Fernando Plazaola

List of Publications by Year
in descending order

184	3,808	159585 30	155660 55
papers	citations	h-index	g-index

186	186	186	4198
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fundamentals and advances in magnetic hyperthermia. Applied Physics Reviews, 2015, 2, 041302.	11.3	615
2	Chemically Induced Permanent Magnetism in Au, Ag, and Cu Nanoparticles:â€‰ Localization of the Magnetism by Element Selective Techniques. Nano Letters, 2008, 8, 661-667.	9.1	220
3	Positron lifetime calculation for the elements of the periodic table. Journal of Physics Condensed Matter, 2007, 19, 176222.	1.8	172
4	Positron studies of defects in ion-implanted SiC. Physical Review B, 1996, 54, 3084-3092.	3.2	111
5	Tuning Sizes, Morphologies, and Magnetic Properties of Monocore Versus Multicore Iron Oxide Nanoparticles through the Controlled Addition of Water in the Polyol Synthesis. Inorganic Chemistry, 2017, 56, 8232-8243.	4.0	83
6	A wide-frequency range AC magnetometer to measure the specific absorption rate in nanoparticles for magnetic hyperthermia. Journal of Magnetism and Magnetic Materials, 2014, 368, 432-437.	2.3	81
7	Specific absorption rate dependence on temperature in magnetic field hyperthermia measured by dynamic hysteresis losses (ac magnetometry). Nanotechnology, 2015, 26, 015704.	2.6	80
8	Chemical Synthesis and Magnetic Properties of Monodisperse Nickel Ferrite Nanoparticles for Biomedical Applications. Journal of Physical Chemistry C, 2016, 120, 3492-3500.	3.1	77
9	Detection of Ga vacancies in electron irradiated GaAs by positrons. Applied Physics Letters, 1986, 48, 809-810.	3.3	74
10	A multifrequency eletromagnetic applicator with an integrated AC magnetometer for magnetic hyperthermia experiments. Measurement Science and Technology, 2014, 25, 115702.	2.6	69
11	Vacancyâ€Zn complexes in InP studied by positrons. Applied Physics Letters, 1985, 46, 1136-1138.	3.3	60
12	Positron study of native vacancies in doped and undoped GaAs. Journal of Physics C: Solid State Physics, 1986, 19, 331-344.	1.5	60
13	Volume expansion contribution to the magnetism of atomically disordered intermetallic alloys. Physical Review B, 2006, 74, .	3.2	59
14	Zinc vacancies in the heteroepitaxy of ZnO on sapphire: Influence of the substrate orientation and layer thickness. Applied Physics Letters, 2005, 86, 042103.	3.3	57
15	Electronic structure calculations of Fe-rich ordered and disordered Fe-Al alloys. European Physical Journal B, 2003, 31, 167-177.	1.5	52
16	Tensile stress dependence of the Curie temperature and hyperfine field in Fe-Zr-B-(Cu) amorphous alloys. Physical Review B, 1996, 54, 3026-3029.	3.2	50
17	Fe₃O₄nanoparticles prepared by the seeded-growth route for hyperthermia: electron magnetic resonance as a key tool to evaluate size distribution in magnetic nanoparticles. Nanoscale, 2014, 6, 7542-7552.	5.6	50
18	Positron annihilation lifetime spectroscopy of ZnO bulk samples. Physical Review B, 2007, 76, .	3.2	47

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19	Positron annihilation in II-VI compound semiconductors: theory. Journal of Physics Condensed Matter, 1994, 6, 8809-8827.	1.8	46
20	Correlation between Zn vacancies and photoluminescence emission in ZnO films. Journal of Applied Physics, 2006, 99, 053516.	2.5	46
21	Study of formation and reversion of Guinier-Preston zones in Al-4.5 at%Zn-x at%Mg alloys by positrons. Journal of Materials Science, 1986, 21, 853-858.	3.7	45
22	Study of the enhancement of the magnetic properties of Fe70Al30 in the order-disorder transition. Journal of Applied Physics, 2003, 93, 7649-7651.	2.5	43
