

# Ruben Santamarta

## List of Publications by Year in descending order

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58  
papers

2,584  
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172386  
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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. <i>Acta Materialia</i> , 2000, 48, 3027-3038.	3.8	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. <i>Acta Materialia</i> , 2013, 61, 6191-6206.	3.8	169
3	Ferromagnetic shape memory alloys: Alternatives to Ni-Mn-Ga. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 481-482, 57-65.	2.6	119
4	Microstructural characterization and shape memory characteristics of the Ni <sub>50.3</sub> Ti <sub>34.7</sub> Hf <sub>15</sub> shape memory alloy. <i>Acta Materialia</i> , 2015, 83, 48-60.	3.8	115
5	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.	3.8	89
6	Long-period martensitic structures of Ni-Mn-Ga alloys studied by high-resolution transmission electron microscopy. <i>Journal of Applied Physics</i> , 2005, 97, 083516.	1.1	84
7	Effect of atomic order on the martensitic transformation of Ni-Fe-Ga alloys. <i>Scripta Materialia</i> , 2006, 54, 1985-1989.	2.6	79
8	Effect of precipitation on the microstructure and the shape memory response of the Ni <sub>50.3</sub> Ti <sub>29.7</sub> Zr <sub>20</sub> high temperature shape memory alloy. <i>Scripta Materialia</i> , 2013, 69, 354-357.	2.6	74
9	EFFECT OF AGING ON THE MARTENSITIC TRANSFORMATION CHARACTERISTICS OF A Ni-RICH NiTiHf HIGH TEMPERATURE SHAPE MEMORY ALLOY. <i>Functional Materials Letters</i> , 2012, 05, 1250038.	0.7	69
10	On the microstructural origins of martensitic transformation arrest in a NiCoMnIn magnetic shape memory alloy. <i>Acta Materialia</i> , 2018, 142, 95-106.	3.8	67
11	Microstructural characterization and superelastic response of a Ni <sub>50.3</sub> Ti <sub>29.7</sub> Zr <sub>20</sub> high-temperature shape memory alloy. <i>Scripta Materialia</i> , 2014, 81, 12-15.	2.6	54
12	Effect of ageing on the martensitic transformation of Ni-Fe-Ga alloys. <i>Scripta Materialia</i> , 2006, 54, 1105-1109.	2.6	53
13	Shape memory properties of Ni-Ti based melt-spun ribbons. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004, 35, 761-770.	1.1	50
14	Isothermal and athermal martensitic transformations in Ni-Ti shape memory alloys. <i>Acta Materialia</i> , 2012, 60, 2578-2592.	3.8	49
15	Two way shape memory effect in NiTiHf high temperature shape memory alloy tubes. <i>Acta Materialia</i> , 2019, 163, 1-13.	3.8	47
16	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.	3.8	44
17	Role of nano-precipitation on the microstructure and shape memory characteristics of a new Ni <sub>50.3</sub> Ti <sub>34.7</sub> Zr <sub>15</sub> shape memory alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 655, 193-203.	2.6	39
18	Thermal stability of high-temperature Ni-Mn-Ga alloys. <i>Scripta Materialia</i> , 2008, 58, 259-262.	2.6	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.	2.6	37
20	Martensite stabilisation in Ni <sub>50</sub> Ti <sub>32</sub> Hf <sub>17.7</sub> . Scripta Materialia, 1999, 41, 867-872.	2.6	36
21	Microstructural design considerations in Fe-Mn-Al-Ni shape memory alloy wires: Effects of natural aging. Scripta Materialia, 2018, 142, 153-157.	2.6	36
22	Effect of amorphous/crystalline interfaces on the martensitic transformation in Ti <sub>50</sub> Ni <sub>25</sub> Cu <sub>25</sub> . Scripta Materialia, 2004, 50, 1423-1427.	2.6	35
23	HREM study of different martensitic phases in Ni-Mn-Ga alloys. Materials Chemistry and Physics, 2003, 81, 457-459.	2.0	34
24	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.	2.6	34
25	Thermal and microstructural evolution under ageing of several high-temperature Ni-Mn-Ga alloys. Intermetallics, 2010, 18, 977-983.	1.8	34
26	Solidification process and effect of thermal treatments on Ni-Co-Mn-Sn metamagnetic shape memory alloys. Acta Materialia, 2015, 93, 164-174.	3.8	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.	2.6	33
28	Structural anelasticity, elasticity and broken ergodicity in Ni-Ti shape memory alloys. Acta Materialia, 2014, 73, 275-286.	3.8	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.	1.8	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.	1.1	32
31	Entropy change linked to the magnetic field induced Morin transition in Hematite nanoparticles. Applied Physics Letters, 2012, 100, 063102.	1.5	30
32	Isothermal and athermal martensitic transformations in the B <sub>2</sub> R-B <sub>19</sub> sequence in Ni-Ti shape memory alloys. Scripta Materialia, 2010, 63, 1240-1243.	2.6	27
33	Microstructure of a Partially Crystallised Ti <sub>50</sub> Ni <sub>25</sub> Cu <sub>25</sub> Melt-Spun Ribbon. Materials Transactions, 2003, 44, 1760-1767.	0.4	21
34	Impact fatigue behavior of superelastic NiTi shape memory alloy wires. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 764-769.	2.6	21
35	Strain glass state in Ni-rich Ni-Ti-Zr shape memory alloys. Acta Materialia, 2021, 218, 117232.	3.8	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.	2.6	20

