

Fernando Plazaola

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

174 papers	3,098 citations	28 h-index	49 g-index
186 ext. papers	3,428 ext. citations	3.1 avg, IF	4.81 L-index

#	Paper	IF	Citations
174	Elastic and Plastic Strains Misfits During the Reverse Martensitic Transformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022 , 53, 706-722	2.3	0
173	Vacancies mediated ordering in Ni-Mn-Ga shape memory alloys. <i>Scripta Materialia</i> , 2022 , 215, 114731	5.6	0
172	Shaping Up Zn-Doped Magnetite Nanoparticles from Mono- and Bimetallic Oleates: The Impact of Zn Content, Fe Vacancies, and Morphology on Magnetic Hyperthermia Performance. <i>Chemistry of Materials</i> , 2021 , 33, 3139-3154	9.6	6
171	Neutron Scattering as a Powerful Tool to Investigate Magnetic Shape Memory Alloys: A Review. <i>Metals</i> , 2021 , 11, 829	2.3	0
170	Effect of high-energy ball-milling on the magnetostructural properties of a Ni ₄₅ Co ₅ Mn ₃₅ Sn ₁₅ alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 858, 158350	5.7	5
169	Testing the Applicability of ¹¹⁹ Sn Mössbauer Spectroscopy for the Internal Stress Study in Ternary and Co-Doped Ni-Mn-Sn Metamagnetic Alloys. <i>Metals</i> , 2021 , 11, 450	2.3	1
168	Highly Reproducible Hyperthermia Response in Water, Agar, and Cellular Environment by Discretely PEGylated Magnetite Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27917-27929	9.5	13
167	Exploring the potential of the dynamic hysteresis loops via high field, high frequency and temperature adjustable AC magnetometer for magnetic hyperthermia characterization. <i>International Journal of Hyperthermia</i> , 2020 , 37, 976-991	3.7	7
166	Influence of Structural Defects on the Properties of Metamagnetic Shape Memory Alloys. <i>Metals</i> , 2020 , 10, 1131	2.3	2
165	Experimental Observation of Vacancy-assisted Martensitic Transformation Shift in Ni-Fe-Ga Alloys. <i>Physical Review Letters</i> , 2019 , 122, 165701	7.4	6
164	Sub-lattice polarization states in anti-ferroelectrics and their relaxation process. <i>Current Applied Physics</i> , 2019 , 19, 651-656	2.6	5
163	Identification of a Ni-vacancy defect in Ni-Mn-Z (Z=Ga, Sn, In): An experimental and DFT positron-annihilation study. <i>Physical Review B</i> , 2019 , 99,	3.3	9
162	Instrumentation for Magnetic Hyperthermia 2019 , 111-138		3
161	Mechanical energy losses in commercial crosslinked low-density polyethylene in the temperature range between 200 and 400 K. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47605	2.9	0
160	Outstanding heat loss via nano-octahedra above 20 nm in size: from wustite-rich nanoparticles to magnetite single-crystals. <i>Nanoscale</i> , 2019 , 11, 16635-16649	7.7	21
159	Design, Construction, and Characterization of a Magic Angle Field Spinning RF Magnet. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 4094-4103	5.2	0
158	Magnetocaloric effect enhancement driven by intrinsic defects in a Ni ₄₅ Co ₅ Mn ₃₅ Sn ₁₅ alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 774, 586-592	5.7	13

