

Fernando Plazaola

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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	Fundamentals and advances in magnetic hyperthermia. <i>Applied Physics Reviews</i> , 2015 , 2, 041302	17.3	469
173	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
172	Positron lifetime calculation for the elements of the periodic table. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 176222	1.8	132
171	Positron studies of defects in ion-implanted SiC. <i>Physical Review B</i> , 1996 , 54, 3084-3092	3.3	106
170	Detection of Ga vacancies in electron irradiated GaAs by positrons. <i>Applied Physics Letters</i> , 1986 , 48, 809-810	3.4	72
169	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
168	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
167	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
166	Vacancy-Zn complexes in InP studied by positrons. <i>Applied Physics Letters</i> , 1985 , 46, 1136-1138	3.4	57
165	Volume expansion contribution to the magnetism of atomically disordered intermetallic alloys. <i>Physical Review B</i> , 2006 , 74,	3.3	56
164	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
163	Positron study of native vacancies in doped and undoped GaAs. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, 331-344		56
162	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
161	A multifrequency eletromagnetic applicator with an integrated AC magnetometer for magnetic hyperthermia experiments. <i>Measurement Science and Technology</i> , 2014 , 25, 115702	2	51
160	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
159	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
158	Positron annihilation lifetime spectroscopy of ZnO bulk samples. <i>Physical Review B</i> , 2007 , 76,	3.3	43

157	Correlation between Zn vacancies and photoluminescence emission in ZnO films. <i>Journal of Applied Physics</i> , 2006 , 99, 053516	2.5	43
156	Positron annihilation in II-VI compound semiconductors: theory. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 8809-8827	1.8	43
155	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
154	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
153	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	4.7	38
152	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
151	Post-implantation annealing of SiC studied by slow-positron spectroscopies. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 1147-1156	1.8	32
150	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
149	. <i>IEEE Transactions on Magnetism</i> , 1993 , 29, 2682-2684	2	29
148	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
147	A positron study of the defect structures in the D03 and B2 phases in the FeAl system. <i>Acta Materialia</i> , 2005 , 53, 163-172	8.4	28
146	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	1.5	28
145	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
144	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
143	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
142	Correlation between structure and magnetic behavior of Fe-P amorphous alloys. <i>Physical Review B</i> , 1995 , 52, 12805-12812	3.3	25
141	Harmonic phases of the nanoparticle magnetization: An intrinsic temperature probe. <i>Applied Physics Letters</i> , 2015 , 107, 123103	3.4	23
140	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

139	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
138	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
137	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
136	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
135	Study of the weight of different contributions to the magnetic reinforcement in the order-disorder transition of FeAl alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 794-796	2.8	19
134	Near band edge recombination mechanisms in GaTe. <i>Physical Review B</i> , 2003 , 68,	3.3	19
133	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
132	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
131	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
130	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
129	Recombination processes in unintentionally doped GaTe single crystals. <i>Journal of Applied Physics</i> , 2002 , 92, 7330-7336	2.5	17
128	Elastic misfit in two-phase polymer. <i>Polymer</i> , 2009 , 50, 4696-4705	3.9	15
127	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
126	Al versus Si competition in FeSiAl alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, e688-e691	6.91	15
125	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
124	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
123	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
122	A positron annihilation study of the formation and dissolution of L1 ₂ precipitates in Al-Cu alloys. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1994 , 69, 591-596		14

121	Positron-trapping mechanism at grain boundaries. <i>Physical Review B</i> , 1985 , 31, 6941-6946	3.3	14
120	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
119	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
118	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
117	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
116	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
115	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
114	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
113	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
112	Crystallisation and polymorphic transformations in Fe ₇₈ Zr ₂₂ amorphous alloys obtained by high-energy ball milling. <i>Physica B: Condensed Matter</i> , 2004 , 350, E1075-E1077	2.8	12
111	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
110	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
109	Medium-range order as an intrinsic property of Co-rich amorphous alloys. <i>Europhysics Letters</i> , 1997 , 40, 43-48	1.6	11
108	Influence of Cr addition on the defect structure of FeAl alloys. <i>Intermetallics</i> , 2007 , 15, 177-180	3.5	11
107	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
106	EXAFS study of short-range order in (Fe _x Co _{1-x}) ₇₅ Si ₁₅ B ₁₀ metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 1992 , 151, 51-58	3.9	11
105	Characterisation and modelling of vacancy dynamics in Ni ₄₀ Mn ₄₀ Ca ferromagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2015 , 639, 180-186	5.7	10
104	Ceramide increases free volume voids in DPPC membranes. <i>RSC Advances</i> , 2015 , 5, 44282-44290	3.7	10

