

Maria Dolores BarÃ³

List of Publications by Year in descending order

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299
papers

11,649
citations

31976

53
h-index

38395

95
g-index

301
all docs

301
docs citations

301
times ranked

10110
citing authors

#	ARTICLE	IF	CITATIONS
1	Unravelling the Elusive Antiferromagnetic Order in Wurtzite and Zinc Blende CoO Polymorph Nanoparticles. <i>Small</i> , 2018, 14, e1703963.	10.0	12
2	Tunable Magnetism in Nanoporous CuNi Alloys by Reversible Voltage-Driven Element-Selective Redox Processes. <i>Small</i> , 2018, 14, e1704396.	10.0	16
3	Progress Beyond the State-of-the-Art in the Field of Metallic Materials for Bioimplant Applications. , 2018, , 25-46.		0
4	Micelle-Assisted Electrodeposition of Mesoporous Fe-Pt Smooth Thin Films and their Electrocatalytic Activity towards the Hydrogen Evolution Reaction. <i>ChemSusChem</i> , 2018, 11, 367-375.	6.8	22
5	Clustering analysis strategies for electron energy loss spectroscopy (EELS). <i>Ultramicroscopy</i> , 2018, 185, 42-48.	1.9	18
6	Evaporation-induced self-assembly synthesis of Ni-doped mesoporous SnO ₂ thin films with tunable room temperature magnetic properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5517-5527.	5.5	19
7	Cross-sectioning spatio-temporal Co-In electrodeposits: Disclosing a magnetically-patterned nanolaminated structure. <i>Materials and Design</i> , 2017, 114, 202-207.	7.0	2
8	A facile co-precipitation synthesis of heterostructured ZrO ₂ ZnO nanoparticles as efficient photocatalysts for wastewater treatment. <i>Journal of Materials Science</i> , 2017, 52, 13779-13789.	3.7	18
9	Voltage-Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energy-Efficient Magnetic Actuation. <i>Advanced Functional Materials</i> , 2017, 27, 1701904.	14.9	41
10	Mechanical properties, corrosion performance and cell viability studies on newly developed porous Fe-Mn-Si-Pd alloys. <i>Journal of Alloys and Compounds</i> , 2017, 724, 1046-1056.	5.5	37
11	Micelle-assisted electrodeposition of highly mesoporous Fe-Pt nodular films with soft magnetic and electrocatalytic properties. <i>Nanoscale</i> , 2017, 9, 18081-18093.	5.6	17
12	Room-temperature synthesis of three-dimensional porous ZnO@CuNi hybrid magnetic layers with photoluminescent and photocatalytic properties. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 177-187.	6.1	4
13	Electrodeposition of sizeable and compositionally tunable rhodium-iron nanoparticles and their activity toward hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2016, 194, 263-275.	5.2	16
14	Novel Fe-Mn-Si-Pd alloys: insights into mechanical, magnetic, corrosion resistance and biocompatibility performances. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6402-6412.	5.8	37
15	Nanocasting synthesis of mesoporous SnO ₂ with a tunable ferromagnetic response through Ni loading. <i>RSC Advances</i> , 2016, 6, 104799-104807.	3.6	16
16	Spontaneous formation of spiral-like patterns with distinct periodic physical properties by confined electrodeposition of Co-In disks. <i>Scientific Reports</i> , 2016, 6, 30398.	3.3	9
17	Designing new biocompatible glass-forming Ti ₇₅ Al _x Zr ₁₀ Nb _x Si ₁₅ (x=0, 15) alloys: corrosion, passivity, and apatite formation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> . 2016. 104. 27-38.	3.4	23
18	Tailoring Staircase-like Hysteresis Loops in Electrodeposited Trisegmented Magnetic Nanowires: a Strategy toward Minimization of Interwire Interactions. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4109-4117.	8.0	23

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19	Electrochemically synthesized amorphous and crystalline nanowires: dissimilar nanomechanical behavior in comparison with homologous flat films. <i>Nanoscale</i> , 2016, 8, 1344-1351.	5.6	16
20	Sub-micron magnetic patterns and local variations of adhesion force induced in non-ferromagnetic amorphous steel by femtosecond pulsed laser irradiation. <i>Applied Surface Science</i> , 2016, 371, 399-406.	6.1	3
21	Ni-, Pt- and (Ni/Pt)-doped TiO ₂ nanophotocatalysts: A smart approach for sustainable degradation of Rhodamine B dye. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 270-278.	20.2	85
22	Effect of Surface Modifications of Ti ₄₀ Zr ₁₀ Cu ₃₈ Pd ₁₂ Bulk Metallic Glass and Ti-6Al-4V Alloy on Human Osteoblasts In Vitro Biocompatibility. <i>PLoS ONE</i> , 2016, 11, e0156644.	2.5	19
23	Sorption properties and reversibility of Ti(IV) and Nb(V)-fluoride doped-Ca(BH ₄) ₂ -MgH ₂ system. <i>Journal of Alloys and Compounds</i> , 2015, 622, 989-994.	5.5	18
24	Structurally and mechanically tunable molybdenum oxide films and patterned submicrometer structures by electrodeposition. <i>Electrochimica Acta</i> , 2015, 173, 705-714.	5.2	27
25	Nanomechanical behavior of 3D porous metal-ceramic nanocomposite Bi/Bi ₂ O ₃ films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 626, 150-158.	5.6	4
26	Origin of the large dispersion of magnetic properties in nanostructured oxides: Fe _x O/Fe ₃ O ₄ nanoparticles as a case study. <i>Nanoscale</i> , 2015, 7, 3002-3015.	5.6	76
27	Nanoindentation response of Cu-Ti based metallic glasses: Comparison between as-cast, relaxed and devitrified states. <i>Journal of Non-Crystalline Solids</i> , 2015, 425, 103-109.	3.1	38
28	New binuclear copper coordination polymer based on mixed pyrazolic and oxalate ligands: structural characterization and mechanical properties. <i>RSC Advances</i> , 2015, 5, 32369-32375.	3.6	6
29	Role of aluminum chloride on the reversible hydrogen storage properties of the Li-N-H system. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 13506-13517.	7.1	20
30	Evaluation of the anatase/rutile phase composition influence on the photocatalytic performances of mesoporous TiO ₂ powders. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14483-14491.	7.1	23
31	Mesoporous Titania Powders: The Role of Precursors, Ligand Addition and Calcination Rate on Their Morphology, Crystalline Structure and Photocatalytic Activity. <i>Nanomaterials</i> , 2014, 4, 583-598.	4.1	18
32	Improvement to the Corrosion Resistance of Ti-Based Implants Using Hydrothermally Synthesized Nanostructured Anatase Coatings. <i>Materials</i> , 2014, 7, 180-194.	2.9	50
33	Drastic influence of minor Fe or Co additions on the glass forming ability, martensitic transformations and mechanical properties of shape memory Zr-Cu-Al bulk metallic glass composites. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 035015.	6.1	14
34	Structural and mechanical modifications induced on Cu _{47.5} Zr _{47.5} Al ₅ metallic glass by surface laser treatments. <i>Applied Surface Science</i> , 2014, 290, 188-193.	6.1	19
35	In vitro biocompatibility assessment of Ti ₄₀ Cu ₃₈ Zr ₁₀ Pd ₁₂ bulk metallic glass. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 163-172.	3.6	19
36	Effects of shot peening on the nanoindentation response of Cu _{47.5} Zr _{47.5} Al ₅ metallic glass. <i>Journal of Alloys and Compounds</i> , 2014, 586, S36-S40.	5.5	9

