Santiago SuriÃ±ach

List of Publications by Year
in descending order

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246 papers	8,455 citations	44069 48 h-index	56724 83 g-index
248 all docs	248 docs citations	248 times ranked	7746 citing authors

#	Article	IF	Citations
1	Ligand-Capped Ru Nanoparticles as Efficient Electrocatalyst for the Hydrogen Evolution Reaction. ACS Catalysis, 2018, 8, 11094-11102.	11.2	70
2	Synthesis of Î±-Fe2O3 and Fe-Mn Oxide Foams with Highly Tunable Magnetic Properties by the Replication Method from Polyurethane Templates. Materials, 2018, 11, 280.	2.9	10
3	Evaporation-induced self-assembly synthesis of Ni-doped mesoporous SnO₂ thin films with tunable room temperature magnetic properties. Journal of Materials Chemistry C, 2017, 5, 5517-5527.	5.5	19
4	Cross-sectioning spatio-temporal Co-In electrodeposits: Disclosing a magnetically-patterned nanolaminated structure. Materials and Design, 2017, 114, 202-207.	7.0	2
5	A facile co-precipitation synthesis of heterostructured ZrO2 | ZnO nanoparticles as efficient photocatalysts for wastewater treatment. Journal of Materials Science, 2017, 52, 13779-13789.	3.7	18
6	Mechanical behaviour of brushite and hydroxyapatite coatings electrodeposited on newly developed FeMnSiPd alloys. Journal of Alloys and Compounds, 2017, 729, 231-239.	5.5	23
7	Self-templating faceted and spongy single-crystal ZnO nanorods: Resistive switching and enhanced piezoresponse. Materials and Design, 2017, 133, 54-61.	7.0	16
8	Mechanical properties, corrosion performance and cell viability studies on newly developed porous Fe-Mn-Si-Pd alloys. Journal of Alloys and Compounds, 2017, 724, 1046-1056.	5.5	37
9	Biodegradable FeMnSi Sputter-Coated Macroporous Polypropylene Membranes for the Sustained Release of Drugs. Nanomaterials, 2017, 7, 155.	4.1	2
10	Electrodeposition of sizeable and compositionally tunable rhodium-iron nanoparticles and their activity toward hydrogen evolution reaction. Electrochimica Acta, 2016, 194, 263-275.	5.2	16
11	Novel Feâ€“Mnâ€“Siâ€“Pd alloys: insights into mechanical, magnetic, corrosion resistance and biocompatibility performances. Journal of Materials Chemistry B, 2016, 4, 6402-6412.	5.8	37
12	Nanocasting synthesis of mesoporous SnO₂ with a tunable ferromagnetic response through Ni loading. RSC Advances, 2016, 6, 104799-104807.	3.6	16
13	Spontaneous formation of spiral-like patterns with distinct periodic physical properties by confined electrodeposition of Co-In disks. Scientific Reports, 2016, 6, 30398.	3.3	9
14	Electrochemically synthesized amorphous and crystalline nanowires: dissimilar nanomechanical behavior in comparison with homologous flat films. Nanoscale, 2016, 8, 1344-1351.	5.6	16
15	Nanostructured Tiâ€Zrâ€Pdâ€Siâ€(Nb) bulk metallic composites: Novel biocompatible materials with superior mechanical strength and elastic recovery. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1569-1579.	3.4	8
16	Structurally and mechanically tunable molybdenum oxide films and patterned submicrometer structures by electrodeposition. Electrochimica Acta, 2015, 173, 705-714.	5.2	27
17	Nanomechanical behavior of 3D porous metalâ€“ceramic nanocomposite Bi/Bi2O3 films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 626, 150-158.	5.6	4
18	Synthesis and characterization of nanostructured materials based on Fe50Co50 and Fe75Co25. CTyF - Ciencia, Tecnologia Y Futuro, 2015, 6, 33-44.	0.5	2

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19	Drastic influence of minor Fe or Co additions on the glass forming ability, martensitic transformations and mechanical properties of shape memory Zrâ€“Cuâ€“Al bulk metallic glass composites. Science and Technology of Advanced Materials, 2014, 15, 035015.	6.1	14
20	Structural and mechanical modifications induced on Cu47.5Zr47.5Al5 metallic glass by surface laser treatments. Applied Surface Science, 2014, 290, 188-193.	6.1	19
21	Effects of shot peening on the nanoindentation response of Cu47.5Zr47.5Al5 metallic glass. Journal of Alloys and Compounds, 2014, 586, S36-S40.	5.5	9
22	Self-organized spatio-temporal micropatterning in ferromagnetic Coâ€“In films. Journal of Materials Chemistry C, 2014, 2, 8259-8269.	5.5	9
23	Influence of the irradiation temperature on the surface structure and physical/chemical properties of Ar ion-irradiated bulk metallic glasses. Journal of Alloys and Compounds, 2014, 610, 118-125.	5.5	13
24	Effect of Thermally-Induced Surface Oxidation on the Mechanical Properties and Corrosion Resistance of Zr60Cu25Al10Fe5 Bulk Metallic Glass. Science of Advanced Materials, 2014, 6, 27-36.	0.7	4
25	White-light photoluminescence and photoactivation in cadmium sulfide embedded in mesoporous silicon dioxide templates studied by confocal laser scanning microscopy. Journal of Colloid and Interface Science, 2013, 407, 47-59.	9.4	8
26	Tailoring the physical properties of electrodeposited CoNiReP alloys with large Re content by direct, pulse, and reverse pulse current techniques. Electrochimica Acta, 2013, 96, 43-50.	5.2	8
27	Correlating material-specific layers and magnetic distributions within onion-like Fe3O4/MnO/Î³-Mn2O3 core/shell nanoparticles. Journal of Applied Physics, 2013, 113, 17B531.	2.5	20
28	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. Nature Communications, 2013, 4, 2960.	12.8	160
29	Influence of the shot-peening intensity on the structure and near-surface mechanical properties of Ti40Zr10Cu38Pd12 bulk metallic glass. Applied Physics Letters, 2013, 103, 211907.	3.3	18
30	Ordered arrays of ferromagnetic, compositionally graded Cu1â^'xNix alloy nanopillars prepared by template-assisted electrodeposition. Journal of Materials Chemistry C, 2013, 1, 7215.	5.5	11
31	Mechanochemical synthesis of NaBH4 starting from NaHâ€“MgB2 reactive hydride composite system. International Journal of Hydrogen Energy, 2013, 38, 2363-2369.	7.1	19
32	Controlled 3D-coating of the pores of highly ordered mesoporous antiferromagnetic Co3O4 replicas with ferrimagnetic FexCo3â^'xO4 nanolayers. Nanoscale, 2013, 5, 5561.	5.6	12
33	Improved plasticity and corrosion behavior in Tiâ€“Zrâ€“Cuâ€“Pd metallic glass with minor additions of Nb: An alloy composition intended for biomedical applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 159-164.	5.6	40
34	Nanocasting of Mesoporous Inâ€TM (TM = Co, Fe, Mn) Oxides: Towards 3D Dilutedâ€Oxide Magnetic Semiconductor Architectures. Advanced Functional Materials, 2013, 23, 900-911.	14.9	38
35	On the biodegradability, mechanical behavior, and cytocompatibility of amorphous Mg₇₂Zn₂₃Ca₅ and crystalline Mg₇₀Zn₂₃Ca₅Pd₂ alloys as temporary implant materials. Journal of Biomedical Materials Research - Part A, 2013, 101A, 502-517.	4.0	24
36	Novel Tiâ€“Zrâ€“Hfâ€“Fe Nanostructured Alloy for Biomedical Applications. Materials, 2013, 6, 4930-4945.	2.9	30

