

# Alejandro Conde

## List of Publications by Citations

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253  
ext. papers

7,902  
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L-index

#	Paper	IF	Citations
252	The Magnetocaloric Effect and Magnetic Refrigeration Near Room Temperature: Materials and Models. <i>Annual Review of Materials Research</i> , <b>2012</b> , 42, 305-342	12.8	753
251	Field dependence of the magnetocaloric effect in materials with a second order phase transition: A master curve for the magnetic entropy change. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 222512	3.4	715
250	Magnetocaloric effect: From materials research to refrigeration devices. <i>Progress in Materials Science</i> , <b>2018</b> , 93, 112-232	42.2	592
249	Scaling laws for the magnetocaloric effect in second order phase transitions: From physics to applications for the characterization of materials. <i>International Journal of Refrigeration</i> , <b>2010</b> , 33, 465-473 <sup>38</sup>	3.8	417
248	A universal curve for the magnetocaloric effect: an analysis based on scaling relations. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 285207	1.8	240
247	The magnetocaloric effect in materials with a second order phase transition: Are TC and Tpeak necessarily coincident?. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 07A917	2.5	126
246	Optimization of the refrigerant capacity in multiphase magnetocaloric materials. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 102505	3.4	109
245	Field dependence of the magnetocaloric effect in Gd and (Er 1-x Dy x)Al 2 : Does a universal curve exist?. <i>Europhysics Letters</i> , <b>2007</b> , 79, 47009	1.6	109
244	Scaling analysis of the magnetocaloric effect in Gd <sub>5</sub> Si <sub>2</sub> Ge <sub>1.9</sub> X <sub>0.1</sub> (X=Al, Cu, Ga, Mn, Fe, Co). <i>Journal of Magnetism and Magnetic Materials</i> , <b>2010</b> , 322, 218-223	2.8	107
243	A constant magnetocaloric response in FeMoCuB amorphous alloys with different Fe/B ratios. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 093903	2.5	106
242	Influence of Co and Ni addition on the magnetocaloric effect in Fe <sub>88-x</sub> Co <sub>x</sub> Ni <sub>x</sub> Zr <sub>7</sub> B <sub>4</sub> Cu <sub>1</sub> soft magnetic amorphous alloys. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 182506	3.4	104
241	A Finemet-type alloy as a low-cost candidate for high-temperature magnetic refrigeration. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 042505	3.4	101
240	Non-isothermal approach to isokinetic crystallization processes: Application to the nanocrystallization of HITPERM alloys. <i>Acta Materialia</i> , <b>2005</b> , 53, 2305-2311	8.4	97
239	The influence of Co addition on the magnetocaloric effect of Nanoperm-type amorphous alloys. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 064307	2.5	95
238	The influence of a minority magnetic phase on the field dependence of the magnetocaloric effect. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2009</b> , 321, 1115-1120	2.8	84
237	The magnetocaloric effect in soft magnetic amorphous alloys. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 09C503	5.3	82
236	Influence of Co addition on the magnetocaloric effect of FeCoSiAlGaPCB amorphous alloys. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 132509	3.4	81