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37	Effect of Nb addition on microstructure evolution and nanomechanical properties of a glass-forming Tiâ€Zrâ€Si alloy. <i>Intermetallics</i> , 2014, 46, 156-163.	3.9	45
38	Electrodeposition of magnetic, superhydrophobic, non-stick, two-phase Cuâ€Ni foam films and their enhanced performance for hydrogen evolution reaction in alkaline water media. <i>Nanoscale</i> , 2014, 6, 12490-12499.	5.6	84
39	Self-organized spatio-temporal micropatterning in ferromagnetic Coâ€In films. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8259-8269.	5.5	9
40	Direct evidence for an interdiffused intermediate layer in bi-magnetic coreâ€shell nanoparticles. <i>Nanoscale</i> , 2014, 6, 11911-11920.	5.6	46
41	Facile <i>in Situ</i> Synthesis of BiOCl Nanoplates Stacked to Highly Porous TiO ₂ : A Synergistic Combination for Environmental Remediation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13994-14000.	8.0	46
42	Influence of the irradiation temperature on the surface structure and physical/chemical properties of Ar ion-irradiated bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , 2014, 610, 118-125.	5.5	13
43	Structural evolution upon decomposition of the LiAlH ₄ +LiBH ₄ system. <i>Journal of Alloys and Compounds</i> , 2014, 615, S693-S697.	5.5	15
44	Unusual oxidation behavior of light metal hydride by tetrahydrofuran solvent molecules confined in ordered mesoporous carbon. <i>Journal of Materials Research</i> , 2014, 29, 55-63.	2.6	2
45	Effect of Thermally-Induced Surface Oxidation on the Mechanical Properties and Corrosion Resistance of Zr ₆₀ Cu ₂₅ Al ₁₀ Fe ₅ Bulk Metallic Glass. <i>Science of Advanced Materials</i> , 2014, 6, 27-36.	0.7	4
46	White-light photoluminescence and photoactivation in cadmium sulfide embedded in mesoporous silicon dioxide templates studied by confocal laser scanning microscopy. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 47-59.	9.4	8
47	Ammonia-free infiltration of NaBH ₄ into highly-ordered mesoporous silica and carbon matrices for hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2013, 580, S309-S312.	5.5	18
48	Tailoring the physical properties of electrodeposited CoNiReP alloys with large Re content by direct, pulse, and reverse pulse current techniques. <i>Electrochimica Acta</i> , 2013, 96, 43-50.	5.2	8
49	Correlating material-specific layers and magnetic distributions within onion-like Fe ₃ O ₄ /MnO ₂ -Mn ₂ O ₃ core/shell nanoparticles. <i>Journal of Applied Physics</i> , 2013, 113, 17B531.	2.5	20
50	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. <i>Nature Communications</i> , 2013, 4, 2960.	12.8	160
51	Influence of the shot-peening intensity on the structure and near-surface mechanical properties of Ti ₄₀ Zr ₁₀ Cu ₃₈ Pd ₁₂ bulk metallic glass. <i>Applied Physics Letters</i> , 2013, 103, 211907.	3.3	18
52	Ordered arrays of ferromagnetic, compositionally graded Cu _{1-x} Ni _x alloy nanopillars prepared by template-assisted electrodeposition. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7215.	5.5	11
53	Highly ordered mesoporous magnesium niobate high- ϵ_r dielectric ceramic: synthesis, structural/mechanical characterization and thermal stability. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4948.	5.5	4
54	Resolving Material-Specific Structures within Fe ₃ O ₄ /Mn ₂ O ₃ Core Shell Nanoparticles Using Anomalous Small-Angle X-ray Scattering. <i>ACS Nano</i> , 2013, 7, 921-931.	14.6	36

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55	Mechanochemical synthesis of NaBH ₄ starting from NaHâ€“MgB ₂ reactive hydride composite system. International Journal of Hydrogen Energy, 2013, 38, 2363-2369.	7.1	19
56	Anodic formation of self-organized Ti(Nb,Sn) oxide nanotube arrays with tuneable aspect ratio and size distribution. Electrochemistry Communications, 2013, 33, 84-87.	4.7	10
57	NaAlH ₄ confined in ordered mesoporous carbon. International Journal of Hydrogen Energy, 2013, 38, 8829-8837.	7.1	21
58	Controlled 3D-coating of the pores of highly ordered mesoporous antiferromagnetic Co ₃ O ₄ replicas with ferrimagnetic Fe _x Co _{3-â€“x} O ₄ nanolayers. Nanoscale, 2013, 5, 5561.	5.6	12
59	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
60	Chemical State, Distribution, and Role of Ti- and Nb-Based Additives on the Ca(BH ₄) ₂ System. Journal of Physical Chemistry C, 2013, 117, 4394-4403.	3.1	25
61	3D hierarchically porous Cuâ€“BiOCl nanocomposite films: one-step electrochemical synthesis, structural characterization and nanomechanical and photoluminescent properties. Nanoscale, 2013, 5, 12542.	5.6	33
62	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
63	Ca(BH ₄) ₂ + MgH ₂ : Desorption Reaction and Role of Mg on Its Reversibility. Journal of Physical Chemistry C, 2013, 117, 3846-3852.	3.1	35
64	On the biodegradability, mechanical behavior, and cytocompatibility of amorphous Mg ₇₂ Zn ₂₃ Ca ₅ and crystalline Mg ₇₀ Zn ₂₃ Ca ₅ Pd ₂ alloys as temporary implant materials. Journal of Biomedical Materials Research - Part A, 2013, 101A, 502-517.	4.0	24
65	Novel Tiâ€“Zrâ€“Hfâ€“Fe Nanostructured Alloy for Biomedical Applications. Materials, 2013, 6, 4930-4945.	2.9	30
66	Comparative study of nanoindentation on melt-spun ribbon and bulk metallic glass with Ni ₆₀ Nb ₃₇ B ₃ composition. Journal of Materials Research, 2013, 28, 2740-2746.	2.6	7
67	EEL spectroscopic tomography: Towards a new dimension in nanomaterials analysis. Ultramicroscopy, 2012, 122, 12-18.	1.9	37
68	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
69	Deformation and fracture behavior of corrosion-resistant, potentially biocompatible, Ti ₄₀ Zr ₁₀ Cu ₃₈ Pd ₁₂ bulk metallic glass. Journal of Alloys and Compounds, 2012, 536, S74-S77.	5.5	6
70	Mechanical and corrosion behaviour of as-cast and annealed Zr ₆₀ Cu ₂₀ Al ₁₀ Fe ₅ Ti ₅ bulk metallic glass. Intermetallics, 2012, 28, 149-155.	3.9	31
71	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
72	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