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37	Comparative study of nanoindentation on melt-spun ribbon and bulk metallic glass with Ni60Nb37B3 composition. Journal of Materials Research, 2013, 28, 2740-2746.	2.6	7
38	Influence of the Si content on the microstructure and mechanical properties of Tiâ€“Niâ€“Cuâ€“Siâ€“Sn nanocomposite alloys. Journal of Alloys and Compounds, 2012, 536, S186-S189.	5.5	4
39	Deformation and fracture behavior of corrosion-resistant, potentially biocompatible, Ti40Zr10Cu38Pd12 bulk metallic glass. Journal of Alloys and Compounds, 2012, 536, S74-S77.	5.5	6
40	Mechanical and corrosion behaviour of as-cast and annealed Zr60Cu20Al10Fe5Ti5 bulk metallic glass. Intermetallics, 2012, 28, 149-155.	3.9	31
41	Hydrogen storage properties of 2Mgâ€“Fe mixtures processed by hot extrusion: Influence of the extrusion ratio. International Journal of Hydrogen Energy, 2012, 37, 15196-15203.	7.1	9
42	Gold and silver nanoparticles surface functionalized with rhenium carbonyl complexes. Materials Chemistry and Physics, 2012, 137, 439-447.	4.0	8
43	Nanostructured Î²-phase Tiâ€“31.0Feâ€“9.0Sn and sub-Î¼m structured Tiâ€“39.3Nbâ€“13.3Zrâ€“10.7Ta alloys for biomedical applications: Microstructure benefits on the mechanical and corrosion performances. Materials Science and Engineering C, 2012, 32, 2418-2425.	7.3	90
44	Strongly exchange coupled inverse ferrimagnetic soft/hard, MnxFe3â^'xO4/FexMn3â^'xO4, core/shell heterostructured nanoparticles. Nanoscale, 2012, 4, 5138.	5.6	76
45	Improved mechanical performance and delayed corrosion phenomena in biodegradable Mgâ€“Znâ€“Ca alloys through Pd-alloying. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 6, 53-62.	3.1	72
46	Experimental Evidence of Na2[B12H12] and Na Formation in the Desorption Pathway of the 2NaBH4+ MgH2System. Journal of Physical Chemistry C, 2011, 115, 16664-16671.	3.1	46
47	Two-, Three-, and Four-Component Magnetic Multilayer Onion Nanoparticles Based on Iron Oxides and Manganese Oxides. Journal of the American Chemical Society, 2011, 133, 16738-16741.	13.7	55
48	2Mgâ€“Fe alloys processed by hot-extrusion: Influence of processing temperature and the presence of MgO and MgH2 on hydrogenation sorption properties. Journal of Alloys and Compounds, 2011, 509, S460-S463.	5.5	19
49	Indentation plastic work and large compression plasticity in in situ nanocrystallized Zr62Cu18Ni10Al10 bulk metallic glass. Journal of Alloys and Compounds, 2011, 509, S87-S91.	5.5	2
50	Grain Boundary Segregation and Interdiffusion Effects in Nickelâ€“Copper Alloys: An Effective Means to Improve the Thermal Stability of Nanocrystalline Nickel. ACS Applied Materials & Interfaces, 2011, 3, 2265-2274.	8.0	63
51	A comparison between fine-grained and nanocrystalline electrodeposited Cuâ€“Ni films. Insights on mechanical and corrosion performance. Surface and Coatings Technology, 2011, 205, 5285-5293.	4.8	56
52	Enhanced mechanical properties and in vitro corrosion behavior of amorphous and devitrified Ti40Zr10Cu38Pd12 metallic glass. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 1709-1717.	3.1	97
53	Effects of the anion in glycine-containing electrolytes on the mechanical properties of electrodeposited Coâ€“Ni films. Materials Chemistry and Physics, 2011, 130, 1380-1386.	4.0	39
54	High-performance electrodeposited Co-rich CoNiReP permanent magnets. Electrochimica Acta, 2011, 56, 8979-8988.	5.2	9

