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	Exchange bias in nanostructures. Physics Reports, 2005, 422, 65-117.	25.6	1,722
2	Experimental parameters influencing grain refinement and microstructural evolution during high-pressure torsion. Acta Materialia, 2003, 51, 753-765.	7.9	717
3	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
4	Cubic versus Spherical Magnetic Nanoparticles: The Role of Surface Anisotropy. Journal of the American Chemical Society, 2008, 130, 13234-13239.	13.7	226
5	Orientation imaging microscopy of ultrafine-grained nickel. Scripta Materialia, 2002, 46, 575-580.	5.2	217
6	The microstructural characteristics of ultrafine-grained nickel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 391, 377-389.	5.6	185
7	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. Nature Communications, 2013, 4, 2960.	12.8	160
8	Mgâ€“Niâ€“RE nanocrystalline alloys for hydrogen storage. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 794-799.	5.6	139
9	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
10	Improving the energy product of hard magnetic materials. Physical Review B, 2002, 65, .	3.2	112
11	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
12	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
13	Room-temperature coercivity enhancement in mechanically alloyed antiferromagnetic-ferromagnetic powders. Applied Physics Letters, 1999, 75, 3177-3179.	3.3	105
14	Coercivity and squareness enhancement in ball-milled hard magneticâ€“antiferromagnetic composites. Applied Physics Letters, 2001, 79, 1142-1144.	3.3	103
15	Yielding and intrinsic plasticity of Tiâ€“Zrâ€“Niâ€“Cuâ€“Be bulk metallic glass. International Journal of Plasticity, 2009, 25, 1540-1559.	8.8	103
16	Exploiting Length Scales of Exchangeâ€Bias Systems to Fully Tailor Doubleâ€Shifted Hysteresis Loops. Advanced Materials, 2005, 17, 2978-2983.	21.0	102
17	Low phonon-energy glasses for efficient 1.3 Î¼m optical fibre amplifiers. Electronics Letters, 1993, 29, 237.	1.0	101
18	Structural relaxation and rejuvenation in a metallic glass induced by shot-peening. Philosophical Magazine Letters, 2009, 89, 831-840.	1.2	98

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19	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
20	Morphology, structure and magnetic properties of cobaltâ€“nickel films obtained from acidic electrolytes containing glycine. Electrochimica Acta, 2011, 56, 1399-1408.	5.2	93
21	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
22	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
23	Dynamic softening and indentation size effect in a Zr-based bulk glass-forming alloy. Scripta Materialia, 2007, 56, 605-608.	5.2	88
24	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
25	Magnetic Proximity Effect Features in Antiferromagnetic/Ferrimagnetic Core-Shell Nanoparticles. Physical Review Letters, 2009, 102, 247201.	7.8	85
26	Ni-, Pt- and (Ni/Pt)-doped TiO2 nanophotocatalysts: A smart approach for sustainable degradation of Rhodamine B dye. Applied Catalysis B: Environmental, 2016, 181, 270-278.	20.2	85
27	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
28	Electrodeposition of magnetic, superhydrophobic, non-stick, two-phase Cuâ€“Ni foam films and their enhanced performance for hydrogen evolution reaction in alkaline water media. Nanoscale, 2014, 6, 12490-12499.	5.6	84
29	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
30	Cold-consolidation of ball-milled Fe-based amorphous ribbons by high pressure torsion. Scripta Materialia, 2004, 50, 1221-1225.	5.2	81
31	Synthesis of compositionally graded nanocast NiO/NiCo2O4/Co3O4 mesoporous composites with tunable magnetic properties. Journal of Materials Chemistry, 2010, 20, 7021.	6.7	81
32	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