23	Magnetic behavior of Feâ€Nb and Feâ€Zr alloys nanocrystallized by means of flash annealing. Journal of Applied Physics, 1993, 73, 6600-6602.	2.5	42
24	Collection of Data on Positron Lifetimes and Vacancy Formation Energies of the Elements of the Periodic Table. Defect and Diffusion Forum, 2003, 213-215, 141-0.	0.4	38
25	Outstanding heat loss via nano-octahedra above 20 nm in size: from wustite-rich nanoparticles to magnetite single-crystals. Nanoscale, 2019, 11, 16635-16649.	5.6	38
26	Antitumor magnetic hyperthermia induced by RGD-functionalized Fe₃O₄ nanoparticles, in an experimental model of colorectal liver metastases. Beilstein Journal of Nanotechnology, 2016, 7, 1532-1542.	2.8	36
27	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.	2.5	33
28	Post-implantation annealing of SiC studied by slow-positron spectroscopies. Journal of Physics Condensed Matter, 1998, 10, 1147-1156.	1.8	32
29	A positron study of the defect structures in the D03 and B2 phases in the Feâ€“Al system. Acta Materialia, 2005, 53, 163-172.	7.9	32
30	Magnetic and transport properties of Fe - Zr - B - (Cu) amorphous alloys. Journal of Physics Condensed Matter, 1997, 9, 5671-5685.	1.8	31
31	Magnetic and Mossbauer study of amorphous and nanocrystalline Fe/sub 86/Zr/sub 7/Cu/sub 1/B/sub 6/ alloys. IEEE Transactions on Magnetics, 1993, 29, 2682-2684.	2.1	30
32	Detection of Atomic Scale Changes in the Free Volume Void Size of Three-Dimensional Colorectal Cancer Cell Culture Using Positron Annihilation Lifetime Spectroscopy. PLoS ONE, 2014, 9, e83838.	2.5	30
33	Harmonic phases of the nanoparticle magnetization: An intrinsic temperature probe. Applied Physics Letters, 2015, 107, .	3.3	30
34	Influence of disorder on the magnetic properties of FeAl alloys: theory. Journal of Non-Crystalline Solids, 2001, 287, 302-307.	3.1	29
35	Positron annihilation spectroscopy for the determination of thickness and defect profile in thin semiconductor layers. Physical Review B, 2007, 75, .	3.2	28
36	Magnetic property enhancement and characterization of nano-structured barium ferrite by mechano-thermal treatment. Materials Characterization, 2012, 63, 83-89.	4.4	27

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37	Highly Reproducible Hyperthermia Response in Water, Agar, and Cellular Environment by Discretely PEGylated Magnetite Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 27917-27929.	8.0	27
38	Correlation between structure and magnetic behavior of Fe-P amorphous alloys. Physical Review B, 1995, 52, 12805-12812.	3.2	25
39	Influence of volume and Fe local environment on magnetic properties of Fe-rich Feâ€“Al alloys. Intermetallics, 2012, 24, 38-49.	3.9	25
40	Temperature dependence of the MÃ¶ssbauer spectra of amorphous and nanocrystallized Fe86Zr7Cu1B6. Hyperfine Interactions, 1994, 94, 2199-2205.	0.5	24
41	Near band edge recombination mechanisms in GaTe. Physical Review B, 2003, 68, .	3.2	24
42	Proposal of New Safety Limits for In Vivo Experiments of Magnetic Hyperthermia Antitumor Therapy. Cancers, 2022, 14, 3084.	3.7	23
43	Evidence of strong short-range order in (Fe0.2Co0.8)75SixB25â^'xamorphous alloys from EXAFS spectroscopy. Physical Review B, 1996, 53, 620-628.	3.2	22
44	Recombination processes in unintentionally doped GaTe single crystals. Journal of Applied Physics, 2002, 92, 7330-7336.	2.5	21
45	Characterization of defects in (ZnMg)Se compounds by positron annihilation and photoluminescence. Journal of Applied Physics, 2000, 88, 1325-1332.	2.5	19