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73	Hydrogen storage in 2NaBH ₄ +MgH ₂ mixtures: Destabilization by additives and nanoconfinement. Journal of Alloys and Compounds, 2012, 536, S236-S240.	5.5	21
74	Helical and Tubular Lipid Microstructures that are Electroless-Coated with CoNiReP for Wireless Magnetic Manipulation. Small, 2012, 8, 1498-1502.	10.0	51
75	Strongly exchange coupled inverse ferrimagnetic soft/hard, M _n xFe ₃ xO ₄ /FexMn ₃ xO ₄ , core/shell heterostructured nanoparticles. Nanoscale, 2012, 4, 5138.	5.6	76
76	Distinguishing the core from the shell in MnO _x /MnO _y and FeO _x /MnO _x core/shell nanoparticles through quantitative electron energy loss spectroscopy (EELS) analysis. Micron, 2012, 43, 30-36.	2.2	36
77	Improved mechanical performance and delayed corrosion phenomena in biodegradable Mg-Zn-Ca alloys through Pd-alloying. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 6, 53-62.	3.1	72
78	Effect of Transition Metal Fluorides on the Sorption Properties and Reversible Formation of Ca(BH ₄) ₂ . Journal of Physical Chemistry C, 2011, 115, 2497-2504.	3.1	58
79	Experimental Evidence of Na ₂ [B ₁₂ H ₁₂] and Na Formation in the Desorption Pathway of the 2NaBH ₄ +MgH ₂ System. Journal of Physical Chemistry C, 2011, 115, 16664-16671.	3.1	46
80	Experimental Evidence of Ca[B ₁₂ H ₁₂] Formation During Decomposition of a Ca(BH ₄) ₂ + MgH ₂ Based Reactive Hydride Composite. Journal of Physical Chemistry C, 2011, 115, 18010-18014.	3.1	43
81	Structure and Thermodynamic Properties of the NaMgH ₃ Perovskite: A Comprehensive Study. Chemistry of Materials, 2011, 23, 2317-2326.	6.7	54
82	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
83	Nanoscale phase separation in coated Ag nanoparticles. Nanoscale, 2011, 3, 4220.	5.6	4
84	2Mg-Fe alloys processed by hot-extrusion: Influence of processing temperature and the presence of MgO and MgH ₂ on hydrogenation sorption properties. Journal of Alloys and Compounds, 2011, 509, S460-S463.	5.5	19
85	Indentation plastic work and large compression plasticity in in situ nanocrystallized Zr ₆₂ Cu ₁₈ Ni ₁₀ Al ₁₀ bulk metallic glass. Journal of Alloys and Compounds, 2011, 509, S87-S91.	5.5	2
86	Grain Boundary Segregation and Interdiffusion Effects in Nickel-Copper Alloys: An Effective Means to Improve the Thermal Stability of Nanocrystalline Nickel. ACS Applied Materials & Interfaces, 2011, 3, 2265-2274.	8.0	63
87	A comparison between fine-grained and nanocrystalline electrodeposited Cu-Ni films. Insights on mechanical and corrosion performance. Surface and Coatings Technology, 2011, 205, 5285-5293.	4.8	56
88	Enhanced mechanical properties and in vitro corrosion behavior of amorphous and devitrified Ti ₄₀ Zr ₁₀ Cu ₃₈ Pd ₁₂ metallic glass. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 1709-1717.	3.1	97
89	Activation of the reactive hydride composite 2NaBH ₄ +MgH ₂ . Scripta Materialia, 2011, 64, 1035-1038.	5.2	37
90	Effects of the anion in glycine-containing electrolytes on the mechanical properties of electrodeposited Co-Ni films. Materials Chemistry and Physics, 2011, 130, 1380-1386.	4.0	39

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91	The effect of saccharine on the localized electrochemical deposition of Cu-rich Cu-Ni microcolumns. <i>Electrochemistry Communications</i> , 2011, 13, 973-976.	4.7	21
92	High-performance electrodeposited Co-rich CoNiReP permanent magnets. <i>Electrochimica Acta</i> , 2011, 56, 8979-8988.	5.2	9
93	Thermodynamic and Kinetic Investigations on Pure and Doped NaBH ₄ -MgH ₂ System. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3151-3162.	3.1	50
94	Influence of the preparation method on the morphology of templated NiCo ₂ O ₄ spinel. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3671-3681.	1.9	9
95	The Influence of Deformation-Induced Martensitic Transformations on the Mechanical Properties of Nanocomposite Cu-Zr(Al) Systems. <i>Advanced Engineering Materials</i> , 2011, 13, 57-63.	3.5	20
96	Morphology, structure and magnetic properties of cobalt-nickel films obtained from acidic electrolytes containing glycine. <i>Electrochimica Acta</i> , 2011, 56, 1399-1408.	5.2	93
97	Electrodeposition of cobalt-yttrium hydroxide/oxide nanocomposite films from particle-free aqueous baths containing chloride salts. <i>Electrochimica Acta</i> , 2011, 56, 5142-5150.	5.2	20
98	Hydrogen sorption performance of MgH ₂ doped with mesoporous nickel- and cobalt-based oxides. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5400-5410.	7.1	81
99	Structural and magnetic characterization of batch-fabricated nickel encapsulated multi-walled carbon nanotubes. <i>Nanotechnology</i> , 2011, 22, 275713.	2.6	19
100	Can Na ₂ [B ₁₂ H ₁₂] be a decomposition product of NaBH ₄ ?. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15093.	2.8	49
101	Enhanced mechanical properties in a Zr-based metallic glass caused by deformation-induced nanocrystallization. <i>Scripta Materialia</i> , 2010, 62, 13-16.	5.2	41
102	Nanocrystalline Electroplated Cu-Ni: Metallic Thin Films with Enhanced Mechanical Properties and Tunable Magnetic Behavior. <i>Advanced Functional Materials</i> , 2010, 20, 983-991.	14.9	92
103	Sorption properties of NaBH ₄ /MH ₂ (M=Mg, Ti) powder systems. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5434-5441.	7.1	57
104	Enhanced mechanical properties due to structural changes induced by devitrification in Fe-Co-B-Si-Nb bulk metallic glass. <i>Acta Materialia</i> , 2010, 58, 6256-6266.	7.9	88
105	Out-of-plane Magnetic Patterning Based on Indentation-Induced Nanocrystallization of a Metallic Glass. <i>Small</i> , 2010, 6, 1543-1549.	10.0	18
106	NaBX ₄ -MgX ₂ Composites (X= D,H) Investigated by In situ Neutron Diffraction. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1262, 1.	0.1	3
107	Synthesis of compositionally graded nanocast NiO/NiCo ₂ O ₄ /Co ₃ O ₄ mesoporous composites with tunable magnetic properties. <i>Journal of Materials Chemistry</i> , 2010, 20, 7021.	6.7	81
108	Out-of-plane magnetic patterning on austenitic stainless steels using plasma nitriding. <i>Applied Physics Letters</i> , 2010, 96, 242509.	3.3	9