33	Mesoporous NiCo₂O₄ Spinel: Influence of Calcination Temperature over Phase Purity and Thermal Stability. Crystal Growth and Design, 2009, 9, 4814-4821.	3.0	78
34	Exchange bias in ferromagnetic nanoparticles embedded in an antiferromagnetic matrix. International Journal of Nanotechnology, 2005, 2, 23.	0.2	77
35	Microstructural characterization of ultrafine-grained nickel. Physica Status Solidi A, 2003, 198, 263-271.	1.7	76
36	Strongly exchange coupled inverse ferrimagnetic soft/hard, MnxFe3â^'xO4/FexMn3â^'xO4, core/shell heterostructured nanoparticles. Nanoscale, 2012, 4, 5138.	5.6	76

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37	Origin of the large dispersion of magnetic properties in nanostructured oxides: Fe_xO/Fe₃O₄nanoparticles as a case study. Nanoscale, 2015, 7, 3002-3015.	5.6	76
38	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
39	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
40	Microstructural aspects of the hcp-fcc allotropic phase transformation induced in cobalt by ball milling. Philosophical Magazine, 2003, 83, 439-455.	1.6	69
41	Hydrogen desorption mechanism of 2NaBH4+MgH2 composite prepared by high-energy ball milling. Scripta Materialia, 2009, 60, 1129-1132.	5.2	69
42	Fracture surface morphology of compressed bulk metallic glass-matrix-composites and bulk metallic glass. Intermetallics, 2006, 14, 982-986.	3.9	66
43	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
44	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
45	Exchange bias effects in Fe nanoparticles embedded in an antiferromagnetic Cr2O3matrix. Nanotechnology, 2004, 15, S211-S214.	2.6	62
46	Volume expansion contribution to the magnetism of atomically disordered intermetallic alloys. Physical Review B, 2006, 74, .	3.2	59
47	Effect of relaxation and primary nanocrystallization on the mechanical properties of Cu60Zr22Ti18 bulk metallic glass. Intermetallics, 2005, 13, 1214-1219.	3.9	58
48	Effect of Transition Metal Fluorides on the Sorption Properties and Reversible Formation of Ca(BH₄)₂. Journal of Physical Chemistry C, 2011, 115, 2497-2504.	3.1	58
49	Sorption properties of NaBH4/MH2 (M=Mg, Ti) powder systems. International Journal of Hydrogen Energy, 2010, 35, 5434-5441.	7.1	57
50	Role of stacking faults in the structural and magnetic properties of ball-milled cobalt. Physical Review B, 2003, 68, .	3.2	56
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	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
53	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
54	Structure and Thermodynamic Properties of the NaMgH₃ Perovskite: A Comprehensive Study. Chemistry of Materials, 2011, 23, 2317-2326.	6.7	54

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55	Pressure Effect on the 2NaH + MgB₂ Hydrogen Absorption Reaction. Journal of Physical Chemistry C, 2010, 114, 21816-21823.	3.1	53
56	Imprinting Vortices into Antiferromagnets. Physical Review Letters, 2006, 97, 067201.	7.8	51
57	Helical and Tubular Lipid Microstructures that are Electrolessâ€Coated with CoNiReP for Wireless Magnetic Manipulation. Small, 2012, 8, 1498-1502.	10.0	51
58	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
59	Thermodynamic and Kinetic Investigations on Pure and Doped NaBH₄â^'MgH₂ System. Journal of Physical Chemistry C, 2011, 115, 3151-3162.	3.1	50
60	Improvement to the Corrosion Resistance of Ti-Based Implants Using Hydrothermally Synthesized Nanostructured Anatase Coatings. Materials, 2014, 7, 180-194.	2.9	50
61	Can Na2[B12H12] be a decomposition product of NaBH4?. Physical Chemistry Chemical Physics, 2010, 12, 15093.	2.8	49
62	Kinetics of reordering of Ni3Al disordered by ball-milling. Acta Metallurgica Et Materialia, 1993, 41, 1065-1073.	1.8	48