46	Magnetic and MÃ¶ssbauer study of multiphase Fe-Zr amorphous powders obtained by high energy ball milling. Journal of Physics Condensed Matter, 2000, 12, 3101-3112.	1.8	19
47	Fe doping in La0.7Sr0.3MnO3 magnetoresistant perovskite. Journal of Alloys and Compounds, 2001, 323-324, 440-443.	5.5	19
48	Study of the weight of different contributions to the magnetic reinforcement in the orderâ€“disorder transition of FeAl alloys. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 794-796.	2.3	19
49	Magnetic properties of the Fe-rich Fe Al1â^' alloy system. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1342-1344.	2.3	19
50	119Sn MÃ¶ssbauer spectroscopy for assessing the local stress and defect state towards the tuning of Ni-Mn-Sn alloys. Applied Physics Letters, 2017, 110, .	3.3	19
51	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.	6.7	19
52	Coreâ€“Shell Fe₃O₄@Au Nanorod-Loaded Gels for Tunable and Anisotropic Magneto- and Photothermia. ACS Applied Materials & Interfaces, 2022, 14, 7130-7140.	8.0	19
53	Non-conventional magnetic order in Fe-substituted La0.7Sr0.3MnO3giant-magnetoresistance manganites. Journal of Physics Condensed Matter, 2002, 14, 12563-12573.	1.8	18
54	Correlation between defects and magneto-structural properties in Ni-Mn-Sn metamagnetic shape memory alloys. Intermetallics, 2018, 94, 133-137.	3.9	18

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55	Al versus Si competition in FeSiAl alloys. Journal of Magnetism and Magnetic Materials, 2008, 320, e688-e691.	2.3	17
56	Structural and magnetic study of mechanically deformed Fe rich FeAlSi ternary alloys. Journal of Alloys and Compounds, 2012, 536, S282-S286.	5.5	17
57	Cholesterolâ€“Ceramide Interactions in Phospholipid and Sphingolipid Bilayers As Observed by Positron Annihilation Lifetime Spectroscopy and Molecular Dynamics Simulations. Langmuir, 2016, 32, 5434-5444.	3.5	17
58	Positron-trapping mechanism at grain boundaries. Physical Review B, 1985, 31, 6941-6946.	3.2	16
59	A positron annihilation study of the formation and dissolution of L1₂precipitates in Alâ€”Li alloys. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1994, 69, 591-596.	0.6	16
60	Mechanism of magnetic recovery in the disorder-order transformation ofFe70Al30mechanically deformed alloys. Physical Review B, 2005, 71, .	3.2	16
61	The role of vacancies in the mobility of dislocations and grain boundaries in magnesium. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1077-1092.	1.8	16
62	Elastic misfit in two-phase polymer. Polymer, 2009, 50, 4696-4705.	3.8	16
63	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Fe</mml:mi><mml:mprescripts /><mml:none /><mml:mn>57</mml:mn></mml:mmultiscripts></mml:math>MÃ¶ssbauer and x-ray magnetic circular dichroism study of magnetic compensation of the rare-earth sublattice in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Nd</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^’</mml:mo><mml:mi>.	3.2	15
64	Mechanically induced disorder and crystallization process in Ni-Mn-In ball-milled alloys. Journal of Alloys and Compounds, 2016, 689, 983-991.	5.5	15
65	Influence of the short-range order on the magnetic properties of metallic glasses. Journal of Physics Condensed Matter, 1998, 10, 3807-3822.	1.8	14
66	Evolution of the magnetic properties of ordered Fe70Al30 alloy with mechanical milling time. Sensors and Actuators A: Physical, 2003, 106, 76-79.	4.1	14
67	Magnetocaloric effect enhancement driven by intrinsic defects in a Ni45Co5Mn35Sn15 alloy. Journal of Alloys and Compounds, 2019, 774, 586-592.	5.5	14