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55	Thermodynamic and Kinetic Investigations on Pure and Doped NaBH₄â^'MgH₂ System. Journal of Physical Chemistry C, 2011, 115, 3151-3162.	3.1	50
56	Influence of the preparation method on the morphology of templated NiCo2O4 spinel. Journal of Nanoparticle Research, 2011, 13, 3671-3681.	1.9	9
57	The Influence of Deformationâ€Induced Martensitic Transformations on the Mechanical Properties of Nanocomposite Cuâ€Zrâ€(Al) Systems. Advanced Engineering Materials, 2011, 13, 57-63.	3.5	20
58	Electrodeposition of cobaltâ€“yttrium hydroxide/oxide nanocomposite films from particle-free aqueous baths containing chloride salts. Electrochimica Acta, 2011, 56, 5142-5150.	5.2	20
59	Hydrogen sorption performance of MgH2 doped with mesoporous nickel- and cobalt-based oxides. International Journal of Hydrogen Energy, 2011, 36, 5400-5410.	7.1	81
60	Tuneable magnetic patterning of paramagnetic Fe60Al40(at. %) by consecutive ion irradiation through pre-lithographed shadow masks. Journal of Applied Physics, 2011, 109, 093918.	2.5	10
61	Can Na2[B12H12] be a decomposition product of NaBH4?. Physical Chemistry Chemical Physics, 2010, 12, 15093.	2.8	49
62	Enhanced mechanical properties in a Zr-based metallic glass caused by deformation-induced nanocrystallization. Scripta Materialia, 2010, 62, 13-16.	5.2	41
63	Nanocrystalline Electroplated Cuâ€“Ni: Metallic Thin Films with Enhanced Mechanical Properties and Tunable Magnetic Behavior. Advanced Functional Materials, 2010, 20, 983-991.	14.9	92
64	Sorption properties of NaBH4/MH2 (M=Mg, Ti) powder systems. International Journal of Hydrogen Energy, 2010, 35, 5434-5441.	7.1	57
65	Enhanced mechanical properties due to structural changes induced by devitrification in Feâ€“Coâ€“Bâ€“Siâ€“Nb bulk metallic glass. Acta Materialia, 2010, 58, 6256-6266.	7.9	88
66	Outâ€ofâ€Plane Magnetic Patterning Based on Indentationâ€Induced Nanocrystallization of a Metallic Glass. Small, 2010, 6, 1543-1549.	10.0	18
67	Synthesis of compositionally graded nanocast NiO/NiCo2O4/Co3O4 mesoporous composites with tunable magnetic properties. Journal of Materials Chemistry, 2010, 20, 7021.	6.7	81
68	Magnetic Measurements as a Sensitive Tool for Studying Dehydrogenation Processes in Hydrogen Storage Materials. Journal of Physical Chemistry C, 2010, 114, 16818-16822.	3.1	3
69	Partial crystallization and corrosion resistance of amorphous Fe-Cr-M-B (M=Mo, Nb) alloys. Journal of Non-Crystalline Solids, 2010, 356, 2651-2657.	3.1	44
70	Mechanical behavior under nanoindentation of a new Ni-based glassy alloy produced by melt-spinning and copper mold casting. Journal of Non-Crystalline Solids, 2010, 356, 2251-2257.	3.1	13
71	Microstructural characterization and hydrogenation study of extruded MgFe alloy. Journal of Alloys and Compounds, 2010, 504, S299-S301.	5.5	19
72	Effects of severe plastic deformation on the structure and thermo-mechanical properties of Zr55Cu30Al10Ni5 bulk metallic glass. Journal of Alloys and Compounds, 2010, 500, 61-67.	5.5	31

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73	Synthesis of amorphous Mg(BH4)2 from MgB2 and H2 at room temperature. Journal of Alloys and Compounds, 2010, 508, 212-215.	5.5	66
74	Size-Dependent Passivation Shell and Magnetic Properties in Antiferromagnetic/Ferrimagnetic Core/Shell MnO Nanoparticles. Journal of the American Chemical Society, 2010, 132, 9398-9407.	13.7	106
75	Evolution of the Mechanical Properties of Ti-Based Metallic Glass During Depth-Sensing Loadâ€“Unload Nanoindentation Cycles. Nanoscience and Nanotechnology Letters, 2010, 2, 298-302.	0.4	5
76	Direct Magnetic Patterning due to the Generation of Ferromagnetism by Selective Ion Irradiation of Paramagnetic FeAl Alloys. Small, 2009, 5, 229-234.	10.0	71
77	Magnetic Proximity Effect Features in Antiferromagnetic/Ferrimagnetic Core-Shell Nanoparticles. Physical Review Letters, 2009, 102, 247201.	7.8	85
78	Structural relaxation and rejuvenation in a metallic glass induced by shot-peening. Philosophical Magazine Letters, 2009, 89, 831-840.	1.2	98
79	Controlled generation of ferromagnetic martensite from paramagnetic austenite in AISI 316L austenitic stainless steel. Journal of Materials Research, 2009, 24, 565-573.	2.6	16
80	Hydrogen desorption mechanism of 2NaBH4+MgH2 composite prepared by high-energy ball milling. Scripta Materialia, 2009, 60, 1129-1132.	5.2	69
81	Yielding and intrinsic plasticity of Tiâ€“Zrâ€“Niâ€“Cuâ€“Be bulk metallic glass. International Journal of Plasticity, 2009, 25, 1540-1559.	8.8	103
82	Unconventional elastic properties, deformation behavior and fracture characteristics of newly developed rare earth bulk metallic glasses. Intermetallics, 2009, 17, 1090-1097.	3.9	25
83	Influence of the loading rate on the indentation response of Ti-based metallic glass. Journal of Materials Research, 2009, 24, 918-925.	2.6	15
84	Work-hardening mechanisms of the Ti₆₀Cu₁₄Ni₁₂Sn₄Nb₁₀ nanocomposite alloy. Journal of Materials Research, 2009, 24, 3146-3153.	2.6	12
85	Mesoporous NiCo₂O₄ Spinel: Influence of Calcination Temperature over Phase Purity and Thermal Stability. Crystal Growth and Design, 2009, 9, 4814-4821.	3.0	78
86	H₂sorption performance of NaBH₄â€“MgH₂composites prepared by mechanical activation. WIT Transactions on Ecology and the Environment, 2009, , .	0.0	2
87	Cold Consolidation of Metalâ€“Ceramic Nanocomposite Powders with Large Ceramic Fractions. Advanced Functional Materials, 2008, 18, 3293-3298.	14.9	31
88	Microstructural inhomogeneities introduced in a Zr-based bulk metallic glass upon low-temperature annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 491, 124-130.	5.6	50
89	Crystallization of Amorphous Al₈₅Ce₅Ni₁₀ Ribbon. Materials Science Forum, 2008, 570, 126-131.	0.3	0
90	Glass forming ability of the Alâ€“Ceâ€“Ni system. Journal of Non-Crystalline Solids, 2008, 354, 4874-4877.	3.1	37