157	Correlation between defects and magneto-structural properties in Ni-Mn-Sn metamagnetic shape memory alloys. <i>Intermetallics</i> , 2018 , 94, 133-137	3.5	12
156	¹¹⁹ Sn Mössbauer spectroscopy in the study of metamagnetic shape memory alloys. <i>Hyperfine Interactions</i> , 2018 , 239, 1	0.8	2
155	Changes in the crystalline degree in neutron irradiated EPDM viewed through infrared spectroscopy and inelastic neutron scattering. <i>Revista Materiq</i> , 2018 , 23,	0.8	1
154	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, 181908	3.4	12
153	Radiation-induced alloy rearrangement in In _x Ga _{1-x} N. <i>Applied Physics Letters</i> , 2017 , 110, 132104	3.4	8
152	In situ measurements of free volume during recovery process of a shape memory polymer. <i>Polymer</i> , 2017 , 109, 66-70	3.9	9
151	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 1840-1851	2.3	5
150	Tuning Sizes, Morphologies, and Magnetic Properties of Monocore Versus Multicore Iron Oxide Nanoparticles through the Controlled Addition of Water in the Polyol Synthesis. <i>Inorganic Chemistry</i> , 2017 , 56, 8232-8243	5.1	61
149	Mechanically induced disorder and crystallization process in Ni-Mn-In ball-milled alloys. <i>Journal of Alloys and Compounds</i> , 2016 , 689, 983-991	5.7	12
148	Chemical Synthesis and Magnetic Properties of Monodisperse Nickel Ferrite Nanoparticles for Biomedical Applications. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3492-3500	3.8	55
147	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	2	0
146	Influence of the order-disorder transition on the magnetic properties of Fe ₇₅ Al _{25-x} Si _x alloys. <i>Intermetallics</i> , 2016 , 69, 35-41	3.5	2
145	Antitumor magnetic hyperthermia induced by RGD-functionalized FeO nanoparticles, in an experimental model of colorectal liver metastases. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 1532-1542	3.42	28
144	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	3.9	4
143	Study of the enhancement of the magnetic properties of Fe ₇₀ Al _{30-x} Si _x alloys in the order-disorder transition. <i>Journal of Alloys and Compounds</i> , 2016 , 682, 495-502	5.7	
142	Cholesterol-Ceramide Interactions in Phospholipid and Sphingolipid Bilayers As Observed by Positron Annihilation Lifetime Spectroscopy and Molecular Dynamics Simulations. <i>Langmuir</i> , 2016 , 32, 5434-44	4	14
141	Observation of a charge delocalization from Se vacancies in Bi ₂ Se ₃ : A positron annihilation study of native defects. <i>Physical Review B</i> , 2016 , 94,	3.3	5
140	Characterisation and modelling of vacancy dynamics in Ni ₅₀ Mn ₃₄ Ga ₁₆ ferromagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2015 , 639, 180-186	5.7	10

139	Ceramide increases free volume voids in DPPC membranes. <i>RSC Advances</i> , 2015 , 5, 44282-44290	3.7	10
138	Specific absorption rate dependence on temperature in magnetic field hyperthermia measured by dynamic hysteresis losses (ac magnetometry). <i>Nanotechnology</i> , 2015 , 26, 015704	3.4	65
137	Harmonic phases of the nanoparticle magnetization: An intrinsic temperature probe. <i>Applied Physics Letters</i> , 2015 , 107, 123103	3.4	23
136	Fundamentals and advances in magnetic hyperthermia. <i>Applied Physics Reviews</i> , 2015 , 2, 041302	17.3	469
135	Connecting free volume with shape memory properties in noncytotoxic gamma-irradiated polycyclooctene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 1080-1088	2.6	9
134	Sub-nanoscale free volume and local elastic modulus of chitosan-carbon nanotube biomimetic nanocomposite scaffold-materials. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 3169-3176	7.3	8
133	Mesoporous iron phosphate/phosphonate hybrid materials. <i>Microporous and Mesoporous Materials</i> , 2014 , 187, 14-22	5.3	10
132	A wide-frequency range AC magnetometer to measure the specific absorption rate in nanoparticles for magnetic hyperthermia. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 368, 432-437	2.8	59
131	Vacancy dynamic in Ni-Mn-Ga ferromagnetic shape memory alloys. <i>Applied Physics Letters</i> , 2014 , 104, 231905	3.4	10
130	Fluorinated mixed valence Fe(II)/Fe(III) phosphites with channels templated by linear tetramine chains. Structural and magnetic implications of partial replacement of Fe(II) by Co(II). <i>CrystEngComm</i> , 2014 , 16, 6066-6079	3.3	3
129	Defects interaction processes in deformed high purity polycrystalline molybdenum at elevated temperatures. <i>Journal of Nuclear Materials</i> , 2014 , 453, 1-7	3.3	1
128	Fe ₃ O ₄ nanoparticles prepared by the seeded-growth route for hyperthermia: electron magnetic resonance as a key tool to evaluate size distribution in magnetic nanoparticles. <i>Nanoscale</i> , 2014 , 6, 7542-7552	7.7	38
127	Mössbauer spectroscopy study of the disordering process of Fe ₇₀ Si ₃₀ alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S169-S172	5.7	1
126	Magnetic transition induced by mechanical deformation in Fe ₆₀ Al ₄₀ -Six ternary alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 586, S301-S304	5.7	3
125	Study of the structure influence on the magnetism of Fe ₇₀ Al ₃₀ -xSix alloys. <i>EPJ Web of Conferences</i> , 2014 , 75, 03003	0.3	
124	Detection of atomic scale changes in the free volume void size of three-dimensional colorectal cancer cell culture using positron annihilation lifetime spectroscopy. <i>PLoS ONE</i> , 2014 , 9, e83838	3.7	20
123	A multifrequency electromagnetic applicator with an integrated AC magnetometer for magnetic hyperthermia experiments. <i>Measurement Science and Technology</i> , 2014 , 25, 115702	2	51
122	Mössbauer spectroscopy study of the disordering process of Fe-rich FeAlSi alloys. <i>Hyperfine Interactions</i> , 2014 , 226, 397-404	0.8	