68	Thiol-capped ferromagnetic Au nanoparticles investigated by Au L3 x-ray absorption spectroscopy. Journal of Applied Physics, 2009, 105, 07A907.	2.5	13
69	Magnetic and structural characterization of thiol capped ferromagnetic Ag nanoparticles. Journal of Applied Physics, 2010, 107, .	2.5	13
70	Mesoporous iron phosphate/phosphonate hybrid materials. Microporous and Mesoporous Materials, 2014, 187, 14-22.	4.4	13
71	EXAFS study of short-range order in (FexCo1â^’x)75Si15B10 metallic glasses. Journal of Non-Crystalline Solids, 1992, 151, 51-58.	3.1	12
72	Medium-range order as an intrinsic property of Co-rich amorphous alloys. Europhysics Letters, 1997, 40, 43-48.	2.0	12

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73	Crystallisation and polymorphic transformations in Feâ€“Zr amorphous alloys obtained by high-energy ball milling. Physica B: Condensed Matter, 2004, 350, E1075-E1077.	2.7	12
74	Influence of Cr addition on the defect structure of Feâ€“Al alloys. Intermetallics, 2007, 15, 177-180.	3.9	12
75	Modification of the mesoscopic structure in neutron irradiated EPDM viewed through positron annihilation spectroscopy and dynamic mechanical analysis. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 336-344.	1.4	12
76	Connecting free volume with shape memory properties in noncytotoxic gammaâ€irradiated polycyclooctene. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1080-1088.	2.1	12
77	Characterisation and modelling of vacancy dynamics in Niâ€“Mnâ€“Ga ferromagnetic shape memory alloys. Journal of Alloys and Compounds, 2015, 639, 180-186.	5.5	12
78	Ceramide increases free volume voids in DPPC membranes. RSC Advances, 2015, 5, 44282-44290.	3.6	12
79	In situ measurements of free volume during recovery process of a shape memory polymer. Polymer, 2017, 109, 66-70.	3.8	12
80	Identification of a Ni-vacancy defect in Ni-Mn- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Z</mml:mi></mml:math> (<mml:math) Tj ETQq0 0 0 rgBT /Overlock 1 experimental and DFT positron-annihilation study. Physical Review B, 2019, 99, .	3.2	12
81	Positron Lifetime Calculations of Hexagonal Metals with the True Geometry. Physica Status Solidi (B): Basic Research, 1998, 206, 509-518.	1.5	11
82	Defect characterization of ZnBeSe solid solutions by means of positron annihilation and photoluminescence techniques. Journal of Applied Physics, 2003, 94, 1647-1653.	2.5	11
83	Vacancy dynamic in Ni-Mn-Ga ferromagnetic shape memory alloys. Applied Physics Letters, 2014, 104, .	3.3	11
84	Radiation-induced alloy rearrangement in InxGa1â^'xN. Applied Physics Letters, 2017, 110, .	3.3	11
85	Positron States and Annihilation Rates in II-VI Semiconductors. Materials Science Forum, 1994, 175-178, 469-472.	0.3	10
86	Stress and annealing induced changes in the Curie temperature of amorphous and nanocrystalline FeZr and FeNb based alloys. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 203-204.	2.3	9
87	Study of the structure influence on the magnetism of Fe70Al30 alloy. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 136-139.	2.3	9
88	Theoretical study of the magnetism of the FeAlSi system around the D03 stoichiometric composition. Journal of Magnetism and Magnetic Materials, 2007, 316, e470-e473.	2.3	9
89	Influence of addition of Si in FeAl alloys: Theory. Journal of Magnetism and Magnetic Materials, 2008, 320, e692-e695.	2.3	9
90	Calculation of positron characteristics for elements of the periodic table. Journal of Physics: Conference Series, 2011, 265, 012006.	0.4	9