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109	Pressure Effect on the $2\text{NaH} + \text{MgB}_2$ Hydrogen Absorption Reaction. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21816-21823.	3.1	53
110	Magnetic Measurements as a Sensitive Tool for Studying Dehydrogenation Processes in Hydrogen Storage Materials. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16818-16822.	3.1	3
111	Tuning the microstructure and mechanical properties of Al-based amorphous/crystalline composites by addition of Pd. <i>Intermetallics</i> , 2010, 18, 2377-2384.	3.9	10
112	Partial crystallization and corrosion resistance of amorphous Fe-Cr-M-B (M=Mo, Nb) alloys. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 2651-2657.	3.1	44
113	Mechanical behavior under nanoindentation of a new Ni-based glassy alloy produced by melt-spinning and copper mold casting. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 2251-2257.	3.1	13
114	Microstructural characterization and hydrogenation study of extruded MgFe alloy. <i>Journal of Alloys and Compounds</i> , 2010, 504, S299-S301.	5.5	19
115	Effects of severe plastic deformation on the structure and thermo-mechanical properties of $\text{Zr}_{55}\text{Cu}_{30}\text{Al}_{10}\text{Ni}_5$ bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2010, 500, 61-67.	5.5	31
116	Synthesis of amorphous $\text{Mg}(\text{BH}_4)_2$ from MgB_2 and H_2 at room temperature. <i>Journal of Alloys and Compounds</i> , 2010, 508, 212-215.	5.5	66
117	Size-Dependent Passivation Shell and Magnetic Properties in Antiferromagnetic/Ferrimagnetic Core/Shell MnO Nanoparticles. <i>Journal of the American Chemical Society</i> , 2010, 132, 9398-9407.	13.7	106
118	Evolution of the Mechanical Properties of Ti-Based Metallic Glass During Depth-Sensing Load-Unload Nanoindentation Cycles. <i>Nanoscience and Nanotechnology Letters</i> , 2010, 2, 298-302.	0.4	5
119	Direct Magnetic Patterning due to the Generation of Ferromagnetism by Selective Ion Irradiation of Paramagnetic FeAl Alloys. <i>Small</i> , 2009, 5, 229-234.	10.0	71
120	Magnetic Proximity Effect Features in Antiferromagnetic/Ferrimagnetic Core-Shell Nanoparticles. <i>Physical Review Letters</i> , 2009, 102, 247201.	7.8	85
121	Structural relaxation and rejuvenation in a metallic glass induced by shot-peening. <i>Philosophical Magazine Letters</i> , 2009, 89, 831-840.	1.2	98
122	Controlled generation of ferromagnetic martensite from paramagnetic austenite in AISI 316L austenitic stainless steel. <i>Journal of Materials Research</i> , 2009, 24, 565-573.	2.6	16
123	Hydrogen desorption mechanism of $2\text{NaBH}_4 + \text{MgH}_2$ composite prepared by high-energy ball milling. <i>Scripta Materialia</i> , 2009, 60, 1129-1132.	5.2	69
124	Yielding and intrinsic plasticity of Ti-Zr-Ni-Cu-Be bulk metallic glass. <i>International Journal of Plasticity</i> , 2009, 25, 1540-1559.	8.8	103
125	Unconventional elastic properties, deformation behavior and fracture characteristics of newly developed rare earth bulk metallic glasses. <i>Intermetallics</i> , 2009, 17, 1090-1097.	3.9	25
126	Influence of the loading rate on the indentation response of Ti-based metallic glass. <i>Journal of Materials Research</i> , 2009, 24, 918-925.	2.6	15

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127	Work-hardening mechanisms of the Ti ₆₀ Cu ₁₄ Ni ₁₂ Sn ₄ Nb ₁₀ nanocomposite alloy. <i>Journal of Materials Research</i> , 2009, 24, 3146-3153.	2.6	12
128	Mesoporous NiCo ₂ O ₄ Spinel: Influence of Calcination Temperature over Phase Purity and Thermal Stability. <i>Crystal Growth and Design</i> , 2009, 9, 4814-4821.	3.0	78
129	H ₂ sorption performance of NaBH ₄ –MgH ₂ composites prepared by mechanical activation. <i>WIT Transactions on Ecology and the Environment</i> , 2009, , .	0.0	2
130	Cold Consolidation of Metal–Ceramic Nanocomposite Powders with Large Ceramic Fractions. <i>Advanced Functional Materials</i> , 2008, 18, 3293-3298.	14.9	31
131	Microstructural inhomogeneities introduced in a Zr-based bulk metallic glass upon low-temperature annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 491, 124-130.	5.6	50
132	Crystallization of Amorphous Al ₈₅ Ce ₅ Ni ₁₀ Ribbon. <i>Materials Science Forum</i> , 2008, 570, 126-131.	0.3	0
133	Cubic versus Spherical Magnetic Nanoparticles: The Role of Surface Anisotropy. <i>Journal of the American Chemical Society</i> , 2008, 130, 13234-13239.	13.7	226
134	Glass forming ability of the Al–Ce–Ni system. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 4874-4877.	3.1	37
135	Patterning of magnetic structures on austenitic stainless steel by local ion beam nitriding. <i>Acta Materialia</i> , 2008, 56, 4570-4576.	7.9	17
136	Two-fold origin of the deformation-induced ferromagnetism in bulk Fe ₆₀ Al ₄₀ (at.%) alloys. <i>New Journal of Physics</i> , 2008, 10, 103030.	2.9	25
137	A Numerical Algorithm for Magnetohydrodynamics of Ablated Materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 3674-3685.	0.9	11
138	Impact of magnetization easy-axis distributions on the ferromagnet-antiferromagnet exchange-coupling estimation. <i>Physical Review B</i> , 2008, 77, .	3.2	10
139	Tailoring the magnetization reversal of elliptical dots using exchange bias (invited). <i>Journal of Applied Physics</i> , 2008, 103, 07C109.	2.5	12
140	Microstructural evolution during solid-state sintering of ball-milled nanocomposite WC–10 mass% Co powders. <i>Nanotechnology</i> , 2007, 18, 185609.	2.6	8
141	Tailoring deformation-induced effects in Co powders by milling them with \pm Al ₂ O ₃ . <i>Journal of Materials Research</i> , 2007, 22, 2998-3005.	2.6	5
142	Phase Separation and Crystallization in Cu-Zr Metallic Glasses. <i>Materials Transactions</i> , 2007, 48, 1639-1643.	1.2	12
143	Cold compaction of metal–ceramic (ferromagnetic–antiferromagnetic) composites using high pressure torsion. <i>Journal of Alloys and Compounds</i> , 2007, 434-435, 505-508.	5.5	40
144	Severe plastic deformation of a Ti-based nanocomposite alloy studied by nanoindentation. <i>Intermetallics</i> , 2007, 15, 1038-1045.	3.9	14