121	On the interplay of point defects and Cd in non-polar ZnCdO films. <i>Journal of Applied Physics</i> , 2013 , 113, 023512	2.5	7
120	Mössbauer study of mechanical deformation induced order-disorder transition in Fe ₇₅ AlSi alloys 2013 , 427-430		
119	Effects of Neutron Irradiation on Positron Lifetime and Micro-Vickers Hardness of Fe-Cu Model Alloys and Reactor Pressure Vessel Steel 2013 , 835-844		1
118	Defects structure characterization of NiMnGa alloys by PALS. <i>Journal of Physics: Conference Series</i> , 2013 , 443, 012039	0.3	
117	Si/Al influence on Fe ₇₀ Al ₃₀ alloys 2013 , 421-425		
116	Magnetic property enhancement and characterization of nano-structured barium ferrite by mechano-thermal treatment. <i>Materials Characterization</i> , 2012 , 63, 83-89	3.9	25
115	Sensitiveness of the ratio between monovacancy and bulk positron lifetimes to the approximations used in the calculations: Periodic behaviour. <i>Solid State Sciences</i> , 2012 , 14, 982-987	3.4	7
114	Structural and magnetic study of mechanically deformed Fe rich FeAlSi ternary alloys. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S282-S286	5.7	11
113	Influence of volume and Fe local environment on magnetic properties of Fe-rich FeAl alloys. <i>Intermetallics</i> , 2012 , 24, 38-49	3.5	19
112	Thermal Stability of Mg _{1-x} Ti _x Thin Films Investigated by Positron Annihilation Spectroscopy. <i>Physics Procedia</i> , 2012 , 35, 16-21		5
111	Positron Annihilation Spectroscopy Study of Ni-Mn-Ga Ferromagnetic Shape Memory Alloys. <i>Physics Procedia</i> , 2012 , 35, 57-62		3
110	Study of the intra-arterial distribution of Fe ₃ O ₄ nanoparticles in a model of colorectal neoplasm induced in rat liver by MRI and spectrometry. <i>International Journal of Nanomedicine</i> , 2012 , 7, 2399-410	7.3	6
109	Fe-Al Alloys Magnetism 2012 ,		3
108	Si/Al influence on Fe ₇₀ Al ₃₀ alloys. <i>Hyperfine Interactions</i> , 2012 , 206, 125-129	0.8	1
107	Mössbauer study of mechanical deformation induced order-disorder transition in Fe ₇₅ AlSi alloys. <i>Hyperfine Interactions</i> , 2012 , 206, 131-134	0.8	2
106	Specific absorption rate of magnetite nanoparticle powders with and without surrounding organic ligands. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 7451-5	1.3	4
105	Determination of defect content and defect profile in semiconductor heterostructures. <i>Journal of Physics: Conference Series</i> , 2011 , 265, 012004	0.3	1
104	Study of Co-containing Ni-Mn-Ga by positron annihilation. <i>Journal of Physics: Conference Series</i> , 2011 , 265, 012015	0.3	

