloys and Compounds, 2007, 432, 96-102.	5.5	18
40	Effect of ageing in Ni–Fe–Ga ferromagnetic shape memory alloys. Materials Science & Science & A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 919-922.	5.6	14
41	Thermal stability and ordering effects in Ni–Fe–Ga ferromagnetic shape memory alloys. Materials Science & Science & Properties, Microstructure and Processing, 2008, 481-482, 262-265.	5.6	14
42	Effect of Thermal Treatments on Ni–Mn–Ga and Ni-Rich Ni–Ti–Hf/Zr High-Temperature Shape Memory Alloys. Shape Memory and Superelasticity, 2015, 1, 418-428.	2.2	13
43	Twinned b.c.c. spherical particles in a partially crystallized Ti50Ni25Cu25 melt-spun ribbon. Intermetallics, 2004, 12, 341-348.	3.9	12
44	Microstructure changes in two phase $\hat{l}^2+\hat{l}^3$ 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
45	Structure and growth of core–shell nanoprecipitates in Al–Er–Sc–Zr–V–Si high-temperature alloys. Journal of Materials Science, 2019, 54, 1857-1871.	3.7	12
46	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
47	Crystallization in Partially Amorphous Ni ₅₀ Ti ₃₂ Hf ₁₈ Melt Spun Ribbon. Materials Transactions, 2004, 45, 1811-1818.	1.2	8
48	HYPERSTABILIZATION OF MARTENSITES. Functional Materials Letters, 2012, 05, 1250005.	1.2	8
49	Mechanical Spectroscopy of Hyperstabilized Martensites. Solid State Phenomena, 2012, 184, 355-360.	0.3	7
50	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
51	Structure investigations of ferromagnetic Coâ€Niâ€Al alloys obtained by powder metallurgy. Journal of Microscopy, 2010, 237, 374-378.	1.8	6
52	Strain-Glass Revisited. Materials Science Forum, 0, 738-739, 274-275.	0.3	5
53	Structure of multi-grain spherical particles in an amorphous Ti50Ni25Cu25 melt-spun ribbon. Materials Science & Description of the Materials o	5.6	4
54	AGEING EFFECTS IN Ni - Ti BASED SHAPE MEMORY ALLOYS., 2001,,.		3

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55	Thermal martensite stabilization in Ni-Ti based alloys. European Physical Journal Special Topics, 2003, 112, 647-650.	0.2	2
56	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). EDULEARN Proceedings, 2019, , .	0.0	2
57	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
58	Ageing Behaviour of High-Temperature Ni-Mn-Ga Alloys. , 0, , 633-638.		0