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91	Effect of high-energy ball-milling on the magnetostructural properties of a Ni45Co5Mn35Sn15 alloy. Journal of Alloys and Compounds, 2021, 858, 158350.	5.5	9
92	Stress induced anisotropy and structural changes in (Co-Fe)75Si15B10 amorphous ribbons. Journal of Magnetism and Magnetic Materials, 1990, 83, 334-336.	2.3	8
93	Positron lifetime calculations for defects in Zn. Journal of Physics Condensed Matter, 2000, 12, 9715-9723.	1.8	8
94	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.	3.1	8
95	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, 2191-2201.	2.9	8
96	Magnetic study of the influence of Si/Al substitution in ordered Fe75Al25, Fe70Al30 and Fe60Al40. Intermetallics, 2010, 18, 1288-1292.	3.9	8
97	Thermal Stability of MgyTi1-y Thin Films Investigated by Positron Annihilation Spectroscopy. Physics Procedia, 2012, 35, 16-21.	1.2	8
98	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.	6.7	8
99	Sub-nanoscale free volume and local elastic modulus of chitosanâ€“carbon nanotube biomimetic nanocomposite scaffold-materials. Journal of Materials Chemistry B, 2015, 3, 3169-3176.	5.8	8
100	Experimental Observation of Vacancy-assisted Martensitic Transformation Shift in Ni-Fe-Ga Alloys. Physical Review Letters, 2019, 122, 165701.	7.8	8
101	Sub-lattice polarization states in anti-ferroelectrics and their relaxation process. Current Applied Physics, 2019, 19, 651-656.	2.4	8
102	A systematic study of positron lifetimes in Alî—¸Li alloys. Scripta Metallurgica Et Materialia, 1992, 26, 1907-1912.	1.0	7
103	Radiation damage in electron-irradiated Al-Li alloys. Physical Review B, 1993, 47, 2453-2459.	3.2	7
104	X-ray diffraction, transmission MÃ¶ssbauer spectrometry and conversion electron MÃ¶ssbauer spectroscopy studies of the Fe87Zr6B6Cu1 nanocrystallization process. Journal of Non-Crystalline Solids, 2001, 287, 277-281.	3.1	7
105	Studies on the influence of the orderâ€“disorder transition on the magnetic properties of Feâ€“Al alloys. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1510-1511.	2.3	7
106	Small-angle neutron-scattering studies of reentrant spin-glass behavior in Feâ€“Al alloys. Journal of Applied Physics, 2006, 99, 08H502.	2.5	7
107	Sensitiveness of the ratio between monovacancy and bulk positron lifetimes to the approximations used in the calculations: Periodic behaviour. Solid State Sciences, 2012, 14, 982-987.	3.2	7
108	On the interplay of point defects and Cd in non-polar ZnCdO films. Journal of Applied Physics, 2013, 113, 023512.	2.5	7

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109	Instrumentation for Magnetic Hyperthermia. , 2019, , 111-138.		7
110	Neutron Scattering as a Powerful Tool to Investigate Magnetic Shape Memory Alloys: A Review. Metals, 2021, 11, 829.	2.3	7
111	Detection of Non Stoichiometric Vacancy Defects in CdTe, HgTe and Hg_{1-x} Cd_xTe by Positron Annihilation. Materials Science Forum, 1986, 10-12, 1241-1246.	0.3	6
112	The influence of Li on the nucleation of defects of quenched Alî—¸Li alloys. Acta Metallurgica Et Materialia, 1994, 42, 2267-2273.	1.8	6
113	Feâ€57 MÃ¶ssbauer study of the (FeCo)75SiB metallic alloy series. Journal of Applied Physics, 1995, 77, 3338-3342.	2.5	6
114	Structural study of the re-entrant spin-glass behaviour of Feâ€“Al alloys. Journal of Magnetism and Magnetic Materials, 2007, 316, e488-e491.	2.3	6
115	MÃ¶ssbauer study of the martensitic transformation in a Niâ€“Feâ€“Ga shape memory alloy. Hyperfine Interactions, 2007, 168, 1207-1210.	0.5	6
116	Influence of Structural Defects on the Properties of Metamagnetic Shape Memory Alloys. Metals, 2020, 10, 1131.	2.3	6