103	Dislocation Movement in WE43 Magnesium Alloy during Recovery and Recrystallisation. <i>Materials Transactions</i> , 2011 , 52, 1016-1025	1.3	4
102	Modification of the mesoscopic structure in neutron irradiated EPDM viewed through positron annihilation spectroscopy and dynamic mechanical analysis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011 , 269, 336-344	1.2	12
101	Calculation of positron characteristics for elements of the periodic table. <i>Journal of Physics: Conference Series</i> , 2011 , 265, 012006	0.3	7
100	Temperature- and illumination-induced charge-state change in divacancies of GaTe. <i>Physical Review B</i> , 2010 , 81,	3.3	1
99	Mössbauer spectroscopy study of the influence of Si addition to ordered and disordered Fe ₆₀ Al ₄₀ alloys. <i>Journal of Physics: Conference Series</i> , 2010 , 217, 012078	0.3	1
98	Magnetic and structural characterization of thiol capped ferromagnetic Ag nanoparticles. <i>Journal of Applied Physics</i> , 2010 , 107, 09E317	2.5	5
97	Magnetic study of the influence of Si/Al substitution in ordered Fe ₇₅ Al ₂₅ , Fe ₇₀ Al ₃₀ and Fe ₆₀ Al ₄₀ . <i>Intermetallics</i> , 2010 , 18, 1288-1292	3.5	7
96	Thiol-capped ferromagnetic Au nanoparticles investigated by Au L3 x-ray absorption spectroscopy. <i>Journal of Applied Physics</i> , 2009 , 105, 07A907	2.5	12
95	Positron Annihilation Spectroscopy Study of NiMnGa Modulated and Non-Modulated Martensitic Phases. <i>Materials Science Forum</i> , 2009 , 635, 55-61	0.4	3
94	Elastic misfit in two-phase polymer. <i>Polymer</i> , 2009 , 50, 4696-4705	3.9	15
93	Mild hydrothermal synthesis, crystal structure, spectroscopic and magnetic properties of the [M=Fe, x=2.08, y=1.58; M=Co, Ni, x=2.5, y=2] compounds. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 2191-2201 ⁶	3.3	16
92	Chemically induced permanent magnetism in Au, Ag, and Cu nanoparticles: localization of the magnetism by element selective techniques. <i>Nano Letters</i> , 2008 , 8, 661-7	11.5	199
91	Thermal Creation of Defects in GaTe. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 8719-8722	1.4	1
90	Influence of structure on the magnetism of Fe _{1-x} Al _x alloys. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1128, 209.R301		
89	. <i>IEEE Transactions on Magnetism</i> , 2008 , 44, 4206-4209	2	2
88	Dynamics of the Magnetic Susceptibility of Fe _{1-x} Al _x (x = 70, 71) Alloys. <i>IEEE Transactions on Magnetism</i> , 2008 , 44, 3883-3886	2	2
87	Al versus Si competition in FeSiAl alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, e688-e691	2.8	15
86	Influence of addition of Si in FeAl alloys: Theory. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, e692-e695	2.8	9