#	ARTICLE	IF	CITATIONS
145	Reversible post-synthesis tuning of the superparamagnetic blocking temperature of γ -Fe ₂ O ₃ nanoparticles by adsorption and desorption of Co(II) ions. <i>Journal of Materials Chemistry</i> , 2007, 17, 322-328.	6.7	43
146	Enhanced Coercivity in Co-Rich Near-Stoichiometric Co _x Fe _{3-x} O ₄ Nanoparticles Prepared in Large Batches. <i>Chemistry of Materials</i> , 2007, 19, 4957-4963.	6.7	43
147	Synthesis and Size-Dependent Exchange Bias in Inverted Core-Shell MnO Mn ₃ O ₄ Nanoparticles. <i>Journal of the American Chemical Society</i> , 2007, 129, 9102-9108.	13.7	261
148	Mechanical properties of a two-phase amorphous Ni ₄₀ Nb ₄₀ Y alloy studied by nanoindentation. <i>Scripta Materialia</i> , 2007, 56, 85-88.	5.2	46
149	Dynamic softening and indentation size effect in a Zr-based bulk glass-forming alloy. <i>Scripta Materialia</i> , 2007, 56, 605-608.	5.2	88
150	Anelastic deformation of a Pd ₄₀ Cu ₃₀ Ni ₁₀ P ₂₀ bulk metallic glass during nanoindentation. <i>Applied Physics Letters</i> , 2006, 88, 1719-1721.	3.3	37
151	Fracture surface morphology of compressed bulk metallic glass-matrix-composites and bulk metallic glass. <i>Intermetallics</i> , 2006, 14, 982-986.	3.9	66
152	Enhanced microhardness in nanocomposite Ti ₆₀ Cu ₁₄ Ni ₁₂ Sn ₄ Ta ₁₀ processed by high pressure torsion. <i>Intermetallics</i> , 2006, 14, 871-875.	3.9	11
153	Influence of annealing on the microstructure and hardness of Ti _{67.79} Fe _{28.36} Sn _{3.85} nanocomposite rods. <i>Scripta Materialia</i> , 2006, 55, 1087-1090.	5.2	7
154	Direct Synthesis of Isolated L1 ₀ FePt Nanoparticles in a Robust TiO ₂ Matrix via a Combined Sol-Gel/Pyrolysis Route. <i>Advanced Materials</i> , 2006, 18, 466-470.	21.0	33
155	Periodic Arrays of Micrometer and Sub-micrometer Magnetic Structures Prepared by Nanoindentation of a Nonmagnetic Intermetallic Compound. <i>Advanced Materials</i> , 2006, 18, 1717-1720.	21.0	30
156	Imprinting Vortices into Antiferromagnets. <i>Physical Review Letters</i> , 2006, 97, 067201.	7.8	51
157	Selective generation of local ferromagnetism in austenitic stainless steel using nanoindentation. <i>Applied Physics Letters</i> , 2006, 89, 032509.	3.3	28
158	Volume expansion contribution to the magnetism of atomically disordered intermetallic alloys. <i>Physical Review B</i> , 2006, 74, .	3.2	59
159	Controlling magnetic vortices through exchange bias. <i>Applied Physics Letters</i> , 2006, 88, 042502.	3.3	22
160	Bulk amorphous FeCrMoGaPCB: Preparation and magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 1480-1482.	2.3	43
161	Exchange bias in nanostructures. <i>Physics Reports</i> , 2005, 422, 65-117.	25.6	1,722
162	The microstructural characteristics of ultrafine-grained nickel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 391, 377-389.	5.6	185

#	ARTICLE	IF	CITATIONS
163	Exploiting Length Scales of Exchange-Bias Systems to Fully Tailor Double-Shifted Hysteresis Loops. <i>Advanced Materials</i> , 2005, 17, 2978-2983.	21.0	102
164	Using exchange bias to extend the temperature range of square loop behavior in [Pt/Co] multilayers with perpendicular anisotropy. <i>Applied Physics Letters</i> , 2005, 87, 242504.	3.3	16
165	Plastic Deformation and Mechanical Softening of Pd ₄₀ Cu ₃₀ Ni ₁₀ P ₂₀ Bulk Metallic Glass During Nanoindentation. <i>Journal of Materials Research</i> , 2005, 20, 2719-2725.	2.6	48
166	Mechanical Characterization of Cu ₆₀ Zr ₂₂ Ti ₁₈ Bulk Metallic Glasses. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2005, 24-25, 669-672.	0.1	0
167	Exchange bias in ferromagnetic nanoparticles embedded in an antiferromagnetic matrix. <i>International Journal of Nanotechnology</i> , 2005, 2, 23.	0.2	77
168	Direct hydriding of Mg ₈₇ Al ₇ Ni ₃ Mn ₃ by reactive mechanical milling in hydrogen atmosphere and influence of particle size on the dehydriding reaction. <i>Journal of Alloys and Compounds</i> , 2005, 388, 98-103.	5.5	20
169	Hydriding/dehydriding properties of nanocrystalline Mg ₈₇ Ni ₃ Al ₃ M ₇ (M=Ti, Mn, Ce, La) alloys prepared by ball milling. <i>Journal of Alloys and Compounds</i> , 2005, 398, 139-144.	5.5	30
170	Thermodynamic properties and absorption-desorption kinetics of Mg ₈₇ Ni ₁₀ Al ₃ alloy synthesised by reactive ball milling under H ₂ atmosphere. <i>Journal of Alloys and Compounds</i> , 2005, 404-406, 27-30.	5.5	20
171	Effect of relaxation and primary nanocrystallization on the mechanical properties of Cu ₆₀ Zr ₂₂ Ti ₁₈ bulk metallic glass. <i>Intermetallics</i> , 2005, 13, 1214-1219.	3.9	58
172	Microstructural evolution during decomposition and crystallization of the Cu ₆₀ Zr ₂₀ Ti ₂₀ amorphous alloy. <i>Journal of Materials Research</i> , 2004, 19, 505-512.	2.6	36
173	Exchange bias effects in Fe nanoparticles embedded in an antiferromagnetic Cr ₂ O ₃ matrix. <i>Nanotechnology</i> , 2004, 15, S211-S214.	2.6	62
174	Cold-consolidation of ball-milled Fe-based amorphous ribbons by high pressure torsion. <i>Scripta Materialia</i> , 2004, 50, 1221-1225.	5.2	81
175	Influence of annealing treatments on crystallization and mechanical properties of a Al ₄ Ni ₆ Ce glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 375-377, 965-968.	5.6	1
176	Mg-Ni-RE nanocrystalline alloys for hydrogen storage. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 375-377, 794-799.	5.6	139
177	Influence of Co addition on the magnetic and thermal stability behavior of Fe ₇₇ CoAl _{2.14} P _{8.4} C ₅ B ₄ Ga _{0.86} Si _{2.6} amorphous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E1153-E1154.	2.3	2
178	Influence of the wheel speed on the thermal behaviour of Cu ₆₀ Zr ₂₀ Ti ₂₀ alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 375-377, 776-780.	5.6	19
179	Thermal properties of Hf-based metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 375-377, 381-384.	5.6	8
180	Thermal stability and crystallization behavior of Fe ₇₇ C ₅ B ₄ (AlGa) ₃ (PSi) ₁₁ metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 375-377, 297-301.	5.6	7

