Jhon J Ipus

List of Publications by Year
in descending order

54 papers	1,790 citations	516681 16 h-index	265191 42 g-index
55 all docs	55 docs citations	55 times ranked	1435 citing authors

#	Article	IF	Citations
1	Kinetic Analysis of the Transformation from 14M Martensite to L21 Austenite in Ni-Fe-Ga Melt Spun Ribbons. Metals, 2021, 11, 849.	2.3	4
2	Devitrification of Mechanically Alloyed Fe-Nb System: MÃ¶ssbauer Study of the Intermetallic Phases. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 1395-1401.	2.2	3
3	Milling effects on the distribution of Curie temperatures and magnetic properties of Ni-doped La0Â·7Ca0Â·3MnO3 compounds. Journal of Alloys and Compounds, 2020, 848, 156566.	5.5	6
4	Obtaining magnetocaloric MnCo(Fe)Ge intermetallics from low temperature treatment of mechanically alloyed precursors. Journal of Magnetism and Magnetic Materials, 2020, 514, 167127.	2.3	3
5	Effect of pressure on the phase stability and magnetostructural transitions in nickel-rich NiFeGa ribbons. Journal of Alloys and Compounds, 2020, 844, 156092.	5.5	7
6	Distribution of Transition Temperatures in Magnetic Transformations: Sources, Effects and Procedures to Extract Information from Experimental Data. Metals, 2020, 10, 226.	2.3	9
7	Study of the kinetics and products of the devitrification process of mechanically amorphized Fe70Zr30 alloy. Journal of Alloys and Compounds, 2020, 825, 154021.	5.5	4
8	Influence of Milling Time on the Homogeneity and Magnetism of a Fe70Zr30 Partially Amorphous Alloy: Distribution of Curie Temperatures. Materials, 2020, 13, 490.	2.9	5
9	Mechanical Amorphization and Recrystallization of Mn-Co(Fe)-Ge(Si) Compositions. Metals, 2019, 9, 534.	2.3	6
10	A procedure to obtain the parameters of Curie temperature distribution from thermomagnetic and magnetocaloric data. Journal of Non-Crystalline Solids, 2019, 520, 119460.	3.1	10
11	Evolution of Fe environments and phase composition during mechanical amorphization of Fe70Zr30 and Fe70Nb30 alloys. Journal of Non-Crystalline Solids, 2018, 494, 78-85.	3.1	15
12	Magnetocaloric effect: From materials research to refrigeration devices. Progress in Materials Science, 2018, 93, 112-232.	32.8	1,031
13	Correction of the shape effect on magnetic entropy change in ball milled Fe70Zr30 alloys. Journal of Alloys and Compounds, 2018, 765, 437-443.	5.5	10
14	On the Use of JMAK Theory to Describe Mechanical Amorphization: A Comparison between Experiments, Numerical Solutions and Simulations. Metals, 2018, 8, 450.	2.3	12
15	Grinding and particle size selection as a procedure to enhance the magnetocaloric response of La(Fe,Si)13 bulk samples. Intermetallics, 2017, 84, 30-34.	3.9	14
16	Ball milling as a way to produce magnetic and magnetocaloric materials: a review. Journal of Materials Science, 2017, 52, 11834-11850.	3.7	41
17	Tunable magnetocaloric effect around room temperature by Fe doping in Mn0.98Cr(0.02-x)FexAs compound. Journal of Magnetism and Magnetic Materials, 2017, 436, 85-90.	2.3	2
18	Time evolution of mechanical amorphization: A kinetic model. Scripta Materialia, 2017, 130, 260-263.	5.2	3