85	Positron lifetime calculation for the elements of the periodic table. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 176222	1.8	132
84	Positron annihilation lifetime spectroscopy of ZnO bulk samples. <i>Physical Review B</i> , 2007 , 76,	3.3	43
83	New method for the determination of the defect profile in thin layers grown over a substrate. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 3973-3976		1
82	The role of vacancies in the mobility of dislocations and grain boundaries in magnesium. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 1077-1092	1.6	15
81	Theoretical study of the magnetism of the FeAlSi system around the D03 stoichiometric composition. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e470-e473	2.8	7
80	Structural study of the re-entrant spin-glass behaviour of FeAl alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e488-e491	2.8	5
79	Ferromagnetic resonance study of Fe rich FeAl intermetallic alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e484-e487	2.8	3
78	Mössbauer study of the crystallization products of a Fe ₇₅ Zr ₂₅ amorphous alloy. <i>Hyperfine Interactions</i> , 2007 , 165, 161-165	0.8	1
77	Mössbauer study of the martensitic transformation in a Ni ₄₅ Fe ₅₅ shape memory alloy. <i>Hyperfine Interactions</i> , 2007 , 168, 1207-1210	0.8	5
76	Systematic study of mechanical deformation on Fe ₃ Al x Si _{1-x} powders by Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , 2007 , 169, 1217-1222	0.8	3
75	Mössbauer studies of the re-entrant spin-glass behaviour of FeAl alloys. <i>Hyperfine Interactions</i> , 2007 , 169, 1231-1234	0.8	4
74	Fe ⁵⁷ Mössbauer and x-ray magnetic circular dichroism study of magnetic compensation of the rare-earth sublattice in Nd _{2-x} HoxFe ₁₄ B compounds. <i>Physical Review B</i> , 2007 , 76,	3.3	9
73	Positron annihilation spectroscopy for the determination of thickness and defect profile in thin semiconductor layers. <i>Physical Review B</i> , 2007 , 75,	3.3	25
72	Influence of Cr addition on the defect structure of FeAl alloys. <i>Intermetallics</i> , 2007 , 15, 177-180	3.5	11
71	Volume expansion contribution to the magnetism of atomically disordered intermetallic alloys. <i>Physical Review B</i> , 2006 , 74,	3.3	56
70	Correlation between Zn vacancies and photoluminescence emission in ZnO films. <i>Journal of Applied Physics</i> , 2006 , 99, 053516	2.5	43
69	Small-angle neutron-scattering studies of reentrant spin-glass behavior in FeAl alloys. <i>Journal of Applied Physics</i> , 2006 , 99, 08H502	2.5	7
68	Ferromagnetic/mictomagnetic transitions in Fe rich Fe _{1-x} Al _x alloys: A magnetoresistivity study. <i>Journal of Alloys and Compounds</i> , 2006 , 423, 84-86	5.7	

67	Mössbauer study of the crystallization products of a Fe ₇₅ Zr ₂₅ amorphous alloy 2006 , 161-165		
66	Systematic study of mechanical deformation on Fe ₃ Al _x Si _{1-x} powders by Mössbauer spectroscopy 2006 , 1217-1222		
65	A positron study of the defect structures in the D03 and B2 phases in the Fe-Al system. <i>Acta Materialia</i> , 2005 , 53, 163-172	8.4	28
64	Cationic Order in Double Perovskite Oxide, Sr ₂ Fe _{1-x} Sc _x ReO ₆ (x = 0.05, 0.1). <i>Hyperfine Interactions</i> , 2005 , 161, 113-122	0.8	3
63	Influence of Plastic Deformation on the Magnetic Properties of Fe-Al Alloys. <i>AIP Conference Proceedings</i> , 2005 ,	0	2
62	Magnetic Evolution with Composition on Fe-rich Fe-Al Alloys by Mössbauer spectroscopy. <i>AIP Conference Proceedings</i> , 2005 ,	0	1
61	Mechanism of magnetic recovery in the disorder-order transformation of Fe ₇₀ Al ₃₀ mechanically deformed alloys. <i>Physical Review B</i> , 2005 , 71,	3.3	14
60	Zinc vacancies in the heteroepitaxy of ZnO on sapphire: Influence of the substrate orientation and layer thickness. <i>Applied Physics Letters</i> , 2005 , 86, 042103	3.4	56
59	Crystallisation and polymorphic transformations in Fe-Zr amorphous alloys obtained by high-energy ball milling. <i>Physica B: Condensed Matter</i> , 2004 , 350, E1075-E1077	2.8	12
58	Study of the weight of different contributions to the magnetic reinforcement in the order-disorder transition of Fe-Al alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 794-796	2.8	19
57	Magnetic properties of the Fe-rich Fe-Al alloy system. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1342-1344	2.8	18
56	Studies on the influence of the order-disorder transition on the magnetic properties of Fe-Al alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1510-1511	2.8	6
55	Electronic structure calculations of Fe-rich ordered and disordered Fe-Al alloys. <i>European Physical Journal B</i> , 2003 , 31, 167-177	1.2	50
54	Study of the structure influence on the magnetism of Fe ₇₀ Al ₃₀ alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 254-255, 136-139	2.8	8
53	Magnetic properties of Fe ₆₆ Cr ₁₂ Al ₂₂ crystalline ribbon. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 254-255, 528-531	2.8	
52	Evolution of the magnetic properties of ordered Fe ₇₀ Al ₃₀ alloy with mechanical milling time. <i>Sensors and Actuators A: Physical</i> , 2003 , 106, 76-79	3.9	14
51	Defect characterization of ZnBeSe solid solutions by means of positron annihilation and photoluminescence techniques. <i>Journal of Applied Physics</i> , 2003 , 94, 1647-1653	2.5	11
50	Systematic study of the reordering process in Fe-Al alloys by neutron diffraction. <i>Journal of Non-Crystalline Solids</i> , 2003 , 329, 39-42	3.9	2

