

Vicente SÃ¡nchez-Alarcos

List of Publications by Year in descending order

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docs citations

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1079
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic and Plastic Strains Misfits During the Reverse Martensitic Transformation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 706-722.	1.1	1
2	Room temperature huge magnetocaloric properties in low hysteresis ordered Cu-doped Ni-Mn-In-Co alloys. Journal of Alloys and Compounds, 2022, 922, 166143.	2.8	7
3	Magnetically tunable damping in composites for 4D printing. Composites Science and Technology, 2021, 201, 108538.	3.8	16
4	Effect of high-energy ball-milling on the magnetostructural properties of a Ni ₄₅ Co ₅ Mn ₃₅ Sn ₁₅ alloy. Journal of Alloys and Compounds, 2021, 858, 158350.	2.8	9
5	Testing the Applicability of ¹¹⁹ Sn Mössbauer Spectroscopy for the Internal Stress Study in Ternary and Co-Doped Ni-Mn-Sn Metamagnetic Alloys. Metals, 2021, 11, 450.	1.0	5
6	Magnetic behavior in commercial iron-silicon alloys controlled by the dislocation dynamics at temperatures below 420 K. Journal of Alloys and Compounds, 2021, 856, 157934.	2.8	5
7	Correlation between particle size and magnetic properties in soft-milled Ni ₄₅ Co ₅ Mn ₃₄ In ₁₆ powders. Intermetallics, 2021, 130, 107076.	1.8	8
8	Deformation induced martensite stabilization in Ni ₄₅ Mn _{36.7} In _{13.3} Co ₅ microparticles. Journal of Alloys and Compounds, 2021, 870, 159536.	2.8	3
9	Analysis of the strain misfit between matrix and inclusions in a magnetically tunable composite. Mechanics of Materials, 2021, 162, 104045.	1.7	2
10	Influence of Structural Defects on the Properties of Metamagnetic Shape Memory Alloys. Metals, 2020, 10, 1131.	1.0	6
11	Experimental Observation of Vacancy-assisted Martensitic Transformation Shift in Ni-Fe-Ga Alloys. Physical Review Letters, 2019, 122, 165701.	2.9	8
12	Outstanding role of the magnetic entropy in arrested austenite in an ordered Ni ₄₅ Mn _{36.7} In _{13.3} Co ₅ metamagnetic shape memory alloy. Scripta Materialia, 2019, 168, 91-95.	2.6	12
13	Identification of a Ni-vacancy defect in Ni-Mn- experimental and DFT positron-annihilation study. Physical Review B, 2019, 80, Tj ETQq1 1 0.784314 rgBT /	1.1	12
14	Routes for enhanced magnetism in Ni-Mn-In metamagnetic shape memory alloys. Scripta Materialia, 2019, 167, 21-25.	2.6	8
15	Magnetocaloric effect enhancement driven by intrinsic defects in a Ni ₄₅ Co ₅ Mn ₃₅ Sn ₁₅ alloy. Journal of Alloys and Compounds, 2019, 774, 586-592.	2.8	14
16	Correlation between defects and magneto-structural properties in Ni-Mn-Sn metamagnetic shape memory alloys. Intermetallics, 2018, 94, 133-137.	1.8	18
17	¹¹⁹ Sn Mössbauer spectroscopy in the study of metamagnetic shape memory alloys. Hyperfine Interactions, 2018, 239, 1.	0.2	5
18	Influence of defects on the irreversible phase transition in the Fe-Pd doped with Co and Mn. Revista Materia, 2018, 23, .	0.1	1