235	Enhanced magnetocaloric response in CrMo containing Nanoperm-type amorphous alloys. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 052509	3.4	81
234	Evidence of spin disorder at the surface/core interface of oxygen passivated Fe nanoparticles. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 2189-2192	2.5	77
233	Influence of Ge addition on the magnetocaloric effect of a Co-containing Nanoperm-type alloy. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 07B316	2.5	72
232	Refrigerant capacity of FeCrMoCuGaPCB amorphous alloys. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 083903	2.5	66
231	Magnetocaloric response of FeCrB amorphous alloys: Predicting the magnetic entropy change from the Arrott-Noakes equation of state. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 033903	2.5	57
230	Glass-forming ability and soft magnetic properties of FeCoSiAlGaPCB amorphous alloys. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 2073-2078	2.5	54
229	Influence of the demagnetizing field on the determination of the magnetocaloric effect from magnetization curves. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 07A919	2.5	52
228	Enhancement of the magnetocaloric effect in composites: Experimental validation. <i>Solid State Communications</i> , <b>2012</b> , 152, 1590-1594	1.6	51
227	Field dependence of the magnetocaloric effect in core-shell nanoparticles. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 09A902	2.5	48
226	Crystallisation process in (FeCo) <sub>78</sub> Nb <sub>6</sub> (BCu) <sub>16</sub> alloys. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 287, 187-192	2.5	47
225	Tailoring of magnetocaloric response in nanostructured materials: Role of anisotropy. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	45
224	Magnetic refrigerants with continuous phase transitions: Amorphous and nanostructured materials. <i>Scripta Materialia</i> , <b>2012</b> , 67, 594-599	5.6	44
223	Dependence of exchange anisotropy and coercivity on the Fe <sub>3</sub> O <sub>4</sub> oxide structure in oxygen-passivated Fe nanoparticles. <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 6118-6120	2.5	44
222	Structural ordering and magnetic properties of arc-melted FeGa alloys. <i>Intermetallics</i> , <b>2007</b> , 15, 193-200	3.5	43
221	Field dependence of the adiabatic temperature change in second order phase transition materials: Application to Gd. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 103911	2.5	39
220	Magnetocaloric response of Fe <sub>75</sub> Nb <sub>10</sub> B <sub>15</sub> powders partially amorphized by ball milling. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 123922	2.5	38
219	The melting behavior of passivated nanocrystalline aluminum. <i>Scripta Materialia</i> , <b>1996</b> , 7, 813-822		38
218	Magnetocaloric effect and critical exponents of Fe <sub>77</sub> Co <sub>5.5</sub> Ni <sub>5.5</sub> Zr <sub>7</sub> B <sub>4</sub> Cu <sub>1</sub> : A detailed study. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07A905	2.5	37

217	Partitioning of Co during crystallisation of Fe <sub>1-x</sub> Co <sub>x</sub> NbB(Cu) amorphous alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 353, 158-163	5.3	36
216	The influence of Cu addition on the crystallization and magnetic properties of FeCoNbB alloys. <i>Journal of Physics Condensed Matter</i> , <b>2002</b> , 14, 11717-11727	1.8	36
215	Influence of magnetic interactions between phases on the magnetocaloric effect of composites. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 082402	3.4	33
214	Microstructure and magnetic properties of Fe <sub>78-x</sub> Co <sub>x</sub> Nb <sub>6</sub> B <sub>15</sub> Cu <sub>1</sub> (x=18, 39, 60) alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 254-255, 460-462	2.8	32
213	Magnetocaloric effect and critical behavior in Pr <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> : an analysis of the validity of the Maxwell relation and the nature of the phase transitions. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 286001	1.8	31
212	The magnetocaloric properties of GdScSi and GdScGe. <i>Intermetallics</i> , <b>2011</b> , 19, 1573-1578	3.5	31
211	Thermomagnetic detection of recrystallization in FeCoNbBCu nanocrystalline alloys. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 2898-2900	3.4	31
210	Changes in magnetic anisotropy distribution during structural evolution of Fe <sub>76</sub> Si <sub>10.5</sub> B <sub>9.5</sub> Cu <sub>1</sub> Nb <sub>3</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>1998</b> , 185, 353-359	2.8	30
209	Mössbauer study of FeCoNbBCu hitperm-type alloys. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 1612-1614	3.4	30
208	Ball milling as a way to produce magnetic and magnetocaloric materials: a review. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 11834-11850	4.3	29
207	Kinetics of nanocrystallization in FeCoNbB(Cu) alloys. <i>Applied Physics A: Materials Science and Processing</i> , <b>2003</b> , 76, 571-575	2.6	29
206	A hybrid silver-magnetite detector based on surface enhanced Raman scattering for differentiating organic compounds. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 228, 124-133	8.5	28
205	Thermomagnetic study of devitrification in nanocrystalline Fe(Cr)SiB-CuNb alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1994</b> , 138, 314-318	2.8	27
204	Influence of Co addition on the magnetic properties and magnetocaloric effect of Nanoperm (Fe <sub>1-x</sub> Co <sub>x</sub> ) <sub>75</sub> Nb <sub>10</sub> B <sub>15</sub> type alloys prepared by mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 496, 7-12	5.7	26
203	Influence of Mn on the magnetocaloric effect of nanoperm-type alloys. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 073921	2.5	26
202	Glass-forming ability and crystallization behavior of Co <sub>62-x</sub> Fe <sub>x</sub> Nb <sub>6</sub> Zr <sub>2</sub> B <sub>30</sub> (x=0,16) amorphous alloys with large supercooled liquid region. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 6607-6611	2.5	26
201	Two different critical regimes enclosed in the Bean-Rodbell model and their implications for the field dependence and universal scaling of the magnetocaloric effect. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 3582-3595	3.6	25
200	Predicting the tricritical point composition of a series of LaFeSi magnetocaloric alloys via universal scaling. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 414004	3	25