#	ARTICLE	IF	CITATIONS
181	Correlation between stacking fault formation, allotropic phase transformations and magnetic properties of ball-milled cobalt. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 375-377, 869-873.	5.6	54
182	Ultraporous Single Phase Iron Oxide-Silica Nanostructured Aerogels from Ferrous Precursors. <i>Langmuir</i> , 2004, 20, 1425-1429.	3.5	31
183	Controlled Reduction of NiO Using Reactive Ball Milling under Hydrogen Atmosphere Leading to Ni-NiO Nanocomposites. <i>Chemistry of Materials</i> , 2004, 16, 5664-5669.	6.7	42
184	Real time synchrotron studies on amorphous Al ₈₅ Ce ₅ Ni ₈ Co ₂ and Al ₈₅ Y ₅ Ni ₈ Co ₂ alloys. <i>Journal of Alloys and Compounds</i> , 2004, 368, 164-168.	5.5	15
185	Evolution of amorphous and nanocrystalline phases in mechanically alloyed Mg _{1.9} M _{0.1} Ni (M=Ti,Zr,V). <i>Journal of Alloys and Compounds</i> , 2004, 381, 66-71.	5.5	17
186	Thermal characterization of Cu ₆₀ Zr _x Ti _{40-x} metallic glasses (x=15, 20, 22, 25, 30). <i>Intermetallics</i> , 2004, 12, 1063-1067.	3.9	24
187	Stability and crystallization of Fe-Co-Nb amorphous alloys. <i>Journal of Non-Crystalline Solids</i> , 2004, 333, 320-326.	3.1	21
188	Influence of the heat treatment on the crystallization mechanisms of Al ₈₅ Y ₅ Ni ₈ Co ₂ metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2004, 343, 143-149.	3.1	9
189	Properties of FeNiB-based metallic glasses with primary BCC and FCC crystallisation products. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 254-255, 532-534.	2.3	12
190	Microstructural effects and large microhardness in cobalt processed by high pressure torsion consolidation of ball milled powders. <i>Acta Materialia</i> , 2003, 51, 6385-6393.	7.9	106
191	Experimental parameters influencing grain refinement and microstructural evolution during high-pressure torsion. <i>Acta Materialia</i> , 2003, 51, 753-765.	7.9	717
192	Crystallization of a Al ₄ Ni ₆ Ce glass and its influence on mechanical properties. <i>Acta Materialia</i> , 2003, 51, 1067-1077.	7.9	33
193	Microstructural characterization of ultrafine-grained nickel. <i>Physica Status Solidi A</i> , 2003, 198, 263-271.	1.7	76
194	Isothermal tuning of exchange bias using pulsed fields. <i>Applied Physics Letters</i> , 2003, 82, 3044-3046.	3.3	48
195	Microstructural aspects of the hcp-fcc allotropic phase transformation induced in cobalt by ball milling. <i>Philosophical Magazine</i> , 2003, 83, 439-455.	1.6	69
196	Optimisation of the ball-milling and heat treatment parameters for synthesis of amorphous and nanocrystalline Mg ₂ Ni-based alloys. <i>Journal of Alloys and Compounds</i> , 2003, 349, 242-254.	5.5	36
197	Synthesis and hydrogen sorption properties of nanocrystalline Mg _{1.9} M _{0.1} Ni (M=Ti, Zr, V) obtained by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2003, 356-357, 639-643.	5.5	19
198	High-coercivity ultralight transparent magnets. <i>Applied Physics Letters</i> , 2003, 82, 4307-4309.	3.3	30

#	ARTICLE	IF	CITATIONS
199	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
200	Calorimetric and X-Ray Measurements in Ultrafine-Grained Nickel. Materials Science Forum, 2003, 426-432, 4507-4512.	0.3	13
201	Development of Hafnium-Based Bulk Metallic Glasses with large Supercooled Liquid Regions. Journal of Metastable and Nanocrystalline Materials, 2003, 15-16, 115-118.	0.1	4
202	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
203	Role of stacking faults in the structural and magnetic properties of ball-milled cobalt. Physical Review B, 2003, 68, .	3.2	56
204	Magnetic interaction effects on the hard magnetic properties of ball-milled SmCo ₅ +NiO and SmCo ₅ +CoO composites: A \hat{I}^m plot study. Journal of Applied Physics, 2003, 93, 8140-8142.	2.5	5
205	Thermal stability, crystallization kinetics, and grain growth in an amorphous Al ₈₅ Ce ₅ Ni ₈ Co ₂ alloy. Journal of Materials Research, 2002, 17, 2140-2146.	2.6	19
206	Structural and Magnetic Characterization of High-Coercive Ball-Milled Hard Magnetic (SmCo ₅) + Antiferromagnetic (NiO) Composites. Materials Science Forum, 2002, 386-388, 465-472.	0.3	5
207	Influence of the B Content on the Structural and Magnetic Properties of Fe ₆₀ Mn ₁₀ Al _{30-x} B _x Prepared by Mechanical Alloying. Materials Science Forum, 2002, 386-388, 497-502.	0.3	0
208	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
209	Nanocrystallization in Mg ₈₃ Ni ₁₇ xY (x=0, 7.5) amorphous alloys. Journal of Alloys and Compounds, 2002, 345, 123-129.	5.5	27
210	Effect of magnetic interactions on the magnetic properties of ball-milled SmCo ₅ +NiO powders. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 1287-1289.	2.3	6
211	Orientation imaging microscopy of ultrafine-grained nickel. Scripta Materialia, 2002, 46, 575-580.	5.2	217
212	The influence of composition and low temperature annealing on hardness and ductility of rapidly solidified Al ₈₅ Ni ₁₀ Ce alloys. Scripta Materialia, 2002, 47, 31-37.	5.2	34
213	Magnetic and Structural Properties of Mechanically Alloyed Fe _x Mn _{0.70-x} Al _{0.30} (x = 0.40 and 0.45) Alloys. Physica Status Solidi A, 2002, 189, 811-816.	1.7	9
214	Improving the energy product of hard magnetic materials. Physical Review B, 2002, 65, .	3.2	112
215	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
216	Influence of the milling conditions on the amorphization of Fe ₈₂ Nb ₆ B ₁₂ alloy. Journal of Non-Crystalline Solids, 2001, 287, 15-19.	3.1	12