49	Near band edge recombination mechanisms in GaTe. <i>Physical Review B</i> , 2003 , 68,	3.3	19
48	Collection of Data on Positron Lifetimes and Vacancy Formation Energies of the Elements of the Periodic Table. <i>Defect and Diffusion Forum</i> , 2003 , 213-215, 141-0	0.7	30
47	Study of the enhancement of the magnetic properties of Fe ₇₀ Al ₃₀ in the order-disorder transition. <i>Journal of Applied Physics</i> , 2003 , 93, 7649-7651	2.5	38
46	Non-conventional magnetic order in Fe-substituted La _{0.7} Sr _{0.3} MnO ₃ giant-magnetoresistance manganites. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 12563-12573	1.8	17
45	Recombination processes in unintentionally doped GaTe single crystals. <i>Journal of Applied Physics</i> , 2002 , 92, 7330-7336	2.5	17
44	Micro- and macroscopic magnetic study of the disordering (ball milling) and posterior reordering (annealing) of Fe-40 at.% Al. <i>Journal of Non-Crystalline Solids</i> , 2001 , 287, 272-276	3.9	7
43	Fe doping in La _{0.7} Sr _{0.3} MnO ₃ magnetoresistant perovskite. <i>Journal of Alloys and Compounds</i> , 2001 , 323-324, 440-443	5.7	18
42	The local structure from two experimental atomic probes: EXAFS and Mössbauer spectroscopies. <i>Journal of Non-Crystalline Solids</i> , 2001 , 287, 75-80	3.9	1
41	Free-volume evolution in the system polycarbonate/polycaprolactone studied by positron annihilation spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2001 , 287, 100-103	3.9	2
40	Influence of disorder on the magnetic properties of FeAl alloys: theory. <i>Journal of Non-Crystalline Solids</i> , 2001 , 287, 302-307	3.9	25
39	X-ray diffraction, transmission Mössbauer spectrometry and conversion electron Mössbauer spectroscopy studies of the Fe ₈₇ Zr ₆ B ₆ Cu ₁ nanocrystallization process. <i>Journal of Non-Crystalline Solids</i> , 2001 , 287, 277-281	3.9	5
38	Positron lifetime calculations for defects in Zn. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 9715-9723	1.8	6
37	Characterization of defects in (ZnMg)Se compounds by positron annihilation and photoluminescence. <i>Journal of Applied Physics</i> , 2000 , 88, 1325-1332	2.5	19
36	Magnetic and Mössbauer study of multiphase Fe-Zr amorphous powders obtained by high energy ball milling. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 3101-3112	1.8	15
35	Propiedades electrónicas y magnéticas de las aleaciones Fe-Al. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2000 , 39, 359-362	1.9	2
34	Positron Lifetime Calculations of Hexagonal Metals with the True Geometry. <i>Physica Status Solidi (B): Basic Research</i> , 1998 , 206, 509-518	1.3	9
33	Influence of the short-range order on the magnetic properties of metallic glasses. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 3807-3822	1.8	12
32	Post-implantation annealing of SiC studied by slow-positron spectroscopies. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 1147-1156	1.8	32