199	Influence of the demagnetizing factor on the magnetocaloric effect: Critical scaling and numerical simulations. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 252405	3.4	25
198	Magnetocaloric effect in melt-spun FePd ribbon alloy with second order phase transition. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 190-194	5.7	25
197	Microstructural evolution characterization of FeNbB ternary systems processed by ball milling. <i>Philosophical Magazine</i> , <b>2009</b> , 89, 1415-1423	1.6	25
196	Thermal effects in a Stoner-Wohlfarth model and their influence on magnetic anisotropy determination. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 278, 28-38	2.8	25
195	Magnetic properties and nanocrystallization of a Fe <sub>63.5</sub> Cr <sub>10</sub> Si <sub>13.5</sub> B <sub>9</sub> Cu <sub>1</sub> Nb <sub>3</sub> alloy. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1999</b> , 203, 60-62	2.8	25
194	Crystallization of a FINEMET-type alloy: nanocrystallization kinetics. <i>Materials Letters</i> , <b>1994</b> , 21, 409-414	3.3	25
193	Study of the field dependence of the magnetocaloric effect in Nd <sub>1.25</sub> Fe <sub>11</sub> Ti: A multiphase magnetic system. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2010</b> , 322, 804-807	2.8	24
192	Thermomagnetic study of devitrification in Fe-Si-B-Cu-Nb(-X) alloys. <i>Philosophical Magazine Letters</i> , <b>2000</b> , 80, 359-365	1	24
191	Autocalibrating quasistatic M-H hysteresis loop tracer with negligible drift. <i>Review of Scientific Instruments</i> , <b>1996</b> , 67, 4167-4170	1.7	24
190	Gd+GdZn biphasic magnetic composites synthesized in a single preparation step: Increasing refrigerant capacity without decreasing magnetic entropy change. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 675, 244-247	5.7	22
189	Magnetocaloric effect of Co <sub>62</sub> Nb <sub>6</sub> Zr <sub>2</sub> B <sub>30</sub> amorphous alloys obtained by mechanical alloying or rapid quenching. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17A302	2.5	22
188	An equivalent time approach for scaling the mechanical alloying processes. <i>Intermetallics</i> , <b>2008</b> , 16, 470-478	3.5	22
187	Characterization of oxygen passivated iron nanoparticles and thermal evolution to Fe <sub>2</sub> O <sub>3</sub> . <i>Journal of Materials Science</i> , <b>2004</b> , 39, 4877-4885	4.3	22
186	On the effects of partial substitution of Co for Fe in FINEMET and Nb-containing HITPERM alloys. <i>Journal of Physics Condensed Matter</i> , <b>2003</b> , 15, 3957-3968	1.8	22
185	Partial substitution of Co and Ge for Fe and B in Fe <sub>70</sub> Zr <sub>10</sub> B <sub>10</sub> Cu alloys: microstructure and soft magnetic applicability at high temperature. <i>Acta Materialia</i> , <b>2005</b> , 53, 1241-1251	8.4	22
184	Study of phases evolution in high-coercive MnAl powders obtained through short milling time of gas-atomized particles. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 712, 373-378	5.7	21
183	Mechanical alloying of Fe <sub>100-x-y</sub> Nb <sub>x</sub> By (x=5, 10; y=10, 15): From pure powder mixture to amorphous phase. <i>Intermetallics</i> , <b>2008</b> , 16, 1073-1082	3.5	21
182	Enthalpy and Curie temperature relaxation effects in FeSiB <sub>10</sub> CuNb alloys prepared at different quenching rates. <i>Materials Letters</i> , <b>2000</b> , 45, 246-250	3.3	21