63	Isothermal tuning of exchange bias using pulsed fields. Applied Physics Letters, 2003, 82, 3044-3046.	3.3	48
64	Plastic Deformation and Mechanical Softening of Pd40Cu30Ni10P20 Bulk Metallic Glass During Nanoindentation. Journal of Materials Research, 2005, 20, 2719-2725.	2.6	48
65	Mechanical properties of a two-phase amorphous Niâ€“Nbâ€“Y alloy studied by nanoindentation. Scripta Materialia, 2007, 56, 85-88.	5.2	46
66	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
67	Direct evidence for an interdiffused intermediate layer in bi-magnetic coreâ€“shell nanoparticles. Nanoscale, 2014, 6, 11911-11920.	5.6	46
68	Facile in Situ Synthesis of BiOCl Nanoplates Stacked to Highly Porous TiO₂: A Synergistic Combination for Environmental Remediation. ACS Applied Materials & Interfaces, 2014, 6, 13994-14000.	8.0	46
69	Effect of Nb addition on microstructure evolution and nanomechanical properties of a glass-forming Tiâ€“Zrâ€“Si alloy. Intermetallics, 2014, 46, 156-163.	3.9	45
70	Hardening and softening of FeAl during milling and annealing. Intermetallics, 2000, 8, 805-813.	3.9	44
71	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
72	Bulk amorphous FeCrMoGaPCB: Preparation and magnetic properties. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1480-1482.	2.3	43

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73	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
74	Enhanced Coercivity in Co-Rich Near-Stoichiometric CoxFe3-xO4+Î´ Nanoparticles Prepared in Large Batches. Chemistry of Materials, 2007, 19, 4957-4963.	6.7	43
75	Experimental Evidence of Ca[B12H12] Formation During Decomposition of a Ca(BH4)2 + MgH2 Based Reactive Hydride Composite. Journal of Physical Chemistry C, 2011, 115, 18010-18014.	3.1	43
76	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
77	Enhanced mechanical properties in a Zr-based metallic glass caused by deformation-induced nanocrystallization. Scripta Materialia, 2010, 62, 13-16.	5.2	41
78	Voltageâ€Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energyâ€Efficient Magnetic Actuation. Advanced Functional Materials, 2017, 27, 1701904.	14.9	41
79	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
80	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
81	Nanostructured Al88Ni4Sm8 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
82	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
83	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
84	Nanoindentation response of Cuâ€“Ti based metallic glasses: Comparison between as-cast, relaxed and devitrified states. Journal of Non-Crystalline Solids, 2015, 425, 103-109.	3.1	38
85	Anelastic deformation of a Pd40Cu30Ni10P20 bulk metallic glass during nanoindentation. Applied Physics Letters, 2006, 88, 171911.	3.3	37
86	Glass forming ability of the Alâ€“Ceâ€“Ni system. Journal of Non-Crystalline Solids, 2008, 354, 4874-4877.	3.1	37
87	Activation of the reactive hydride composite 2NaBH4+MgH2. Scripta Materialia, 2011, 64, 1035-1038.	5.2	37
88	EEL spectroscopic tomography: Towards a new dimension in nanomaterials analysis. Ultramicroscopy, 2012, 122, 12-18.	1.9	37
89	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
90	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

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91	Magnetic properties of ball milled Fe-40 Al at.% alloys. IEEE Transactions on Magnetics, 1998, 34, 1129-1131.	2.1	36
92	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
93	Microstructural evolution during decomposition and crystallization of the Cu60Zr20Ti20 amorphous alloy. Journal of Materials Research, 2004, 19, 505-512.	2.6	36
94	Distinguishing the core from the shell in MnOx/MnOy and FeOx/MnOx core/shell nanoparticles through quantitative electron energy loss spectroscopy (EELS) analysis. Micron, 2012, 43, 30-36.	2.2	36