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37	The effect of annealing on the transformation and the microstructure of Mn <sub>1-x</sub> Cr <sub>x</sub> CoGe alloys. <i>Materials Characterization</i> , 2014, 93, 24-31.	1.9	20
38	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.	2.8	19
39	Unexpected ordering behaviour of Pt <sub>3</sub> Al intermetallic precipitates. <i>Journal of Alloys and Compounds</i> , 2007, 432, 96-102.	2.8	18
40	Effect of ageing in Ni-Fe-Ga ferromagnetic shape memory alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 438-440, 919-922.	2.6	14
41	Thermal stability and ordering effects in Ni-Fe-Ga ferromagnetic shape memory alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 481-482, 262-265.	2.6	14
42	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.	1.1	13
43	Twinned b.c.c. spherical particles in a partially crystallized Ti <sub>50</sub> Ni <sub>25</sub> Cu <sub>25</sub> melt-spun ribbon. <i>Intermetallics</i> , 2004, 12, 341-348.	1.8	12
44	Microstructure changes in two phase $\beta_2 + \beta_3$ Co-Ni-Al ferromagnetic shape memory alloys in relation to Al/Co ratio. <i>European Physical Journal: Special Topics</i> , 2008, 158, 137-142.	1.2	12
45	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.	1.7	12
46	Applications of advanced transmission electron microscopic techniques to Ni-Ti based shape memory materials. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 378, 11-15.	2.6	9
47	Crystallization in Partially Amorphous Ni <sub>50</sub> Ti <sub>32</sub> Hf <sub>18</sub> Melt Spun Ribbon. <i>Materials Transactions</i> , 2004, 45, 1811-1818.	0.4	8
48	HYPERSTABILIZATION OF MARTENSITES. <i>Functional Materials Letters</i> , 2012, 05, 1250005.	0.7	8
49	Mechanical Spectroscopy of Hyperstabilized Martensites. <i>Solid State Phenomena</i> , 2012, 184, 355-360.	0.3	7
50	Thermo-mechanical behaviour of a Ni-Ti-Cu melt spun alloy. <i>European Physical Journal Special Topics</i> , 2001, 11, Pr8-351-Pr8-356.	0.2	6
51	Structure investigations of ferromagnetic Co-Ni-Al alloys obtained by powder metallurgy. <i>Journal of Microscopy</i> , 2010, 237, 374-378.	0.8	6
52	Strain-Glass Revisited. <i>Materials Science Forum</i> , 0, 738-739, 274-275.	0.3	5
53	Structure of multi-grain spherical particles in an amorphous Ti <sub>50</sub> Ni <sub>25</sub> Cu <sub>25</sub> melt-spun ribbon. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 378, 143-147.	2.6	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