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91	Patterning of magnetic structures on austenitic stainless steel by local ion beam nitriding. Acta Materialia, 2008, 56, 4570-4576.	7.9	17
92	Two-fold origin of the deformation-induced ferromagnetism in bulk Fe₆₀Al₄₀(at.%) alloys. New Journal of Physics, 2008, 10, 103030.	2.9	25
93	A Numerical Algorithm for Magnetohydrodynamics of Ablated Materials. Journal of Nanoscience and Nanotechnology, 2008, 8, 3674-3685.	0.9	11
94	Impact of magnetization easy-axis distributions on the ferromagnet-antiferromagnet exchange-coupling estimation. Physical Review B, 2008, 77, .	3.2	10
95	Microstructural evolution during solid-state sintering of ball-milled nanocomposite WCâ€“10 mass% Co powders. Nanotechnology, 2007, 18, 185609.	2.6	8
96	Tailoring deformation-induced effects in Co powders by milling them with Î±â€“Al₂O₃. Journal of Materials Research, 2007, 22, 2998-3005.	2.6	5
97	Cold compaction of metalâ€“ceramic (ferromagneticâ€“antiferromagnetic) composites using high pressure torsion. Journal of Alloys and Compounds, 2007, 434-435, 505-508.	5.5	40
98	Severe plastic deformation of a Ti-based nanocomposite alloy studied by nanoindentation. Intermetallics, 2007, 15, 1038-1045.	3.9	14
99	Reversible post-synthesis tuning of the superparamagnetic blocking temperature of Î³-Fe2O3nanoparticles by adsorption and desorption of Co(ii) ions. Journal of Materials Chemistry, 2007, 17, 322-328.	6.7	43
100	Synthesis and Size-Dependent Exchange Bias in Inverted Coreâ^'Shell MnO|Mn3O4Nanoparticles. Journal of the American Chemical Society, 2007, 129, 9102-9108.	13.7	261
101	Dynamic softening and indentation size effect in a Zr-based bulk glass-forming alloy. Scripta Materialia, 2007, 56, 605-608.	5.2	88
102	MÃ¶ssbauer, X-ray diffraction and magnetization studies of Feâ€“Mnâ€“Alâ€“Nb alloys prepared by high energy ball milling. Hyperfine Interactions, 2007, 168, 1057-1063.	0.5	1
103	Enhanced microhardness in nanocomposite Ti60Cu14Ni12Sn4Ta10 processed by high pressure torsion. Intermetallics, 2006, 14, 871-875.	3.9	11
104	Structural redetermination, thermal expansion and refractive indices of KLu(WO4)2. Journal of Applied Crystallography, 2006, 39, 230-236.	4.5	85
105	Influence of annealing on the microstructure and hardness of Ti67.79Fe28.36Sn3.85 nanocomposite rods. Scripta Materialia, 2006, 55, 1087-1090.	5.2	7
106	Exchange Bias in Ferromagnetic Nanoparticles Embedded in an Antiferromagnetic Matrix. ChemInform, 2006, 37, no.	0.0	1
107	Direct Synthesis of Isolated L10 FePt Nanoparticles in a Robust TiO2 Matrix via a Combined Solâ€“Gel/Pyrolysis Route. Advanced Materials, 2006, 18, 466-470.	21.0	33
108	Periodic Arrays of Micrometer and Sub-micrometer Magnetic Structures Prepared by Nanoindentation of a Nonmagnetic Intermetallic Compound. Advanced Materials, 2006, 18, 1717-1720.	21.0	30