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19	Study of the martensitic transition in Ni-Mn-Sn-Ti ferromagnetic shape memory alloys. <i>Revista Materia</i> , 2018, 23, .	0.1	1
20	¹¹⁹ Sn Mössbauer spectroscopy for assessing the local stress and defect state towards the tuning of Ni-Mn-Sn alloys. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	19
21	Influence of thermal treatments on the mechanical properties and the martensitic transformation in Fe-Pd-Mn ferromagnetic shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 683, 164-171.	2.6	9
22	Giant direct and inverse magnetocaloric effect linked to the same forward martensitic transformation. <i>Scientific Reports</i> , 2017, 7, 13328.	1.6	20
23	Latent heat contribution to the direct magnetocaloric effect in Ni-Mn-Ga shape memory alloys with coupled martensitic and magnetic transformations. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 205004.	1.3	7
24	Mobility of Twin Boundaries in Fe-Pd-Based Ferromagnetic Shape Memory Alloys. <i>Materials Transactions</i> , 2016, 57, 1837-1844.	0.4	8
25	Low temperature magnetic properties of a Ni ₅₀ Mn ₃₄ In ₁₆ ball-milled metamagnetic shape memory alloy. <i>Journal of Non-Crystalline Solids</i> , 2016, 447, 16-20.	1.5	4
26	Mechanically induced disorder and crystallization process in Ni-Mn-In ball-milled alloys. <i>Journal of Alloys and Compounds</i> , 2016, 689, 983-991.	2.8	15
27	Determination of the vibrational contribution to the entropy change at the martensitic transformation in Ni-Mn-Sn metamagnetic shape memory alloys: a combined approach of time-of-flight neutron spectroscopy and <i>ab initio</i> calculations. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 205402.	0.7	8
28	Piezoelectric composite oscillator for measuring mechanical spectroscopy in small samples that non-match in half wavelength. <i>Measurement Science and Technology</i> , 2016, 27, 035902.	1.4	1
29	Order Evolution in Iron-Based Alloys Viewed through Amplitude Dependent Damping Studies. <i>Materials Transactions</i> , 2015, 56, 182-186.	0.4	5
30	Morin transition in Hematite nanoparticles analyzed by neutron diffraction. <i>Journal of Physics: Conference Series</i> , 2015, 663, 012003.	0.3	5
31	Mobility of dislocations and grain boundaries controlled by the order degree in iron-based alloys. <i>Journal of Physics: Conference Series</i> , 2015, 663, 012013.	0.3	1
32	Effect of Ti addition on the mechanical properties and the magnetocaloric effect of Ni-Mn-In metamagnetic shape memory alloys. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 445006.	1.3	10
33	Influence of defects on the irreversible phase transition in Fe-Pd ferromagnetic shape memory alloys. <i>Acta Materialia</i> , 2015, 86, 110-117.	3.8	16
34	Characterisation and modelling of vacancy dynamics in Ni-Mn-Ga ferromagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2015, 639, 180-186.	2.8	12
35	Relation between order degree, damping behaviour and magnetic response in Fe-Si and Fe-Al-Si alloys. <i>Neutron News</i> , 2014, 25, 28-31.	0.1	5
36	Long-Range Atomic Order and Entropy Change at the Martensitic Transformation in a Ni-Mn-In-Co Metamagnetic Shape Memory Alloy. <i>Entropy</i> , 2014, 16, 2756-2767.	1.1	28

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37	Vacancy dynamic in Ni-Mn-Ga ferromagnetic shape memory alloys. Applied Physics Letters, 2014, 104, .	1.5	11
38	Study of the transformation sequence on a high temperature martensitic transformation Ni-Mn-Ga-Co shape memory alloy. Journal of Physics: Conference Series, 2014, 549, 012017.	0.3	1
39	Magnetic properties of the martensitic phase in Ni-Mn-In-Co metamagnetic shape memory alloys. Applied Physics Letters, 2013, 102, .	1.5	32
40	Direct evidence of the magnetoelastic interaction in Ni ₂ MnGa magnetic shape memory system. Applied Physics Letters, 2013, 102, .	1.5	14
41	Effect of high-temperature quenching on the magnetostructural transformations and the long-range atomic order of Ni-Mn-Sn and Ni-Mn-Sb metamagnetic shape memory alloys. Acta Materialia, 2013, 61, 3.8 4676-4682.		61
42	Defects structure characterization of NiMnGa alloys by PALS. Journal of Physics: Conference Series, 2013, 443, 012039.	0.3	0
43	Transformation behavior of Ni-Mn-Ga in the low-temperature limit. Journal of Physics Condensed Matter, 2012, 24, 276004.	0.7	3
44	Ellipsometry applied to phase transitions and relaxation phenomena in Ni ₂ MnGa ferromagnetic shape memory alloy. Applied Physics Letters, 2012, 101, .	1.5	4
45	Dependence of the relative stability between austenite and martensite phases on the atomic order in a Ni-Mn-In Metamagnetic Shape Memory Alloy. Journal of Alloys and Compounds, 2012, 536, S308-S311.	2.8	23
46	Effect of magnetic field on the isothermal transformation of a Ni-Mn-In-Co magnetic shape memory alloy. Intermetallics, 2012, 28, 144-148.	1.8	16
47	Positron Annihilation Spectroscopy Study of Ni-Mn-Ga Ferromagnetic Shape Memory Alloys. Physics Procedia, 2012, 35, 57-62.	1.2	3
48	Non-equilibrium martensitic transformation in metamagnetic shape memory alloys. Journal of Alloys and Compounds, 2012, 536, S277-S281.	2.8	9
49	Role of magnetism on the martensitic transformation in Ni-Mn-based magnetic shape memory alloys. Acta Materialia, 2012, 60, 459-468.	3.8	60
50	Dependence of the martensitic transformation and magnetic transition on the atomic order in Ni-Mn-In metamagnetic shape memory alloys. Acta Materialia, 2012, 60, 1937-1945.	3.8	83
51	Entropy change linked to the martensitic transformation in metamagnetic shape memory alloys. Acta Materialia, 2012, 60, 3168-3175.	3.8	83
52	Magnetic field induced martensitic transformation linked to the arrested austenite in a Ni-Mn-In-Co shape memory alloy. Journal of Applied Physics, 2011, 109, 093515.	1.1	36
53	Study of Co-containing Ni-Mn-Ga by positron annihilation. Journal of Physics: Conference Series, 2011, 265, 012015.	0.3	0
54	Temperature dependence of magnetic susceptibility in the vicinity of martensitic transformation in ferromagnetic shape memory alloys. Journal of Physics Condensed Matter, 2010, 22, 316004.	0.7	5