#	ARTICLE	IF	CITATIONS
217	Glass forming ability and crystallisation processes within the Al-Ni-Sm system. Journal of Non-Crystalline Solids, 2001, 289, 214-220.	3.1	31
218	Disordering of B2 Intermetallics by Ball Milling, with Particular Attention of FeAl. Materials Science Forum, 2001, 360-362, 195-202.	0.3	3
219	Nanocrystallisation behaviour of Fe ₈₂ Nb ₆ B ₁₂ alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 296-299.	5.6	4
220	Nanostructured Al ₈₈ Ni ₄ Sm ₈ alloys investigated by transmission electron and field-ion microscopies. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 315-320.	5.6	39
221	Magnetic Phase Diagram of the Fe _x Mn _{0.60-x} Al _{0.40} (0.20 at% X at% 0.60) Alloys Mechanically Alloyed for 48 Hours. Materials Science Forum, 2001, 360-362, 565-570.	0.3	4
222	Oxidation Influence on Crystallisation in Iron-Based Amorphous Alloys. Materials Science Forum, 2001, 360-362, 451-458.	0.3	0
223	Coercivity and squareness enhancement in ball-milled hard magnetic-antiferromagnetic composites. Applied Physics Letters, 2001, 79, 1142-1144.	3.3	103
224	Room temperature magnetic hardening in mechanically milled ferromagnetic-antiferromagnetic composites. Journal of Magnetism and Magnetic Materials, 2000, 219, 53-57.	2.3	30
225	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
226	Hardening and softening of FeAl during milling and annealing. Intermetallics, 2000, 8, 805-813.	3.9	44
227	Evaluation of the Volume Fraction Crystallised during Devitrification of Al-Based Amorphous Alloys. Materials Science Forum, 2000, 343-346, 365-370.	0.3	32
228	Nanocrystallization Process in FeCuNbSiB Based Alloys. Materials Science Forum, 1999, 307, 95-100.	0.3	4
229	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
230	Magnetic investigations on the reordering of a ball milled Fe ₄₀ Al alloy. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 185-187.	2.3	4
231	Correlation between thermal expansion and magnetic behavior in cold deformed Fe ₄₀ Al alloys. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 240-242.	2.3	1
232	Magnetic investigations on the disordering of a ball milled Fe ₄₀ Al alloy. Journal of Magnetism and Magnetic Materials, 1999, 203, 129-131.	2.3	20
233	Room-temperature coercivity enhancement in mechanically alloyed antiferromagnetic-ferromagnetic powders. Applied Physics Letters, 1999, 75, 3177-3179.	3.3	105
234	Structural, mechanical and magnetic properties of nanostructured FeAl alloys during disordering and thermal recovery. Scripta Materialia, 1999, 11, 689-695.	0.5	24

#	ARTICLE	IF	CITATIONS
235	New Gd-Al nanophase obtained by crystallization of Gd ₄ Al ₃ metallic glass. Scripta Materialia, 1999, 12, 609-612.	0.5	3
236	Correlation between microstructure and softmagnetic properties of FeCuNbSiB based alloys. Scripta Materialia, 1999, 12, 677-680.	0.5	8
237	Microstructure and hardness of a nanostructured Fe-40Al at% alloy. Scripta Materialia, 1999, 12, 801-806.	0.5	12
238	Magnetic Hardening Induced by Exchange Coupling in Mechanically Milled Antiferromagnetic - Ferromagnetic Composites. Materials Research Society Symposia Proceedings, 1999, 581, 641.	0.1	3
239	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
240	Magnetic properties of ball milled Fe-40 Al at.% alloys. IEEE Transactions on Magnetics, 1998, 34, 1129-1131.	2.1	36
241	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
242	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
243	Kinetics of Reordering in A Nanograined FeAl Alloy. Materials Science Forum, 1997, 235-238, 415-420.	0.3	16
244	Rapid Solidification and Mechanical Grinding of Cu-Zn Alloys. Materials Science Forum, 1997, 235-238, 571-576.	0.3	1
245	Enthalpies of Formation of L ₁₂ Intermetallics Derived from Heats of Reordering. Physical Review Letters, 1997, 78, 4954-4957.	7.8	4
246	Crystallization Mechanisms of some Se _{100-x} Te _x Glassy Alloys. Journal of Materials Research, 1997, 12, 1069-1075.	2.6	7
247	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
248	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
249	Optical fiber-drawing temperature of fluorogallate glasses. Journal of Materials Research, 1996, 11, 2633-2640.	2.6	5
250	Thermoanalytical Characterization of a Nanograined Fe-40Al Alloy. Materials Science Forum, 1996, 225-227, 395-400.	0.3	7
251	Amorphous to Nanocrystalline Transformation in Fe _{77.5} Cu ₁ Nb ₃ Si _{9.5} B ₉ Alloy. Materials Science Forum, 1996, 225-227, 347-352.		
252	Crystallization mechanisms of a glassy alloy. Journal of Physics Condensed Matter, 1996, 8, 927-940.	1.8	9