103	Mesoporous iron phosphate/phosphonate hybrid materials. <i>Microporous and Mesoporous Materials</i> , 2014 , 187, 14-22	5.3	10
102	Vacancy dynamic in Ni-Mn-Ga ferromagnetic shape memory alloys. <i>Applied Physics Letters</i> , 2014 , 104, 231905	3.4	10
101	Positron States and Annihilation Rates in II-VI Semiconductors. <i>Materials Science Forum</i> , 1994 , 175-178, 469-472	0.4	10
100	In situ measurements of free volume during recovery process of a shape memory polymer. <i>Polymer</i> , 2017 , 109, 66-70	3.9	9
99	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
98	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
97	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
96	Influence of addition of Si in FeAl alloys: Theory. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, e692-e695	2.8	9
95	Fe57 Mössbauer and x-ray magnetic circular dichroism study of magnetic compensation of the rare-earth sublattice in Nd ₂ HoxFe ₁₄ B compounds. <i>Physical Review B</i> , 2007 , 76,	3.3	9
94	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
93	Radiation-induced alloy rearrangement in InxGa _{1-x} N. <i>Applied Physics Letters</i> , 2017 , 110, 132104	3.4	8
92	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
91	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
90	Stress induced anisotropy and structural changes in (Co-Fe) ₇₅ Si ₁₅ B ₁₀ amorphous ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1990 , 83, 334-336	2.8	8
89	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
88	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
87	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
86	Calculation of positron characteristics for elements of the periodic table. <i>Journal of Physics: Conference Series</i> , 2011 , 265, 012006	0.3	7

- 85 Theoretical study of the magnetism of the FeAlSi system around the D03 stoichiometric composition. *Journal of Magnetism and Magnetic Materials*, **2007**, 316, e470-e473 2.8 7
- 84 Small-angle neutron-scattering studies of reentrant spin-glass behavior in FeAl alloys. *Journal of Applied Physics*, **2006**, 99, 08H502 2.5 7
- 83 Micro- and macroscopic magnetic study of the disordering (ball milling) and posterior reordering (annealing) of Fe-40 at.% Al. *Journal of Non-Crystalline Solids*, **2001**, 287, 272-276 3.9 7
- 82 Radiation damage in electron-irradiated Al-Li alloys. *Physical Review B*, **1993**, 47, 2453-2459 3.3 7
- 81 A systematic study of positron lifetimes in Al₂Li alloys. *Scripta Metallurgica Et Materialia*, **1992**, 26, 1907-1912 7
- 80 Exploring the potential of the dynamic hysteresis loops via high field, high frequency and temperature adjustable AC magnetometer for magnetic hyperthermia characterization. *International Journal of Hyperthermia*, **2020**, 37, 976-991 3.7 7
- 79 Experimental Observation of Vacancy-assisted Martensitic Transformation Shift in Ni-Fe-Ga Alloys. *Physical Review Letters*, **2019**, 122, 165701 7.4 6
- 78 Study of the intra-arterial distribution of Fe₃O₄ nanoparticles in a model of colorectal neoplasm induced in rat liver by MRI and spectrometry. *International Journal of Nanomedicine*, **2012**, 7, 2399-410 7.3 6
- 77 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. *Journal of Solid State Chemistry*, **2009**, 182, 2193-2201 3.3 6
- 76 Studies on the influence of the order-disorder transition on the magnetic properties of FeAl alloys. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, 1510-1511 2.8 6
- 75 Positron lifetime calculations for defects in Zn. *Journal of Physics Condensed Matter*, **2000**, 12, 9715-9723 3.8 6
- 74 Fe-57 Mössbauer study of the (FeCo)₇₅SiB metallic alloy series. *Journal of Applied Physics*, **1995**, 77, 3338-3342 3.4 6
- 73 Shaping Up Zn-Doped Magnetite Nanoparticles from Mono- and Bimetallic Oleates: The Impact of Zn Content, Fe Vacancies, and Morphology on Magnetic Hyperthermia Performance. *Chemistry of Materials*, **2021**, 33, 3139-3154 9.6 6
- 72 Sub-lattice polarization states in anti-ferroelectrics and their relaxation process. *Current Applied Physics*, **2019**, 19, 651-656 2.6 5
- 71 . *IEEE Transactions on Dielectrics and Electrical Insulation*, **2017**, 24, 1840-1851 2.3 5
- 70 Thermal Stability of Mg_yTi_{1-y} Thin Films Investigated by Positron Annihilation Spectroscopy. *Physics Procedia*, **2012**, 35, 16-21 5
- 69 Magnetic and structural characterization of thiol capped ferromagnetic Ag nanoparticles. *Journal of Applied Physics*, **2010**, 107, 09E317 2.5 5
- 68 Structural study of the re-entrant spin-glass behaviour of FeAl alloys. *Journal of Magnetism and Magnetic Materials*, **2007**, 316, e488-e491 2.8 5