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55	Ni-Mn-Ga ferromagnetic shape memory wires. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	21
56	Vibrational and magnetic contributions to the entropy change associated with the martensitic transformation of Ni-Fe-Ga ferromagnetic shape memory alloys. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 416001.	0.7	23
57	Entropy change linked to the magnetic field induced martensitic transformation in a Ni-Mn-In-Co shape memory alloy. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	69
58	Effect of atomic order on the martensitic and magnetic transformations in Ni-Mn-Ga ferromagnetic shape memory alloys. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 166001.	0.7	49
59	Lattice dynamics and external magnetic-field effects in Ni-Fe-Ga alloys. <i>Physical Review B</i> , 2009, 80, .	1.1	34
60	Magnetocaloric effect linked to the martensitic transformation in sputter-deposited Ni-Mn-Ga thin films. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	57
61	Effect of Mn addition on the structural and magnetic properties of Fe-Pd ferromagnetic shape memory alloys. <i>Acta Materialia</i> , 2009, 57, 4224-4232.	3.8	26
62	Influence of the atomic order on the magnetic characteristics of a Ni-Mn-Ga ferromagnetic shape memory alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, e160-e163.	1.0	25
63	Correlation between composition and phase transformation temperatures in Ni-Mn-Ga-Co ferromagnetic shape memory alloys. <i>Acta Materialia</i> , 2008, 56, 5370-5376.	3.8	45
64	Effect of thermal treatments on the martensitic transformation in Co-containing Ni-Mn-Ga alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 481-482, 293-297.	2.6	15
65	Reversible and irreversible martensitic transformations in Fe-Pd and Fe-Pd-Co alloys. <i>European Physical Journal: Special Topics</i> , 2008, 158, 107-112.	1.2	17
66	Vibrational and magnetic behavior of transforming and nontransforming Ni-Mn-Ga alloys. <i>Physical Review B</i> , 2007, 76, .	1.1	21
67	Correlation between atomic order and the characteristics of the structural and magnetic transformations in Ni-Mn-Ga shape memory alloys. <i>Acta Materialia</i> , 2007, 55, 3883-3889.	3.8	121
68	Magnetic study of the martensitic transformation in a Fe-Pd alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e614-e617.	1.0	9
69	Defect pinning of interface motion in thermoelastic structural transitions of Cu-Al-Ni shape-memory alloy. <i>Physical Review B</i> , 2006, 73, .	1.1	12
70	Pre-martensitic phenomena in a near stoichiometric Ni ₂ MnGa Polycrystalline alloy. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2006, 23, 93-98.	0.3	5
71	Study of the stability and decomposition process of the $\hat{\eta}^2$ phase in Cu-Al-Ni shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 438-440, 734-737.	2.6	41
72	Magnetocaloric effect in Ni-Fe-Ga shape memory alloys. <i>Applied Physics Letters</i> , 2006, 88, 132503.	1.5	47

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73	Influence on the martensitic transformation of the $\hat{\Gamma}^2$ phase decomposition process in a Cu-Al-Ni shape memory alloy. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 4223-4236.	0.7	16
74	Elastic behavior during early stage of $\hat{\Gamma}^2$ phase decomposition in a Cu-Al-Ni shape memory alloy. <i>Applied Physics Letters</i> , 2005, 86, 231903.	1.5	5
75	Anelastic contributions and transformed volume fraction during thermoelastic martensitic transformations. <i>Physical Review B</i> , 1998, 57, 5684-5692.	1.1	92
76	Effect of Co and Mn Doping on the Martensitic Transformations and Magnetic Properties of Fe-Pd Ferromagnetic Shape Memory Alloys. <i>Materials Science Forum</i> , 0, 635, 103-110.	0.3	10
77	Positron Annihilation Spectroscopy Study of NiMnGa Modulated and Non-Modulated Martensitic Phases. <i>Materials Science Forum</i> , 0, 635, 55-61.	0.3	3
78	Influence of Long-Range Atomic Order on the Structural and Magnetic Properties of Ni-Mn-Ga Ferromagnetic Shape Memory Alloys. <i>Materials Science Forum</i> , 0, 684, 85-103.	0.3	15