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109	Selective generation of local ferromagnetism in austenitic stainless steel using nanoindentation. Applied Physics Letters, 2006, 89, 032509.	3.3	28
110	Volume expansion contribution to the magnetism of atomically disordered intermetallic alloys. Physical Review B, 2006, 74, .	3.2	59
111	Exploiting exchange bias length scales to fully tailor double-shifted hysteresis loops. , 2006, , .		0
112	Exchange bias in nanostructures. Physics Reports, 2005, 422, 65-117.	25.6	1,722
113	Exploiting Length Scales of Exchangeâ€Bias Systems to Fully Tailor Doubleâ€Shifted Hysteresis Loops. Advanced Materials, 2005, 17, 2978-2983.	21.0	102
114	A New Knot Technique for Vessel Ligatures. World Journal of Surgery, 2005, 29, 1356-1358.	1.6	6
115	Using exchange bias to extend the temperature range of square loop behavior in [Ptâ•Co] multilayers with perpendicular anisotropy. Applied Physics Letters, 2005, 87, 242504.	3.3	16
116	Exchange bias in ferromagnetic nanoparticles embedded in an antiferromagnetic matrix. International Journal of Nanotechnology, 2005, 2, 23.	0.2	77
117	Thermodynamic properties and absorptionâ€“desorption kinetics of Mg87Ni10Al3 alloy synthesised by reactive ball milling under H2 atmosphere. Journal of Alloys and Compounds, 2005, 404-406, 27-30.	5.5	20
118	Microstructural evolution during decomposition and crystallization of the Cu60Zr20Ti20 amorphous alloy. Journal of Materials Research, 2004, 19, 505-512.	2.6	36
119	Exchange bias effects in Fe nanoparticles embedded in an antiferromagnetic Cr2O3matrix. Nanotechnology, 2004, 15, S211-S214.	2.6	62
120	Cold-consolidation of ball-milled Fe-based amorphous ribbons by high pressure torsion. Scripta Materialia, 2004, 50, 1221-1225.	5.2	81
121	Influence of annealing treatments on crystallization and mechanical properties of a Alâ€“4Niâ€“6Ce glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 965-968.	5.6	1
122	Influence of the wheel speed on the thermal behaviour of Cu60Zr20Ti20 alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 776-780.	5.6	19
123	Thermal properties of Hf-based metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 381-384.	5.6	8
124	Thermal stability and crystallization behavior of Fe77C5B4(AlGa)3(PSi)11 metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 297-301.	5.6	7
125	Correlation between stacking fault formation, allotropic phase transformations and magnetic properties of ball-milled cobalt. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 869-873.	5.6	54
126	Ultraporous Single Phase Iron Oxideâ^'Silica Nanostructured Aerogels from Ferrous Precursors. Langmuir, 2004, 20, 1425-1429.	3.5	31

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127	Controlled Reduction of NiO Using Reactive Ball Milling under Hydrogen Atmosphere Leading to Niâ°NiO Nanocomposites. Chemistry of Materials, 2004, 16, 5664-5669.	6.7	42
128	Real time synchrotron studies on amorphous Al85Ce5Ni8Co2 and Al85Y5Ni8Co2 alloys. Journal of Alloys and Compounds, 2004, 368, 164-168.	5.5	15
129	Evolution of amorphous and nanocrystalline phases in mechanically alloyed Mg1.9M0.1Ni (M=Ti,Zr,V). Journal of Alloys and Compounds, 2004, 381, 66-71.	5.5	17
130	Thermal characterization of Cu60ZrxTi40â°x metallic glasses (x=15, 20, 22, 25, 30). Intermetallics, 2004, 12, 1063-1067.	3.9	24
131	Stability and crystallization of Feâ€“Coâ€“Nbâ€“B amorphous alloys. Journal of Non-Crystalline Solids, 2004, 333, 320-326.	3.1	21
132	Influence of the heat treatment on the crystallization mechanisms of Al85Y5Ni8Co2 metallic glass. Journal of Non-Crystalline Solids, 2004, 343, 143-149.	3.1	9
133	Properties of FeNiB-based metallic glasses with primary BCC and FCC crystallisation products. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 532-534.	2.3	12
134	Synthesis and Magnetic Properties of (Ln,Lnâ€²)3(Fe,Ti)29 (Ln: Pr, Nd and Lnâ€²: Sm, Er) Intermetallic Compounds.. ChemInform, 2003, 34, no.	0.0	0
135	Microstructural effects and large microhardness in cobalt processed by high pressure torsion consolidation of ball milled powders. Acta Materialia, 2003, 51, 6385-6393.	7.9	106
136	Crystallization of a Alâ€“4Niâ€“6Ce glass and its influence on mechanical properties. Acta Materialia, 2003, 51, 1067-1077.	7.9	33
137	Microstructural characterization of ultrafine-grained nickel. Physica Status Solidi A, 2003, 198, 263-271.	1.7	76
138	Isothermal tuning of exchange bias using pulsed fields. Applied Physics Letters, 2003, 82, 3044-3046.	3.3	48
139	Microstructural aspects of the hcp-fcc allotropic phase transformation induced in cobalt by ball milling. Philosophical Magazine, 2003, 83, 439-455.	1.6	69
140	Optimisation of the ball-milling and heat treatment parameters for synthesis of amorphous and nanocrystalline Mg2Ni-based alloys. Journal of Alloys and Compounds, 2003, 349, 242-254.	5.5	36
141	Synthesis and magnetic properties of (R,Râ€²)3(Fe,Ti)29 (R=Pr, Nd and Râ€²=Sm, Er) intermetallic compounds. Journal of Alloys and Compounds, 2003, 352, 73-78.	5.5	8
142	Synthesis and hydrogen sorption properties of nanocrystalline Mg1.9M0.1Ni (M=Ti, Zr, V) obtained by mechanical alloying. Journal of Alloys and Compounds, 2003, 356-357, 639-643.	5.5	19
143	High-coercivity ultralight transparent magnets. Applied Physics Letters, 2003, 82, 4307-4309.	3.3	30
144	Crystallization of Al-Ni-Ce Glass and Implications for Control of Mechanical Properties during Powder Consolidation. Journal of Metastable and Nanocrystalline Materials, 2003, 15-16, 61-66.	0.1	0