31	Temperature dependence of positron trapping at defects in an Al-Li alloy. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 5327-5333	1.8	2
30	Medium-range order as an intrinsic property of Co-rich amorphous alloys. <i>Europhysics Letters</i> , 1997 , 40, 43-48	1.6	11
29	Magnetic and transport properties of Fe - Zr - B - (Cu) amorphous alloys. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 5671-5685	1.8	28
28	Positron annihilation in (X = Ge, Si, Ti) structures. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 1301-1306	0.8	2
27	Stress and annealing induced changes in the Curie temperature of amorphous and nanocrystalline FeZr and FeNb based alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 157-158, 203-204	2.8	9
26	Evidence of strong short-range order in (Fe _{0.2} Co _{0.8}) ₇₅ Si _x B _{25-x} amorphous alloys from EXAFS spectroscopy. <i>Physical Review B</i> , 1996 , 53, 620-628	3.3	20
25	Positron studies of defects in ion-implanted SiC. <i>Physical Review B</i> , 1996 , 54, 3084-3092	3.3	106
24	Tensile stress dependence of the Curie temperature and hyperfine field in Fe-Zr-B-(Cu) amorphous alloys. <i>Physical Review B</i> , 1996 , 54, 3026-3029	3.3	44
23	Fe-57 Mössbauer study of the (FeCo) ₇₅ SiB metallic alloy series. <i>Journal of Applied Physics</i> , 1995 , 77, 3338-3342	3.4	6
22	Correlation between structure and magnetic behavior of Fe-P amorphous alloys. <i>Physical Review B</i> , 1995 , 52, 12805-12812	3.3	25
21	Positron annihilation in II-VI compound semiconductors: theory. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 8809-8827	1.8	43
20	Positron States and Annihilation Rates in II-VI Semiconductors. <i>Materials Science Forum</i> , 1994 , 175-178, 469-472	0.4	10
19	Calculation of positron lifetimes for bulk and vacancy-type defects in Ga simple metal. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 447-452	1.8	2
18	. <i>IEEE Transactions on Magnetism</i> , 1994 , 30, 536-538	2	1
17	Temperature dependence of the Mössbauer spectra of amorphous and nanocrystallized Fe ₈₆ Zr ₇ Cu ₁ B ₆ . <i>Hyperfine Interactions</i> , 1994 , 94, 2199-2205	0.8	23
16	The influence of Li on the nucleation of defects of quenched Al-Li alloys. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 2267-2273		5
15	A positron annihilation study of the formation and dissolution of L12 precipitates in Al-Li alloys. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1994 , 69, 591-596		14
14	Magnetic behavior of Fe-Nb and Fe-Zr alloys nanocrystallized by means of flash annealing. <i>Journal of Applied Physics</i> , 1993 , 73, 6600-6602	2.5	39

13	. <i>IEEE Transactions on Magnetism</i> , 1993 , 29, 2682-2684	2	29
12	Radiation damage in electron-irradiated Al-Li alloys. <i>Physical Review B</i> , 1993 , 47, 2453-2459	3.3	7
11	Positron trapping at vacancies in Ga. <i>Journal of Physics Condensed Matter</i> , 1992 , 4, 5037-5040	1.8	1
10	A Positron Study of Vacancy-Impurity Interaction in Decomposed Cu-Sn Alloy. <i>Materials Science Forum</i> , 1992 , 105-110, 1153-1156	0.4	1
9	A systematic study of positron lifetimes in Al-Li alloys. <i>Scripta Metallurgica Et Materialia</i> , 1992 , 26, 1907-1912	7	
8	EXAFS study of short-range order in (Fe _{0.1} Co _{0.9}) ₇₅ Si ₁₅ B ₁₀ metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 1992 , 151, 51-58	3.9	11
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6	Study of formation and reversion of Guinier-Preston zones in Al-4.5 at%Zn-x at%Mg alloys by positrons. <i>Journal of Materials Science</i> , 1986 , 21, 853-858	4.3	41
5	Positron study of native vacancies in doped and undoped GaAs. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, 331-344		56
4	Detection of Ga vacancies in electron irradiated GaAs by positrons. <i>Applied Physics Letters</i> , 1986 , 48, 809-810	3.4	72
3	Detection of Non Stoichiometric Vacancy Defects in CdTe, HgTe and Hg _{1-x} Cd _x Te by Positron Annihilation. <i>Materials Science Forum</i> , 1986 , 10-12, 1241-1246	0.4	5
2	Vacancy-Zn complexes in InP studied by positrons. <i>Applied Physics Letters</i> , 1985 , 46, 1136-1138	3.4	57
1	Positron-trapping mechanism at grain boundaries. <i>Physical Review B</i> , 1985 , 31, 6941-6946	3.3	14