67	Mössbauer study of the martensitic transformation in a Ni ₅₀ Fe ₅₀ shape memory alloy. <i>Hyperfine Interactions</i> , 2007 , 168, 1207-1210	0.8	5
66	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
65	The influence of Li on the nucleation of defects of quenched Al ₃ Li alloys. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 2267-2273		5
64	Detection of Non Stoichiometric Vacancy Defects in CdTe, HgTe and Hg _{1-x} CdxTe by Positron Annihilation. <i>Materials Science Forum</i> , 1986 , 10-12, 1241-1246	0.4	5
63	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
62	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
61	Dislocation Movement in WE43 Magnesium Alloy during Recovery and Recrystallisation. <i>Materials Transactions</i> , 2011 , 52, 1016-1025	1.3	4
60	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
59	Mössbauer studies of the re-entrant spin-glass behaviour of Fe ₅₀ Al alloys. <i>Hyperfine Interactions</i> , 2007 , 169, 1231-1234	0.8	4
58	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
57	Instrumentation for Magnetic Hyperthermia 2019 , 111-138		3
56	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
55	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
54	Positron Annihilation Spectroscopy Study of Ni-Mn-Ga Ferromagnetic Shape Memory Alloys. <i>Physics Procedia</i> , 2012 , 35, 57-62		3
53	Fe-Al AlloysPMagnetism 2012 ,		3
52	Positron Annihilation Spectroscopy Study of NiMnGa Modulated and Non-Modulated Martensitic Phases. <i>Materials Science Forum</i> , 2009 , 635, 55-61	0.4	3
51	Ferromagnetic resonance study of Fe rich Fe ₅₀ Al intermetallic alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e484-e487	2.8	3
50	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

49	Cationic Order in Double Perovskite Oxide, $\text{Sr}_2\text{Fe}_{1-x}\text{Sc}_x\text{ReO}_6$ ($x = 0.05, 0.1$). <i>Hyperfine Interactions</i> , 2005 , 161, 113-122	0.8	3
48	Influence of the order-disorder transition on the magnetic properties of $\text{Fe}_{75}\text{Al}_{25-x}\text{Si}_x$ alloys. <i>Intermetallics</i> , 2016 , 69, 35-41	3.5	2
47	^{119}Sn Mössbauer spectroscopy in the study of metamagnetic shape memory alloys. <i>Hyperfine Interactions</i> , 2018 , 239, 1	0.8	2
46	Mössbauer study of mechanical deformation induced order-disorder transition in $\text{Fe}_{75}\text{AlSi}$ alloys. <i>Hyperfine Interactions</i> , 2012 , 206, 131-134	0.8	2
45	Positron annihilation in ($X = \text{Ge}, \text{Si}, \text{Ti}$) structures. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 1301-1306.	0.8	2
44	. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 4206-4209	2	2
43	Dynamics of the Magnetic Susceptibility of $\text{Fe}_{1-x}\text{Al}_x$ ($x = 70, 71$) Alloys. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 3883-3886	2	2
42	Systematic study of the reordering process in FeAl alloys by neutron diffraction. <i>Journal of Non-Crystalline Solids</i> , 2003 , 329, 39-42	3.9	2
41	Influence of Plastic Deformation on the Magnetic Properties of Fe-Al Alloys. <i>AIP Conference Proceedings</i> , 2005 ,	0	2
40	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
39	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
38	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
37	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
36	Influence of Structural Defects on the Properties of Metamagnetic Shape Memory Alloys. <i>Metals</i> , 2020 , 10, 1131	2.3	2
35	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
34	Mössbauer spectroscopy study of the disordering process of $\text{Fe}_{70}\text{Si}_{30}$ alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S169-S172	5.7	1
33	Si/Al influence on $\text{Fe}_{70}\text{Al}_{30-x}\text{Si}_x$ alloys. <i>Hyperfine Interactions</i> , 2012 , 206, 125-129	0.8	1
32	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

31	Determination of defect content and defect profile in semiconductor heterostructures. <i>Journal of Physics: Conference Series</i> , 2011 , 265, 012004	0.3	1
30	Temperature- and illumination-induced charge-state change in divacancies of GaTe. <i>Physical Review B</i> , 2010 , 81,	3.3	1
29	Mössbauer spectroscopy study of the influence of Si addition to ordered and disordered Fe60Al40 alloys. <i>Journal of Physics: Conference Series</i> , 2010 , 217, 012078	0.3	1
28	Thermal Creation of Defects in GaTe. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 8719-8722	1.4	1
27	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
26	Mössbauer study of the crystallization products of a Fe75Zr25 amorphous alloy. <i>Hyperfine Interactions</i> , 2007 , 165, 161-165	0.8	1
25	Magnetic Evolution with Composition on Fe-rich Fe-Al Alloys by Mössbauer spectroscopy. <i>AIP Conference Proceedings</i> , 2005 ,	0	1
24	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
23	. <i>IEEE Transactions on Magnetism</i> , 1994 , 30, 536-538	2	1
22	Positron trapping at vacancies in Ga. <i>Journal of Physics Condensed Matter</i> , 1992 , 4, 5037-5040	1.8	1
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