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145	Calorimetric and X-Ray Measurements in Ultrafine-Grained Nickel. Materials Science Forum, 2003, 426-432, 4507-4512.	0.3	13
146	Coercivity Enhancement in Ball-Milled and Heat-Treated Sr-Ferrite with Iron Sulphide. Journal of Metastable and Nanocrystalline Materials, 2003, 15-16, 599-606.	0.1	8
147	Role of stacking faults in the structural and magnetic properties of ball-milled cobalt. Physical Review B, 2003, 68, .	3.2	56
148	Magnetic interaction effects on the hard magnetic properties of ball-milled SmCo5+NiO and SmCo5+CoO composites: A Î”M plot study. Journal of Applied Physics, 2003, 93, 8140-8142.	2.5	5
149	Thermal stability, crystallization kinetics, and grain growth in an amorphous Al85Ce5Ni8Co2 alloy. Journal of Materials Research, 2002, 17, 2140-2146.	2.6	19
150	Structural and Magnetic Characterization of High-Coercive Ball-Milled Hard Magnetic (SmCo₅) + Antiferromagnetic (NiO) Composites. Materials Science Forum, 2002, 386-388, 465-472.	0.3	5
151	Influence of the B Content on the Structural and Magnetic Properties of Fe₆₀Mn₁₀Al_{30-x}B_x Prepared by Mechanical Alloying. Materials Science Forum, 2002, 386-388, 497-502.	0.3	0
152	Effect of the Milling Energy on the Milling-Induced hcp-fcc Cobalt Allotropic Transformations. Journal of Metastable and Nanocrystalline Materials, 2002, 12, 126-133.	0.1	12
153	Nanocrystallization in Mg83Ni17â^'xYx (x=0, 7.5) amorphous alloys. Journal of Alloys and Compounds, 2002, 345, 123-129.	5.5	27
154	Effect of magnetic interactions on the magnetic properties of ball-milled SmCo5+NiO powders. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 1287-1289.	2.3	6
155	The influence of composition and low temperature annealing on hardness and ductility of rapidly solidified Alâ€“Niâ€“Ce alloys. Scripta Materialia, 2002, 47, 31-37.	5.2	34
156	Magnetic and Structural Properties of Mechanically Alloyed FexMn0.70?xAl0.30 (x = 0.40 and 0.45) Alloys. Physica Status Solidi A, 2002, 189, 811-816.	1.7	9
157	Improving the energy product of hard magnetic materials. Physical Review B, 2002, 65, .	3.2	112
158	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
159	Influence of the milling conditions on the amorphization of Fe82Nb6B12 alloy. Journal of Non-Crystalline Solids, 2001, 287, 15-19.	3.1	12
160	Glass forming ability and crystallisation processes within the Alâ€“Niâ€“Sm system. Journal of Non-Crystalline Solids, 2001, 289, 214-220.	3.1	31
161	Disordering of B2 Intermetallics by Ball Milling, with Particular Attention of FeAl. Materials Science Forum, 2001, 360-362, 195-202.	0.3	3
162	Nanocrystallisation behaviour of Fe82Nb6B12 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 296-299.	5.6	4

#	Article	IF	Citations
163	Magnetic Phase Diagram of the Fe_xMn_{0.60-x}Al_{0.40} (0.20 â‰¤ X â‰¤ 0.60) Alloys Mechanically Alloyed for 48 Hours. Materials Science Forum, 2001, 360-362, 565-570.	0.3	4
164	Oxidation Influence on Crystallisation in Iron-Based Amorphous Alloys. Materials Science Forum, 2001, 360-362, 451-458.	0.3	0
165	Tailoring of paramagnetic (structurally ordered) nanometric grains separated by ferromagnetic (structurally disordered) grain boundaries: Isolating grain-boundary magnetic effects. Physical Review B, 2001, 63, .	3.2	33
166	Coercivity and squareness enhancement in ball-milled hard magneticâ€“antiferromagnetic composites. Applied Physics Letters, 2001, 79, 1142-1144.	3.3	103
167	Room temperature magnetic hardening in mechanically milled ferromagneticâ€“antiferromagnetic composites. Journal of Magnetism and Magnetic Materials, 2000, 219, 53-57.	2.3	30
168	Correlation between the Microstructure and Enhanced Room Temperature Coercivity in Ball Milled Ferromagnetic - Antiferromagnetic Composites. Materials Science Forum, 2000, 343-346, 812-818.	0.3	10
169	Hardening and softening of FeAl during milling and annealing. Intermetallics, 2000, 8, 805-813.	3.9	44
170	Evaluation of the Volume Fraction Crystallised during Devitrification of Al-Based Amorphous Alloys. Materials Science Forum, 2000, 343-346, 365-370.	0.3	32
171	Nanocrystallization Process in FeCuNbSiB Based Alloys. Materials Science Forum, 1999, 307, 95-100.	0.3	4
172	Correlation between Magnetic and Structural Parameters in Fe-40Al at % Nanostructured Alloys. Materials Science Forum, 1999, 312-314, 531-538.	0.3	5
173	Nanocrystallisation mechanisms in FeCuNbSiB-type alloys from comparative HREM, STM, TGM and calorimetric studies. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1999, 63, 238-246.	3.5	5
174	Magnetic investigations on the reordering of a ball milled Feî—¸40Al at% alloy. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 185-187.	2.3	4
175	Magnetic investigations on the disordering of a ball milled Feâ€“40 Alat% alloy. Journal of Magnetism and Magnetic Materials, 1999, 203, 129-131.	2.3	20
176	Room-temperature coercivity enhancement in mechanically alloyed antiferromagnetic-ferromagnetic powders. Applied Physics Letters, 1999, 75, 3177-3179.	3.3	105
177	Structural, mechanical and magnetic properties of nanostructured FeAl alloys during disordering and thermal recovery. Scripta Materialia, 1999, 11, 689-695.	0.5	24
178	New Gd-Al nanophase obtained by crystallization of Gd4Al3 metallic glass. Scripta Materialia, 1999, 12, 609-612.	0.5	3
179	Correlation between microstructure and softmagnetic properties of FeCuNbSiB based alloys. Scripta Materialia, 1999, 12, 677-680.	0.5	8
180	Microstructure and hardness of a nanostructured Fe-40Al at% alloy. Scripta Materialia, 1999, 12, 801-806.	0.5	12