#	ARTICLE	IF	CITATIONS
253	Calorimetric Analyses of Mechanically Alloyed Ni ₃ Al-Based Powders (<I>Overview</I>). Materials Transactions, JIM, 1995, 36, 341-350.	0.9	1
254	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
255	Thermal Evolution of Nanocrystalline Intermetallic Materials by DSC Measurements. Materials Science Forum, 1995, 179-181, 463-468.	0.3	0
256	Nanocrystallization of amorphous FeCuNbSiB based alloys. Scripta Materialia, 1995, 6, 461-464.	0.5	10
257	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
258	Preparation of Fe-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
259	Differential scanning calorimetry study of structural relaxation of Ge-doped Se ₈₅ Te ₁₅ glasses. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1994, 22, 181-190.	3.5	5
260	Thermodynamic properties of nanocrystalline Ni ₃ Al-based alloys prepared by mechanical attrition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 168, 161-164.	5.6	12
261	Intergranular microstructure-coercive field relationship in Nd ₁₆ Fe ₇₆ B ₈ alloys. Journal of Magnetism and Magnetic Materials, 1993, 119, 289-293.	2.3	3
262	Improved fluoride glasses for 1.3 μm optical amplifiers. Journal of Non-Crystalline Solids, 1993, 161, 257-261.	3.1	24
263	Peculiarities accompanying the enthalpy recovery during structural relaxation of chalcogenic glasses. Journal of Non-Crystalline Solids, 1993, 163, 177-184.	3.1	4
264	Kinetics of reordering of Ni ₃ Al disordered by ball-milling. Acta Metallurgica Et Materialia, 1993, 41, 1065-1073.	1.8	48
265	Low phonon-energy glasses for efficient 1.3 μm optical fibre amplifiers. Electronics Letters, 1993, 29, 237.	1.0	101
266	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
267	Preparation of Iron-Metalloid Amorphous Powders by Mechanical Alloying. Materials Science Forum, 1992, 88-90, 275-282.	0.3	10
268	A new temperature versus heating rate transformation (T-HR-T) diagram: Application to study the crystallization behaviour of Fe _{7.5} Co ₁₅ Nb _{1.5} B ₁₆ metallic glass. Acta Metallurgica Et Materialia, 1992, 40, 37-42.	1.8	18
269	Coercivity through controlled crystallization in melt-spun Nd-Fe-B amorphous alloys. Journal of Alloys and Compounds, 1992, 182, 211-221.	5.5	13
270	Determination of T-T and T-HR-T curves from non-isothermal crystallization kinetic experiments. Thermochemica Acta, 1992, 203, 379-389.	2.7	19

#	ARTICLE	IF	CITATIONS
271	Hysteretic behaviour of melt-spun Nd ₁₃ Fe ₇₉ B ₈ after different crystallization treatments. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1141-1142.	2.3	4
272	Enthalpy recovery in Se rich Ge–Se glasses during isothermal annealing and continuous heating. Journal of Non-Crystalline Solids, 1991, 131-133, 479-482.	3.1	10
273	Effect of the quenching conditions on the crystallization kinetics and morphology of Fe ₆₅ Co ₁₈ B ₁₆ Si ₁ . Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 133, 807-810.	5.6	8
274	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
275	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
276	Effect of the quenching conditions on the crystallization kinetics and morphology of Fe ₆₅ Co ₁₈ B ₁₆ Si ₁ . , 1991, , 807-810.		0
277	Magnetization versus heat treatment in rapidly solidified NdFeB alloys. IEEE Transactions on Magnetics, 1990, 26, 2613-2615.	2.1	3
278	Crystallization behavior of some melt spun Nd–Fe–B alloys. Journal of Materials Research, 1990, 5, 1201-1206.	2.6	23
279	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
280	Glass forming ability and crystallization kinetics of alloys in the GeSe ₂ –GeTe–Sb ₂ Te ₃ system. Journal of Non-Crystalline Solids, 1989, 111, 113-119.	3.1	5
281	The crystallization process of Ni ₇₈ Si ₈ B ₁₄ amorphous alloys. Materials Science and Engineering, 1988, 97, 333-336.	0.1	11
282	Thermal behaviour and corrosion characteristics of T ₇₈ Si ₈ B ₁₄ metallic glasses (T=Fe, Ni). Journal of Materials Science Letters, 1988, 7, 1336-1338.	0.5	0
283	Glass formation and crystallization in the GeSe ₂ -GeTe-Sb ₂ Te ₃ system. Thermochemica Acta, 1988, 133, 287-292.	2.7	2
284	Measurements of structural relaxation in amorphous Fe ₄₀ Ni ₄₀ B ₂₀ by differential scanning calorimetry. Materials Science and Engineering, 1988, 97, 533-536.	0.1	14
285	Relaxation processes below the glass transition in a GeSe ₂ –GeTe–Sb ₂ Te ₃ alloy. Journal of Non-Crystalline Solids, 1988, 104, 283-290.	3.1	16
286	Direct evidence of two different relaxation processes induced by heat treatment on Fe ₄₀ Ni ₄₀ B ₂₀ glassy ribbons. Journal of Physics F: Metal Physics, 1988, 18, 2669-2681.	1.6	7
287	The Crystallization Process of Ni ₇₈ Si ₈ B ₁₄ Amorphous Alloys. , 1988, , 333-336.		0
288	Thermodynamic and thermokinetic characteristics of the glass transition in a GeSe ₂ –GeTe–Sb ₂ Te ₃ alloy. Journal of Non-Crystalline Solids, 1986, 86, 311-321.	3.1	13

#	ARTICLE	IF	CITATIONS
289	Thermodynamic aspects of glass-formation and crystallization in the GeSe ₂ -S ₂ Te ₃ system. Fluid Phase Equilibria, 1985, 20, 341-346.	2.5	7
290	Thermodynamic and kinetic characterization of vitreous eutectic GeSe ₂ -Sb ₂ Te ₃ alloy. Thermochimica Acta, 1985, 85, 175-178.	2.7	6
291	Kinetics of the thermal dehydration of trans-fluoroaquo bis(ethylenediamine)chromium(III) tetracyanometallate(II) [metal(II) = Ni(II), Pd(II) and Pt(II)]. Thermochimica Acta, 1984, 80, 103-113.	2.7	8
292	Glass-to-crystalline transformation in rapidly quenched Fe ₇₈ B ₉ Si ₁₃ ferromagnetic alloy. Journal of Non-Crystalline Solids, 1984, 69, 105-115.	3.1	12
293	Thermochemical parameters of the thermal dehydration of trans-[CrF(H ₂ O)(1,3-diaminopropane) ₂][M(CN) ₄] (M = Pd, Pt). Thermochimica Acta, 1983, 64, 237-246.	2.7	12
294	Kinetic study of isothermal and continuous heating crystallization in GeSe ₂ -GeTe ₂ -Sb ₂ Te ₃ alloy glasses. Journal of Non-Crystalline Solids, 1983, 58, 209-217.	3.1	136
295	Thermochemical parameters of the thermal dehydration of trans[CrF(H ₂ O)(1,3-diaminopropane) ₂][Ni(CN) ₄]. Thermochimica Acta, 1982, 56, 183-191.	2.7	18
296	Thermal studies on the anation and decomposition of trans-fluoroaquo bis(ethylenediamine) and trans-fluoroaquo bis(propylenediamine) dithionate. Thermochimica Acta, 1981, 47, 271-276.	2.7	6
297	CaractÃ©risation par A. T. D. de verres du systÃ©me Se-Te-Ge _{0,5} Sb _{0,5} . Revue De Physique AppliquÃ©e, 1977, 12, 681-685.	0.4	3
298	Kinetics of Ordering in Ni ₃ Al Based Alloys Disordered by Ball Milling. Materials Science Forum, 0, 88-90, 497-504.	0.3	13
299	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