181	Microstructure and magnetic properties of a FeSiBCuNb alloy submitted to Joule heating. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1999</b> , 203, 199-201	2.8	21
180	Soft magnetic properties of high-temperature nanocrystalline alloys: Permeability and magnetoimpedance. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 2172-2177	2.5	20
179	Composition dependence of Curie temperature and microstructure in amorphous FeCoMoCuB metallic glasses. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2006</b> , 304, e739-e742	2.8	19
178	Crystallization of Co-containing Finemet alloys. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 287, 120-124	3.9	19
177	Stereoselective synthesis of nitropyrazolines: 1,3-dipolar cycloaddition of diazoalkanes to (E)-4,5,6,7,8-penta-O-acetyl-1,2,3-trideoxy-2-C-nitro-D-manno-oct-2-enitol. <i>Carbohydrate Research</i> , <b>1991</b> , 210, 327-332	2.9	19
176	Enhancement of magnetocaloric effect in B-rich FeZrBCu amorphous alloys. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 622, 756-760	5.7	18
175	Magnetic and structural characterization of Mo-Hitperm alloys with different Fe/Co ratio. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 1994-2000	5.7	18
174	Nanocrystallization behaviour of FeSiBCu(NbX) alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1997</b> , 226-228, 663-667	5.3	18
173	Instantaneous growth approximation describing the nanocrystallization process of amorphous alloys: A cellular automata model. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 3597-3605	3.9	18
172	Dipole-dipole interaction in superparamagnetic nanocrystalline Fe <sub>63.5</sub> Cr <sub>10</sub> Si <sub>13.5</sub> B <sub>9</sub> Cu <sub>1</sub> Nb <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 1558-1563	2.5	18
171	Nanostructuring as a procedure to control the field dependence of the magnetocaloric effect. <i>Materials and Design</i> , <b>2017</b> , 114, 214-219	8.1	17
170	Analysis of magnetocaloric effect of ball milled amorphous alloys: Demagnetizing factor and Curie temperature distribution. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 622, 606-609	5.7	17
169	Extension of the classical theory of crystallization to non-isothermal regimes: Application to nanocrystallization processes. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 544, 73-81	5.7	17
168	Structural relaxation processes in FeSiB-Cu(Nb, X), X=Mo, V, Zr, Nb glassy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 304-306, 491-494	5.3	17
167	Amorphization and evolution of magnetic properties during mechanical alloying of Co <sub>62</sub> Nb <sub>6</sub> Zr <sub>2</sub> B <sub>30</sub> : Dependence on starting boron microstructure. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 585, 485-490	5.7	16
166	The evolution of magnetostriction and coercivity with temperature in the early stages of nanocrystallisation in FeCoNbB(Cu) alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2002</b> , 250, 260-266	2.8	16
165	High-temperature evolution of coercivity in nanocrystalline alloys. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	16
164	Superparamagnetic behaviour in an Fe <sub>76</sub> Cu <sub>1</sub> Nb <sub>3</sub> Si <sub>10.5</sub> B <sub>9.5</sub> alloy. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2000</b> , 215-216, 400-403	2.8	16