117	Cationic Order in Double Perovskite Oxide, Sr2Fe1âˆ'x Sc x ReO6 (x = 0.05, 0.1). Hyperfine Interactions, 2005, 161, 113-122.	0.5	5
118	MÃ¶ssbauer studies of the re-entrant spin-glass behaviour of Feâ€“Al alloys. Hyperfine Interactions, 2007, 169, 1231-1234.	0.5	5
119	Specific Absorption Rate of Magnetite Nanoparticle Powders With and Without Surrounding Organic Ligands. Journal of Nanoscience and Nanotechnology, 2012, 12, 7451-7455.	0.9	5
120	Observation of a charge delocalization from Se vacancies in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:m A positron annihilation study of native defects. Physical Review B, 2016, 94, .	2.2	5
121	Influence of the order-disorder transition on the magnetic properties of Fe75Al25-xSix alloys. Intermetallics, 2016, 69, 35-41.	3.9	5
122	Study of dielectric strength in EPDM by nondestructive dynamic mechanical analysis in high electrical field. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1840-1851.	2.9	5
123	119Sn MÃ¶ssbauer spectroscopy in the study of metamagnetic shape memory alloys. Hyperfine Interactions, 2018, 239, 1.	0.5	5
124	Testing the Applicability of 119Sn MÃ¶ssbauer Spectroscopy for the Internal Stress Study in Ternary and Co-Doped Ni-Mn-Sn Metamagnetic Alloys. Metals, 2021, 11, 450.	2.3	5
125	Dislocation Movement in WE43 Magnesium Alloy during Recovery and Recrystallisation. Materials Transactions, 2011, 52, 1016-1025.	1.2	4
126	Fe-Al Alloys' Magnetism. , 0, , .		4

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127	Low temperature magnetic properties of a Ni50Mn34In16 ball-milled metamagnetic shape memory alloy. Journal of Non-Crystalline Solids, 2016, 447, 16-20.	3.1	4
128	Temperature dependence of positron trapping at defects in an Al-Li alloy. Journal of Physics Condensed Matter, 1998, 10, 5327-5333.	1.8	3
129	Free-volume evolution in the system polycarbonateâ€“polycaprolaptone studied by positron annihilation spectroscopy. Journal of Non-Crystalline Solids, 2001, 287, 100-103.	3.1	3
130	Ferromagnetic resonance study of Fe rich Feâ€“Al intermetallic alloys. Journal of Magnetism and Magnetic Materials, 2007, 316, e484-e487.	2.3	3
131	Systematic study of mechanical deformation on Fe3Al x Si1â^'x powders by MÃ¶ssbauer spectroscopy. Hyperfine Interactions, 2007, 169, 1217-1222.	0.5	3
132	Positron Annihilation Spectroscopy Study of NiMnGa Modulated and Non-Modulated Martensitic Phases. Materials Science Forum, 0, 635, 55-61.	0.3	3
133	Positron Annihilation Spectroscopy Study of Ni-Mn-Ga Ferromagnetic Shape Memory Alloys. Physics Procedia, 2012, 35, 57-62.	1.2	3
134	Fluorinated mixed valence Fe(<scp>ii</scp>)â€“Fe(<scp>iii</scp>) phosphites with channels templated by linear tetramine chains. Structural and magnetic implications of partial replacement of Fe(<scp>ii</scp>) by Co(<scp>ii</scp>). CrystEngComm, 2014, 16, 6066-6079.	2.6	3
135	Magnetic transition induced by mechanical deformation in Fe60Al40â^'xSix ternary alloys. Journal of Alloys and Compounds, 2014, 586, S301-S304.	5.5	3
136	Vacancies mediated ordering in Ni-Mn-Ga shape memory alloys. Scripta Materialia, 2022, 215, 114731.	5.2	3
137	Positron trapping at vacancies in Ga. Journal of Physics Condensed Matter, 1992, 4, 5037-5040.	1.8	2
138	A Positron Study of Vacancy-Impurity Interaction in Decomposed Cu-Sn Alloy. Materials Science Forum, 1992, 105-110, 1153-1156.	0.3	2
139	Calculation of positron lifetimes for bulk and vacancy-type defects in Ga simple metal. Journal of Physics Condensed Matter, 1994, 6, 447-452.	1.8	2