#	Article	IF	Citations
19	Analysis of the Magnetocaloric Effect in Powder Samples Obtained by Ball Milling. Metallurgical and Materials Transactions E, 2015, 2, 131-138.	0.5	7
20	Analysis of magnetocaloric effect of ball milled amorphous alloys: Demagnetizing factor and Curie temperature distribution. Journal of Alloys and Compounds, 2015, 622, 606-609.	5.5	20
21	Enhanced cryogenic magnetocaloric effect in Eu8Ga16Ge30 clathrate nanocrystals. Journal of Applied Physics, 2015, 117, .	2.5	15
22	Influence of hot compaction on microstructure and magnetic properties of mechanically alloyed Fe(Co)-based amorphous compositions. Journal of Alloys and Compounds, 2015, 653, 546-551.	5.5	5
23	Effect of Î±-Fe impurities on the field dependence of magnetocaloric response in LaFe11.5Si1.5. Journal of Alloys and Compounds, 2015, 646, 101-105.	5.5	17
24	Influence of the demagnetizing factor on the magnetocaloric effect: Critical scaling and numerical simulations. Applied Physics Letters, 2014, 104, .	3.3	36
25	A procedure to extract the magnetocaloric parameters of the single phases from experimental data of a multiphase system. Applied Physics Letters, 2014, 105, 172405.	3.3	8
26	Extracting the composition of nanocrystals of mechanically alloyed systems using MÃ¶ssbauer spectroscopy. Journal of Alloys and Compounds, 2014, 610, 92-99.	5.5	7
27	Evolution of Fe environments in mechanically alloyed Feâ€“Nbâ€“(B) compositions. Journal of Alloys and Compounds, 2014, 615, S555-S558.	5.5	4
28	Relationship between mechanical amorphization and boron integration during processing of FeNbB alloys. Intermetallics, 2014, 49, 98-105.	3.9	12
29	Milling effects on magnetic properties of melt spun Fe-Nb-B alloy. Journal of Applied Physics, 2014, 115, 17B518.	2.5	5
30	Magnetocaloric effect of Co62Nb6Zr2B30 amorphous alloys obtained by mechanical alloying or rapid quenching. Journal of Applied Physics, 2014, 115, .	2.5	26
31	Amorphization and evolution of magnetic properties during mechanical alloying of Co62Nb6Zr2B30: Dependence on starting boron microstructure. Journal of Alloys and Compounds, 2014, 585, 485-490.	5.5	19
32	Crystallization kinetics and soft magnetic properties in metalloid-free (Fe, Co)90Zr10 amorphous and nanocrystalline alloys. Journal of Alloys and Compounds, 2014, 615, S213-S216.	5.5	4
33	Metastable Soft Magnetic Materials Produced by Mechanical Alloying: Analysis Using an Equivalent Time Approach. Jom, 2013, 65, 870-882.	1.9	12
34	Role of starting phase of boron on the mechanical alloying of FeNbB composition. Journal of Alloys and Compounds, 2013, 553, 119-124.	5.5	16
35	The use of amorphous boron powder enhances mechanical alloying in soft magnetic FeNbB alloy: A magnetic study. Journal of Applied Physics, 2013, 113, .	2.5	4
36	Tuning the Curie temperature in Î³-FeNi nanoparticles for magnetocaloric applications by controlling the oxidation kinetics. Journal of Applied Physics, 2013, 113, .	2.5	37

#	Article	IF	Citations
37	High temperature x ray diffraction determination of the body-centered-cubicâ€“face-centered-cubic transformation temperature in (Fe70Ni30)88Zr7B4Cu1 nanocomposites. Journal of Applied Physics, 2012, 111, 07A323.	2.5	14
38	The effect of distributed exchange parameters on magnetocaloric refrigeration capacity in amorphous and nanocomposite materials. Journal of Applied Physics, 2012, 111, 07A334.	2.5	40
39	Overview of Amorphous and Nanocrystalline Magnetocaloric Materials Operating Near Room Temperature. Jom, 2012, 64, 782-788.	1.9	49
40	Comparison of equivalent ball milling processes on Fe70Zr30 and Fe70Nb30. Journal of Alloys and Compounds, 2012, 536, S9-S12.	5.5	7
41	Two milling time regimes in the evolution of magnetic anisotropy of mechanically alloyed soft magnetic powders. Journal of Alloys and Compounds, 2011, 509, 1407-1410.	5.5	8
42	Near Room Temperature Magnetocaloric Response of an (FeNi)ZrB Alloy. IEEE Transactions on Magnetics, 2011, 47, 2494-2497.	2.1	41
43	Thermal stability of a supersaturated Fe-Ge-Nb solid solution produced by ball milling. Journal of Physics: Conference Series, 2010, 217, 012083.	0.4	0
44	Structure and magnetic properties of Feâ€“Nbâ€“B amorphous/nanocrystalline alloys produced by compaction of mechanically alloyed powders. Journal of Applied Physics, 2010, 107, 073901.	2.5	7
45	Mechanical amorphization of Fe75Nb10B15 powder: Microstructural and magnetic characterization. Intermetallics, 2010, 18, 565-568.	3.9	9
46	Influence of Co addition on the magnetic properties and magnetocaloric effect of Nanoperm (Fe1â^'XCoX)75Nb10B15 type alloys prepared by mechanical alloying. Journal of Alloys and Compounds, 2010, 496, 7-12.	5.5	26
47	Microstructural characterization by TEM techniques of mechanically alloyed FeNbGe powders. Journal of Alloys and Compounds, 2010, 505, 86-90.	5.5	4
48	Supersaturated solid solution obtained by mechanical alloying of 75% Fe, 20% Ge and 5% Nb mixture at different milling intensities. Journal of Alloys and Compounds, 2009, 469, 169-178.	5.5	15
49	Magnetocaloric response of Fe75Nb10B15 powders partially amorphized by ball milling. Journal of Applied Physics, 2009, 105, 123922.	2.5	39
50	Microstructural evolution characterization of Feâ€“Nbâ€“B ternary systems processed by ball milling. Philosophical Magazine, 2009, 89, 1415-1423.	1.6	28
51	Analysis of the mechanically alloyed Fe85â€“Nb5â€“B10 powder using a non-unique lattice parameter. Journal of Non-Crystalline Solids, 2008, 354, 5132-5134.	3.1	2
52	An equivalent time approach for scaling the mechanical alloying processes. Intermetallics, 2008, 16, 470-478.	3.9	23
53	Mechanical alloying of Fe100â^'â^'Nb B (x= 5, 10; y= 10, 15): From pure powder mixture to amorphous phase. Intermetallics, 2008, 16, 1073-1082.	3.9	22
54	Ball milling of Fe83Zr6B10Cu1 amorphous alloy containing quenched in crystals. Intermetallics, 2007, 15, 1132-1138.	3.9	10