95	Resolving Material-Specific Structures within Fe₃O₄|Î³-Mn₂O₃ Core|Shell Nanoparticles Using Anomalous Small-Angle X-ray Scattering. ACS Nano, 2013, 7, 921-931.	14.6	36
96	Ca(BH₄)₂ + MgH₂: Desorption Reaction and Role of Mg on Its Reversibility. Journal of Physical Chemistry C, 2013, 117, 3846-3852.	3.1	35
97	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
98	Crystallization of a Alâ€“4Niâ€“6Ce glass and its influence on mechanical properties. Acta Materialia, 2003, 51, 1067-1077.	7.9	33
99	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
100	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
101	Evaluation of the Volume Fraction Crystallised during Devitrification of Al-Based Amorphous Alloys. Materials Science Forum, 2000, 343-346, 365-370.	0.3	32
102	Glass forming ability and crystallisation processes within the Alâ€“Niâ€“Sm system. Journal of Non-Crystalline Solids, 2001, 289, 214-220.	3.1	31
103	Ultraporous Single Phase Iron Oxideâ€'Silica Nanostructured Aerogels from Ferrous Precursors. Langmuir, 2004, 20, 1425-1429.	3.5	31
104	Cold Consolidation of Metalâ€“Ceramic Nanocomposite Powders with Large Ceramic Fractions. Advanced Functional Materials, 2008, 18, 3293-3298.	14.9	31
105	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
106	Mechanical and corrosion behaviour of as-cast and annealed Zr60Cu20Al10Fe5Ti5 bulk metallic glass. Intermetallics, 2012, 28, 149-155.	3.9	31
107	Room temperature magnetic hardening in mechanically milled ferromagneticâ€“antiferromagnetic composites. Journal of Magnetism and Magnetic Materials, 2000, 219, 53-57.	2.3	30
108	High-coercivity ultralight transparent magnets. Applied Physics Letters, 2003, 82, 4307-4309.	3.3	30

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109	Hydriding/dehydriding properties of nanocrystalline Mg87Ni3Al3M7 (M=Ti, Mn, Ce, La) alloys prepared by ball milling. Journal of Alloys and Compounds, 2005, 398, 139-144.	5.5	30
110	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
111	Novel Tiâ€“Zrâ€“Hfâ€“Fe Nanostructured Alloy for Biomedical Applications. Materials, 2013, 6, 4930-4945.	2.9	30
112	Selective generation of local ferromagnetism in austenitic stainless steel using nanoindentation. Applied Physics Letters, 2006, 89, 032509.	3.3	28
113	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
114	Nanocrystallization in Mg83Ni17â^'xYx (x=0, 7.5) amorphous alloys. Journal of Alloys and Compounds, 2002, 345, 123-129.	5.5	27
115	Structurally and mechanically tunable molybdenum oxide films and patterned submicrometer structures by electrodeposition. Electrochimica Acta, 2015, 173, 705-714.	5.2	27
116	Two-fold origin of the deformation-induced ferromagnetism in bulk Fe₆₀Al₄₀(at.%) alloys. New Journal of Physics, 2008, 10, 103030.	2.9	25
117	Unconventional elastic properties, deformation behavior and fracture characteristics of newly developed rare earth bulk metallic glasses. Intermetallics, 2009, 17, 1090-1097.	3.9	25
118	Chemical State, Distribution, and Role of Ti- and Nb-Based Additives on the Ca(BH₄)₂ System. Journal of Physical Chemistry C, 2013, 117, 4394-4403.	3.1	25
119	Improved fluoride glasses for 1.3 Î¼m optical amplifiers. Journal of Non-Crystalline Solids, 1993, 161, 257-261.	3.1	24
120	Structural, mechanical and magnetic properties of nanostructured FeAl alloys during disordering and thermal recovery. Scripta Materialia, 1999, 11, 689-695.	0.5	24
121	Thermal characterization of Cu60ZrxTi40â^'x metallic glasses (x=15, 20, 22, 25, 30). Intermetallics, 2004, 12, 1063-1067.	3.9	24
122	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
123	Crystallization behavior of some melt spun Ndâ€“Feâ€“B alloys. Journal of Materials Research, 1990, 5, 1201-1206.	2.6	23