#	Article	IF	Citations
181	Magnetic Hardening Induced by Exchange Coupling in Mechanically Milled Antiferromagnetic - Ferromagnetic Composites. Materials Research Society Symposia Proceedings, 1999, 581, 641.	0.1	3
182	Microstructural and kinetic aspects of the transformations induced in a FeAl alloy by ball-milling and thermal treatments. Acta Materialia, 1998, 46, 3305-3316.	7.9	84
183	Magnetic properties of ball milled Fe-40 Al at.% alloys. IEEE Transactions on Magnetics, 1998, 34, 1129-1131.	2.1	36
184	Magnetic and Transport Properties of Nanostructured Fe/Cu Mulitlayers. Materials Science Forum, 1998, 269-272, 931-936.	0.3	1
185	Magnetic and X-Ray Diffraction Investigations of the Reordering of a Ball Milled Fe-40Al at% Alloy. Materials Science Forum, 1998, 269-272, 637-642.	0.3	7
186	Influence of magnetization on the reordering of nanostructured ball-milled Fe-40 at. % Al powders. Physical Review B, 1998, 58, R11864-R11867.	3.2	82
187	NANOSTRUCTURAL FORMATION PROCESS IN Fe_{77.5}Cu₁Nb₃Si_x<font> ALLOYS. , 1998, , .	0	0
188	Kinetics of Reordering in A Nanograined FeAl Alloy. Materials Science Forum, 1997, 235-238, 415-420.	0.3	16
189	Rapid Solidification and Mechanical Grinding of Cu-Zn Alloys. Materials Science Forum, 1997, 235-238, 571-576.	0.3	1
190	Detailed analysis of the crystallization of the Co-P amorphous system: Kinetics, influence of magnetic order, and formation of textures. Physical Review B, 1997, 56, 6056-6065.	3.2	13
191	Crystallization Mechanisms of some Se_{100â€“x}Te_x Glassy Alloys. Journal of Materials Research, 1997, 12, 1069-1075.	2.6	7
192	Thermal stability and crystallization kinetics study of some Se-Te-Ge glassy alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 818-822.	5.6	9
193	Evaluation of crystal nucleation and growth from crystallization kinetics data of new halide glasses. Journal of Non-Crystalline Solids, 1996, 205-207, 546-549.	3.1	1
194	Optical fiber-drawing temperature of fluorogallate glasses. Journal of Materials Research, 1996, 11, 2633-2640.	2.6	5
195	Thermoanalytical Characterization of a Nanograined Fe-40Al Alloy. Materials Science Forum, 1996, 225-227, 395-400.	0.3	7
196	Amorphous to Nanocrystalline Transformation in Fe_{77.5}Cu₁Nb₃Si_{9.5}B<sub>9</sub Alloy. Materials Science Forum, 1996, 225-227, 347-352.	0	0
197	Crystallization mechanisms of a glassy alloy. Journal of Physics Condensed Matter, 1996, 8, 927-940.	1.8	9
198	Calorimetric Analyses of Mechanically Alloyed Ni₃Al-Based Powders (<I>Overview</I>). Materials Transactions, JIM, 1995, 36, 341-350.	0.9	1

#	Article	IF	Citations
199	On the Role of Cu in the Nanocrystallization of Fe-Zr-Based Meltspun Amorphous Alloys. Materials Science Forum, 1995, 179-181, 569-574.	0.3	1
200	Thermal Evolution of Nanocrystalline Intermetallic Materials by DSC Measurements. Materials Science Forum, 1995, 179-181, 463-468.	0.3	0
201	Nanocrystallization of amorphous FeCuNbSiB based alloys. Scripta Materialia, 1995, 6, 461-464.	0.5	10
202	Application of low-phonon energy glasses for optical amplification at 1.3 Î¼m. Proceedings of SPIE, 1994, 2073, 127.	0.8	1
203	Thermal properties and crystallization kinetics of new fluoride glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 179-180, 303-308.	5.6	3
204	Preparation of Feî—¸Ni based metal-metalloid amorphous powders by mechanical alloying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 181-182, 1285-1290.	5.6	9
205	Differential scanning calorimetry study of structural relaxation of Ge-doped Se85Te15 glasses. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1994, 22, 181-190.	3.5	5
206	Disordering and Reordering Kinetics of a Feâ€“40A1 B2 Alloy. Materials Research Society Symposia Proceedings, 1994, 364, 213.	0.1	9
207	Study of phase transformation kinetics: application to non-crystalline solids. Solid State Ionics, 1993, 63-65, 268-273.	2.7	3
208	Thermodynamic properties of nanocrystalline Ni3Al-based alloys prepared by mechanical attrition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 168, 161-164.	5.6	12
209	Reordering, recrystallization and recovery behaviour of (Co0.78Fe0.22)3V as a function of the initial state of order. Journal of Materials Science, 1993, 28, 538-546.	3.7	5
210	Intergranular microstructure-coercive field relationship in Nd16Fe76B8 alloys. Journal of Magnetism and Magnetic Materials, 1993, 119, 289-293.	2.3	3
211	Peculiarities accompanying the enthalpy recovery during structural relaxation of chalcogenic glasses. Journal of Non-Crystalline Solids, 1993, 163, 177-184.	3.1	4
212	Kinetics of reordering of Ni3Al disordered by ball-milling. Acta Metallurgica Et Materialia, 1993, 41, 1065-1073.	1.8	48
213	Low phonon-energy glasses for efficient 1.3 Î¼m optical fibre amplifiers. Electronics Letters, 1993, 29, 237.	1.0	101
214	Temperature-heating rate transformation curves: a new tool for the study of crystallization. Journal Physics D: Applied Physics, 1992, 25, 803-807.	2.8	9
215	Preparation of Iron-Metalloid Amorphous Powders by Mechanical Alloying. Materials Science Forum, 1992, 88-90, 275-282.	0.3	10
216	A new temperature versus heating rate transformation (T-HR-T) diagram: Application to study the crystallization behaviour of Fe67.5Co15Nb1.5B16 metallic glass. Acta Metallurgica Et Materialia, 1992, 40, 37-42.	1.8	18