163	Nanocrystallite compositions for Al- and Mo-containing Finemet-type alloys. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 287, 125-129	3.9	16
162	Nanocrystallization in Fe <sub>73.5</sub> Cu <sub>1</sub> Nb <sub>3</sub> (Si,B) <sub>22.5</sub> alloys: influence of the Si/B content. <i>Scripta Materialia</i> , <b>1995</b> , 6, 457-460		16
161	Nanocrystallization in Fe <sub>73.5</sub> Si <sub>13.5</sub> B <sub>9</sub> Cu <sub>1</sub> Nb <sub>1</sub> X <sub>2</sub> (X = Nb, Mo and V) alloys studied by X-ray synchrotron radiation. <i>Scripta Materialia</i> , <b>1998</b> , 10, 575-583		15
160	X-ray absorption studies of a FINEMET alloy. <i>Journal of Non-Crystalline Solids</i> , <b>1998</b> , 232-234, 352-357	3.9	15
159	A study of the fcc (FeCo) <sub>23</sub> B <sub>6</sub> phase in fully crystallized Fe-Co-Nb-B-Cu alloys. <i>Philosophical Magazine Letters</i> , <b>2002</b> , 82, 409-417	1	15
158	A Fitting Procedure to Describe Mössbauer Spectra of FINEMET-type Nanocrystalline Alloys. <i>Hyperfine Interactions</i> , <b>2000</b> , 131, 67-82	0.8	15
157	How concurrent thermomagnetic transitions can affect magnetocaloric effect: The Ni <sub>49+x</sub> Mn <sub>36-x</sub> In <sub>15</sub> Heusler alloy case. <i>Acta Materialia</i> , <b>2019</b> , 166, 459-465	8.4	15
156	Effect of Fe impurities on the field dependence of magnetocaloric response in LaFe <sub>11.5</sub> Si <sub>1.5</sub> . <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 646, 101-105	5.7	14
155	Supersaturated solid solution obtained by mechanical alloying of 75% Fe, 20% Ge and 5% Nb mixture at different milling intensities. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 469, 169-178	5.7	14
154	Mo-containing Finemet alloys: microstructure and magnetic properties. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 287, 366-369	3.9	14
153	Effect of the Si/B ratio on the magnetic anisotropy distribution of Fe <sub>73.5</sub> Si <sub>22.5-x</sub> B <sub>x</sub> Cu <sub>1</sub> Nb <sub>3</sub> (x=7,9,16) alloys along nanocrystallization. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 5108-5113	2.5	14
152	Lattice dynamics and thermal crystallographic parameters in phenothiazine. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>1984</b> , 40, 696-701		14
151	Role of starting phase of boron on the mechanical alloying of FeNbB composition. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 553, 119-124	5.7	13
150	Mössbauer study of the nanocrystallization of the amorphous system Fe <sub>73.5</sub> Si <sub>13.5</sub> B <sub>9</sub> Cu <sub>1</sub> Nb <sub>1</sub> X <sub>2</sub> with X=Nb, Mo, V and Zr <b>1997</b> , 110, 1-6		13
149	Influence of the addition of Mn and Cu on the nanocrystallization process of HITPERM Fe <sub>73.5</sub> Co <sub>10</sub> Nb <sub>3</sub> B alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 375-377, 718-721	5.3	13
148	Magnetocaloric response of amorphous and nanocrystalline Cr-containing Vitroperm-type alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 409, 56-61	2.8	12
147	Microstructure and magnetic properties of FeMoBCu alloys: Influence of B content. <i>Acta Materialia</i> , <b>2007</b> , 55, 5675-5683	8.4	12
146	On the isothermal kinetics analysis of transformations in metastable systems: combined use of isothermal and non-isothermal calorimetry. <i>Philosophical Magazine</i> , <b>2007</b> , 87, 4151-4167	1.6	12