140	Positron annihilation in (X = Ge, Si, Ti) structures. Journal of Physics Condensed Matter, 1996, 8, 1301-1306.	1.8	2
141	The local structure from two experimental atomic probes: EXAFS and MÃ¶ssbauer spectroscopies. Journal of Non-Crystalline Solids, 2001, 287, 75-80.	3.1	2
142	Systematic study of the reordering process in FeAl alloys by neutron diffraction. Journal of Non-Crystalline Solids, 2003, 329, 39-42.	3.1	2
143	Influence of Plastic Deformation on the Magnetic Properties of Fe-Al Alloys. AIP Conference Proceedings, 2005, , .	0.4	2
144	MÃ¶ssbauer study of the crystallization products of a Fe75Zr25 amorphous alloy. Hyperfine Interactions, 2007, 165, 161-165.	0.5	2

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145	A Magnetic and MÃ–ssbauer Spectral Study of the ${m Lu}{({m Al}_{1-{m x}}{m Fe}_{m x})}_{2}$ Compounds. IEEE Transactions on Magnetics, 2008, 44, 4206-4209.	2.1	2
146	Dynamics of the Magnetic Susceptibility of Fe$_{x}$Al$_{100 - {m x}} ({m x} = 70, 71)$ Alloys. IEEE Transactions on Magnetics, 2008, 44, 3883-3886.	2.1	2
147	MÃ¶ssbauer study of mechanical deformation induced order-disorder transition in Fe75AlSi alloys. Hyperfine Interactions, 2012, 206, 131-134.	0.5	2
148	Mechanical energy losses in commercial crosslinked lowâ€density polyethylene in the temperature range between 200 and 400â€‰K. Journal of Applied Polymer Science, 2019, 136, 47605.	2.6	2
149	Biochemical and Metabolomic Changes after Electromagnetic Hyperthermia Exposure to Treat Colorectal Cancer Liver Implants in Rats. Nanomaterials, 2021, 11, 1318.	4.1	2
150	Changes in the crystalline degree in neutron irradiated EPDM viewed through infrared spectroscopy and inelastic neutron scattering. Revista Materia, 2018, 23, .	0.2	2
151	Propiedades electrÃ³nicas y magnÃ©ticas de las aleaciones Fe-Al. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2000, 39, 359-362.	1.9	2
152	Mossbauer study of amorphous (FeTM)/sub 80/B/sub 20/. IEEE Transactions on Magnetics, 1994, 30, 536-538.	2.1	1
153	Magnetic Evolution with Composition on Fe-rich Fe-Al Alloys by Moì¨ssbauer spectroscopy. AIP Conference Proceedings, 2005, , .	0.4	1
154	New method for the determination of the defect profile in thin layers grown over a substrate. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3973-3976.	0.8	1
155	Thermal Creation of Defects in GaTe. Japanese Journal of Applied Physics, 2008, 47, 8719-8722.	1.5	1
156	Influence of Structure on the Magnetism of Fe1-xAlx Alloys. Materials Research Society Symposia Proceedings, 2008, 1128, 209.R301.	0.1	1
157	Temperature- and illumination-induced charge-state change in divacancies of GaTe. Physical Review B, 2010, 81, .	3.2	1
158	MÃ¶sbauer spectroscopy study of the influence of Si addition to ordered and disordered Fe60Al40alloys. Journal of Physics: Conference Series, 2010, 217, 012078.	0.4	1
159	Determination of defect content and defect profile in semiconductor heterostructures. Journal of Physics: Conference Series, 2011, 265, 012004.	0.4	1
160	Tailoring biocompatible Fe3O4 nanoparticles for applications to magnetic hyperthermia. , 2012, , .		1
161	Si/Al influence on Fe70Al30â€‰â^'â€‰xSix alloys. Hyperfine Interactions, 2012, 206, 125-129.	0.5	1
162	Defects interaction processes in deformed high purity polycrystalline molybdenum at elevated temperatures. Journal of Nuclear Materials, 2014, 453, 1-7.	2.7	1

#	Article	IF	Citations
163	MÃ¶ssbauer spectroscopy study of the disordering process of Fe70Si30 alloy. Journal of Alloys and Compounds, 2014, 615, S169-S172.	5.5	1
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