#	Article	IF	Citations
217	Coercivity through controlled crystallization in melt-spun Ndî—¸Feî—¸B amorphous alloys. Journal of Alloys and Compounds, 1992, 182, 211-221.	5.5	13
218	Determination of T-T-T and T-HR-T curves from non-isothermal crystallization kinetic experiments. Thermochimica Acta, 1992, 203, 379-389.	2.7	19
219	Influence of manufacturing process parameters on magnetic characteristics of high - FeSi crystalline rapidly quenched ribbons. Journal of Magnetism and Magnetic Materials, 1992, 112, 232-234.	2.3	2
220	Calorimetric Study of Reordering of Disordered L12, Ni3Al Based Alloys. , 1992, , 55-66.		4
221	Enthalpy recovery in Se rich Geî—¸Se glasses during isothermal annealing and continuous heating. Journal of Non-Crystalline Solids, 1991, 131-133, 479-482.	3.1	10
222	Effect of the quenching conditions on the crystallization kinetics and morphology of Fe65Co18B16Si1. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 133, 807-810.	5.6	8
223	Amorphization of soft magnetic alloys by the mechanical alloying technique. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 134, 1368-1371.	5.6	27
224	Crystallization kinetic studies: A means to evaluate time-temperature-transformation curves. Application to metallic glasses. Journal of Thermal Analysis, 1991, 37, 1261-1268.	0.6	2
225	A crystallization study of the Ge25Sb20S55 glassy alloy. Journal of Materials Science, 1991, 26, 678-682.	3.7	4
226	DSC study of some Ge-Sb-S glasses. Journal of Materials Science, 1991, 26, 3680-3684.	3.7	11
227	Effect of the quenching conditions on the crystallization kinetics and morphology of Fe65Co18B16Si1. , 1991, , 807-810.		0
228	Magnetization versus heat treatment in rapidly solidified NdFeB alloys. IEEE Transactions on Magnetics, 1990, 26, 2613-2615.	2.1	3
229	Crystallization behavior of some melt spun Ndâ€“Feâ€“B alloys. Journal of Materials Research, 1990, 5, 1201-1206.	2.6	23
230	Influence of the Nature of Metalloid on the Morphology and Crystallization Kinetics of Fe-Co-B-Si Alloys. Key Engineering Materials, 1990, 40-41, 125-130.	0.4	2
231	Glass forming ability and crystallization kinetics of alloys in the GeSe2î—¸GeTeî—¸Sb2Te3 system. Journal of Non-Crystalline Solids, 1989, 111, 113-119.	3.1	5
232	The crystallization process of Ni78Si8B14 amorphous alloys. Materials Science and Engineering, 1988, 97, 333-336.	0.1	11
233	Thermal behaviour and corrosion characteristics of T78Si8B14 metallic glasses (T=Fe, Ni). Journal of Materials Science Letters, 1988, 7, 1336-1338.	0.5	0
234	Glass formation and crystallization in the GeSe2-GeTe-Sb2Te3 system. Thermochimica Acta, 1988, 133, 287-292.	2.7	2

#	Article	IF	Citations
235	Measurements of structural relaxation in amorphous Fe40Ni40B20 by differential scanning calorimetry. Materials Science and Engineering, 1988, 97, 533-536.	0.1	14
236	Relaxation processes below the glass transition in a GeSe2î—¸GeTeî—¸Sb2Te3 alloy. Journal of Non-Crystalline Solids, 1988, 104, 283-290.	3.1	16
237	Direct evidence of two different relaxation processes induced by heat treatment on Fe40Ni40B20glassy ribbons. Journal of Physics F: Metal Physics, 1988, 18, 2669-2681.	1.6	7
238	On the Crystallization Kinetics of Fe-B-Si Metallic Glasses*,**. Zeitschrift Fur Physikalische Chemie, 1988, 157, 395-399.	2.8	8
239	Thermodynamic and thermokinetic characteristics of the glass transition in a GeSe2î—¸GeTeî—¸Sb2Te3 alloy. Journal of Non-Crystalline Solids, 1986, 86, 311-321.	3.1	13
240	Thermodynamic aspects of glass-formation and crystallization in the GeSe2-S2Te3 system. Fluid Phase Equilibria, 1985, 20, 341-346.	2.5	7
241	Thermodynamic and kinetic characterization of vitreous eutectic GeSe2î—¸Sb2Te3 alloy. Thermochimica Acta, 1985, 85, 175-178.	2.7	6
242	Glass formation and crystallization in the GeSe2-Sb2Te3 system. Journal of Materials Science, 1984, 19, 3005-3012.	3.7	74
243	Glass-to-crystalline transformation in rapidly quenched Fe78B9Si13 ferromagnetic alloy. Journal of Non-Crystalline Solids, 1984, 69, 105-115.	3.1	12
244	Kinetic study of isothermal and continuous heating crystallization in GeSe2î—¸GeTeî—¸Sb2Te3 alloy glasses. Journal of Non-Crystalline Solids, 1983, 58, 209-217.	3.1	136
245	Kinetics of Ordering in Ni₃Al Based Alloys Disordered by Ball Milling. Materials Science Forum, 0, 88-90, 497-504.	0.3	13
246	2Mg-Fe Alloy Processed by Hot Extrusion: Influence of Particle Size and Extrusion Reduction Ratio on Hydrogenation Properties. Materials Science Forum, 0, 691, 3-9.	0.3	2