145	Thermomagnetic study of Fe <sub>73.5</sub> Cr <sub>x</sub> Si <sub>13.5</sub> B <sub>9</sub> Cu <sub>1</sub> Nb <sub>3</sub> (x=1,3,5,10) alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2000</b> , 215-216, 404-406	2.8	12
144	Non-isothermal crystallization and isothermal transformation kinetics of the Ni <sub>68.5</sub> Cr <sub>14.5</sub> P <sub>17</sub> metallic glass. <i>Journal of Materials Science</i> , <b>1989</b> , 24, 139-142	4.3	12
143	Electron microscopy study of crystallization behaviour of Fe <sub>40</sub> Ni <sub>38</sub> Mo <sub>4</sub> B <sub>18</sub> (2826 MB) metallic glass. <i>Journal of Materials Science</i> , <b>1982</b> , 17, 861-866	4.3	12
142	Grinding and particle size selection as a procedure to enhance the magnetocaloric response of La(Fe,Si) <sub>13</sub> bulk samples. <i>Intermetallics</i> , <b>2017</b> , 84, 30-34	3.5	11
141	On the use of classical JMAK crystallization kinetic theory to describe simultaneous processes leading to the formation of different phases in metals. <i>International Journal of Thermal Sciences</i> , <b>2015</b> , 88, 1-6	4.1	11
140	Metastable Soft Magnetic Materials Produced by Mechanical Alloying: Analysis Using an Equivalent Time Approach. <i>Jom</i> , <b>2013</b> , 65, 870-882	2.1	11
139	Relationship between mechanical amorphization and boron integration during processing of FeNbB alloys. <i>Intermetallics</i> , <b>2014</b> , 49, 98-105	3.5	11
138	Correlation between microstructure and temperature dependence of magnetic properties in Fe <sub>60</sub> Co <sub>18</sub> (Nb,Zr) <sub>6</sub> B <sub>15</sub> Cu <sub>1</sub> alloy series. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 093928	2.5	11
137	Magnetocaloric effect in Mn-containing Hitperm-type alloys. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 013908	3.5	11
136	Mössbauer study of a Fe <sub>70</sub> Zr <sub>30</sub> (B,Ge,Co) nanocrystalline alloy series. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 422, 32-39	5.7	11
135	Influence of anisotropy on the grain size distribution derived from superparamagnetic magnetization curves. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 277, 181-186	2.8	11
134	Microstructural evolution of FINEMET type alloys with chromium: An electron microscopy study. <i>Journal of Materials Science</i> , <b>1995</b> , 30, 3591-3597	4.3	11
133	Enhancement of the magnetic refrigerant capacity in partially amorphous Fe <sub>70</sub> Zr <sub>30</sub> powders obtained by mechanical alloying. <i>Intermetallics</i> , <b>2012</b> , 26, 52-56	3.5	10
132	Preferential Co partitioning to Fe in nanocrystalline CoFeNbB alloys by Mn addition. <i>Journal of Non-Crystalline Solids</i> , <b>2009</b> , 355, 109-113	3.9	10
131	Ball milling of Fe <sub>83</sub> Zr <sub>6</sub> B <sub>10</sub> Cu <sub>1</sub> amorphous alloy containing quenched in crystals. <i>Intermetallics</i> , <b>2007</b> , 15, 1132-1138	3.5	10
130	Nanocrystalline Fe <sub>70</sub> Nb <sub>30</sub> (B,Ge) alloys from ball milling: Microstructure, thermal stability and magnetic properties. <i>Intermetallics</i> , <b>2007</b> , 15, 1351-1360	3.5	10
129	Joule heating as a technique for obtaining uncoupled soft and hard magnetic phases in a Finemet alloy. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 033909	2.5	10
128	Ordering of FeCo nanocrystalline phase in FeCoNbBCu alloys. <i>Journal of Physics Condensed Matter</i> , <b>2003</b> , 15, 7843-7849	1.8	10



127	A New Method for Determining the Curie Temperature From Magnetocaloric Measurements. <i>IEEE Magnetism Letters</i> , <b>2016</b> , 7, 1-4	1.6	9
126	On the Use of JMAK Theory to Describe Mechanical Amorphization: A Comparison between Experiments, Numerical Solutions and Simulations. <i>Metals</i> , <b>2018</b> , 8, 450	2.3	9
125	Enhanced cryogenic magnetocaloric effect in Eu <sub>8</sub> Ga <sub>16</sub> Ge <sub>30</sub> clathrate nanocrystals. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 033903	2.5	9
124	Mechanical amorphization of Fe <sub>75</sub> Nb <sub>10</sub> B <sub>15</sub> powder: Microstructural and magnetic characterization. <i>Intermetallics</i> , <b>2010</b> , 18, 565-568	3.5	9
123	Crystallization of (Fe, Co) <sub>78</sub> Si <sub>9</sub> B <sub>13</sub> alloys: influence of relaxation processes. <i>Journal of Materials Science</i> , <b>1998</b> , 33, 2171-2177	4.3	9
122	Crystallization behavior and magnetic properties of Cu-containing Fe <sub>70</sub> Cr <sub>10</sub> Mo <sub>10</sub> Ta <sub>10</sub> B <sub>10</sub> alloys. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 043515	2.5	9
121	A direct extension of the Avrami equation to describe the non-isothermal crystallization of Al-base alloys. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 434-435, 187-189	5.7	9
120	An in situ synchrotron study of nanocrystallization in (Fe,Cr)-Si-B-(Cu-Nb) alloys. <i>Philosophical Magazine Letters</i> , <b>1998</b> , 78, 221-227	1	9
119	Magnetic anisotropy obtained from demagnetization curves: Influence of particle orientation and interactions. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 3875-3877	3.4	9
118	Time-scaling and crystallization kinetics of three Fe-B-based metallic glasses. <i>Journal of Materials Science</i> , <b>1989</b> , 24, 1862-1866	4.3	9
117	A unified approach to describe the thermal and magnetic hysteresis in Heusler alloys. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 122410	3.4	9
116	Influence of the starting temperature of calorimetric measurements on the accuracy of determined magnetocaloric effect. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 457, 64-69	2.8	8
115	Influence of microstructure on the enhancement of soft magnetic character and the induced anisotropy of field annealed HITPERM-type alloys. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 17A301	2.5	8
114	Magnetic multilayers as a way to increase the magnetic field responsiveness of magnetocaloric materials. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 7432-6	1.3	8
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112	Cellular automata simulations on nanocrystallization processes: From instantaneous growth approximation to limited growth. <i>Journal of Non-Crystalline Solids</i> , <b>2011</b> , 357, 2833-2839	3.9	8
111	Kinetic and microstructural studies on the devitrification of Fe <sub>60</sub> Co <sub>18</sub> Mn <sub>x</sub> Nb <sub>6</sub> B <sub>16</sub> amorphous alloys. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 454, 156-163	5.7	8
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109	Microstructural properties of (Fe, Co)SiBCuNb nanocrystalline alloys. <i>Journal of Physics Condensed Matter</i> , <b>2002</b> , 14, 883-893	1.8	8
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104	On the crystallization of Fe <sub>77</sub> B <sub>16</sub> Si <sub>5</sub> Cr <sub>2</sub> alloy. <i>Materials Letters</i> , <b>1986</b> , 4, 442-446	3.3	8
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101	A procedure to extract the magnetocaloric parameters of the single phases from experimental data of a multiphase system. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 172405	3.4	7
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92	Thermal evolution of co-evaporated amorphous thin Ni-Ag films. <i>Thin Solid Films</i> , <b>1982</b> , 88, 211-217	2.2	7

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65	Structure of 1-(p-bromophenyl)-3-ethyl-1,3,4,5-tetrahydro-1,2-dideoxy-D-glycero-L-gluco-heptofuranosyl[1,2-d]imidazole-2-thione C <sub>16</sub> H <sub>21</sub> BrN <sub>2</sub> O <sub>5</sub> S. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>1983</b> , 39, 1418-1421		5
64	Influence of Thermal and Magnetic History on Direct $\mu$ SR Measurements of Ni <sub>49+x</sub> Mn <sub>36</sub> In <sub>15</sub> Heusler Alloys. <i>Metals</i> , <b>2019</b> , 9, 1144	2.3	5
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56	Influence of the substrate on the crystallization kinetics of vapour-deposited amorphous selenium films. <i>Thin Solid Films</i> , <b>1987</b> , 149, L73-L76	2.2	4

55	Structure and absolute configuration of 1-(p-bromophenyl)-3-ethyl-1,2,4,5-tetrahydro-1,2-dideoxy-D-glucofuranosylideneimidazole-2-thione monohydrate, C <sub>15</sub> H <sub>19</sub> BrN <sub>2</sub> O <sub>4</sub> S.H <sub>2</sub> O. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>1985</b> , 41, 277-280		4
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53	Structure and molecular conformation of 1-(4-acetyl-5-methyl-2-furyl)-1,3-dideoxy-3-nitro-D-xylopyranose. <i>Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry</i> , <b>1980</b> , 36, 2730-2733		4
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44	Lattice-dynamical calculation of second-order thermal diffuse scattering in molecular crystals. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>1985</b> , 41, 316-320		3
43	Structure of 4-(D-erythrofuransyl)-3-methyl-1-(p-tolyl)-4-imidazoline-2-thione monohydrate, C <sub>15</sub> H <sub>18</sub> N <sub>2</sub> O <sub>3</sub> S.H <sub>2</sub> O. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>1983</b> , 39, 122-125		3
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41	The use of amorphous boron powder enhances mechanical alloying in soft magnetic FeNbB alloy: A magnetic study. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 17A330	2.5	2
40	Evolution of Fe environments in mechanically alloyed Fe <sub>78</sub> Nb <sub>6</sub> (B) compositions. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 615, S555-S558	5.7	2
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38	Analysis of the mechanically alloyed Fe <sub>85</sub> Nb <sub>5</sub> B <sub>10</sub> powder using a non-unique lattice parameter. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 5132-5134	3.9	2

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30	X-ray structure and molecular-packing analysis of artemetin. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>1987</b> , 43, 1826-1829		2
29	Structure of 1-(p-bromophenyl)-3-ethyl-1,3,4,5-tetrahydro-1,2-dideoxy-D-glycero-D-gulo-heptofuranoso[1,2-d]imidazole-2-thione, C <sub>16</sub> H <sub>21</sub> BrN <sub>2</sub> O <sub>5</sub> S. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>1984</b> , 40, 898-901		2
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25	The crystal and molecular structure of 4-formylimidazoline-2-thione. <i>Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry</i> , <b>1977</b> , 33, 794-797		2
24	First- and second-order thermal diffuse scattering (TDS) intensity in molecular crystals: influence on crystal structure parameters. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>1985</b> , 41, 491-494		2
23	Kinetic Analysis of the Transformation from 14M Martensite to L21 Austenite in Ni-Fe-Ga Melt Spun Ribbons. <i>Metals</i> , <b>2021</b> , 11, 849	2.3	2
22	Influence of Noise on the Determination of Curie Temperature From Magnetocaloric Analysis. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-4	2	1
21	Analysis of nanocrystallization kinetics and crystal size distribution under limited growth approach. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, S550-S553	5.7	1
20	Ball milling nanocrystallization of arc-melted and melt-spun Fe <sub>78</sub> Co <sub>5</sub> Nb <sub>3</sub> Zr <sub>3</sub> B <sub>5</sub> Ge <sub>5</sub> Cu <sub>1</sub> alloy: microstructure and magnetic properties. <i>Philosophical Magazine</i> , <b>2006</b> , 86, 2271-2282	1.6	1

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16	Structure and molecular-packing analysis of a heptofuranosimidazolidine-2-thione. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>1987</b> , 43, 1134-1138		1
15	Molecular-packing analysis of some glucofuranosimidazolidine crystals. <i>Acta Crystallographica Section B: Structural Science</i> , <b>1987</b> , 43, 198-202		1
14	Structure of 1-(p-ethoxyphenyl)-1,3-dihydro-3-phenyl-2H-benzimidazole-2-thione, C <sub>21</sub> H <sub>18</sub> N <sub>2</sub> O <sub>5</sub> . <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>1984</b> , 40, 188-190		1
13	Structure of 5-(D-galactopyranosyl)-1,3-dimethylbarbituric acid monohydrate, C <sub>12</sub> H <sub>18</sub> N <sub>2</sub> O <sub>8</sub> .H <sub>2</sub> O. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>1985</b> , 41, 274-277		1
12	Lattice-energy calculations on phenothiazine and phenoselenazine modifications. <i>Acta Crystallographica Section B: Structural Science</i> , <b>1983</b> , 39, 739-742		1
11	A Review of Different Models Derived from Classical Kolmogorov, Johnson and Mehl, and Avrami (KJMA) Theory to Recover Physical Meaning in Solid-State Transformations. <i>Physica Status Solidi (B): Basic Research</i> , 2100524	1.3	1
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9	Specific heat measurements on amorphous and nanocrystalline Al <sub>88</sub> Y <sub>5</sub> Ni <sub>5</sub> Co <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 478, 19-21	5.7	
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7	Study of the short-range order of FeCoSiAlGaPCB amorphous alloys by EXAFS spectroscopy. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 290-291, 1593-1596	2.8	
6	Isothermal crystallization kinetics of the Ni <sub>63</sub> Cr <sub>18</sub> Si <sub>13</sub> B <sub>6</sub> alloy. <i>Journal of Materials Science</i> , <b>1991</b> , 26, 2133-2136	4.3	
5	X-ray structure of 8-acetoxy-1,3,4,10-tetrahydro-1H-10H-epoxyachillin. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>1986</b> , 42, 1413-1415		
4	Structure of 5-(D-glucopyranosyl)barbituric acid trihydrate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>1987</b> , 43, 1138-1142		
3	Structure and absolute configuration of 4-(D-erythrofuransyl)-1,3-dihydro-3-methyl-1-(p-tolyl)-2H-imidazole-2-thione, C <sub>15</sub> H <sub>18</sub> N <sub>2</sub> O <sub>3</sub> S. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>1985</b> , 41, 1212-1214		
2	Structure of 1,3-dihydro-4-[(2R)-2,5-dihydro-2-furyl]-3-phenyl-1-(p-tolyl)-2H-imidazole-2-thione, C <sub>20</sub> H <sub>18</sub> N <sub>2</sub> O <sub>5</sub> . <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>1985</b> , 41, 1215-1217		

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