124	Evaluation of the anatase/rutile phase composition influence on the photocatalytic performances of mesoporous TiO2 powders. International Journal of Hydrogen Energy, 2015, 40, 14483-14491.	7.1	23
125	Designing new biocompatible glassâ€forming Ti_{75â€}_xZr₁₀Nb_xSi₁₅ (xâ€‰=â€‰0, 15) alloys: corrosion, passivity, and apatite formation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 27-38.	3.4	23
126	Tailoring Staircase-like Hysteresis Loops in Electrodeposited Trisegmented Magnetic Nanowires: a Strategy toward Minimization of Interwire Interactions. ACS Applied Materials & Interfaces, 2016, 8, 4109-4117.	8.0	23

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127	Controlling magnetic vortices through exchange bias. Applied Physics Letters, 2006, 88, 042502.	3.3	22
128	Micelleâ€Assisted Electrodeposition of Mesoporous Feâ€“Pt Smooth Thin Films and their Electrocatalytic Activity towards the Hydrogen Evolution Reaction. ChemSusChem, 2018, 11, 367-375.	6.8	22
129	Stability and crystallization of Feâ€“Coâ€“Nbâ€“B amorphous alloys. Journal of Non-Crystalline Solids, 2004, 333, 320-326.	3.1	21
130	The effect of saccharine on the localized electrochemical deposition of Cu-rich Cuâ€“Ni microcolumns. Electrochemistry Communications, 2011, 13, 973-976.	4.7	21
131	Hydrogen storage in 2NaBH4+MgH2 mixtures: Destabilization by additives and nanoconfinement. Journal of Alloys and Compounds, 2012, 536, S236-S240.	5.5	21
132	NaAlH4 confined in ordered mesoporous carbon. International Journal of Hydrogen Energy, 2013, 38, 8829-8837.	7.1	21
133	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
134	Direct hydriding of Mg87Al7Ni3Mn3 by reactive mechanical milling in hydrogen atmosphere and influence of particle size on the dehydriding reaction. Journal of Alloys and Compounds, 2005, 388, 98-103.	5.5	20
135	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
136	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
137	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
138	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
139	Role of aluminum chloride on the reversible hydrogen storageÂproperties of the Liâ€“Nâ€“H system. International Journal of Hydrogen Energy, 2015, 40, 13506-13517.	7.1	20
140	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
141	Thermal stability, crystallization kinetics, and grain growth in an amorphous Al85Ce5Ni8Co2 alloy. Journal of Materials Research, 2002, 17, 2140-2146.	2.6	19
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	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
144	Microstructural characterization and hydrogenation study of extruded MgFe alloy. Journal of Alloys and Compounds, 2010, 504, S299-S301.	5.5	19

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145	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
146	Structural and magnetic characterization of batch-fabricated nickel encapsulated multi-walled carbon nanotubes. Nanotechnology, 2011, 22, 275713.	2.6	19
147	Mechanochemical synthesis of NaBH4 starting from NaHâ€“MgB2 reactive hydride composite system. International Journal of Hydrogen Energy, 2013, 38, 2363-2369.	7.1	19
148	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
149	In vitro biocompatibility assessment of Ti40Cu38Zr10Pd12 bulk metallic glass. Journal of Materials Science: Materials in Medicine, 2014, 25, 163-172.	3.6	19
150	Evaporation-induced self-assembly synthesis of Ni-doped mesoporous SnO‹sub›2‹/sub› thin films with tunable room temperature magnetic properties. Journal of Materials Chemistry C, 2017, 5, 5517-5527.	5.5	19
151	Effect of Surface Modifications of Ti40Zr10Cu38Pd12 Bulk Metallic Glass and Ti-6Al-4V Alloy on Human Osteoblasts In Vitro Biocompatibility. PLoS ONE, 2016, 11, e0156644.	2.5	19
152	Thermochemical parameters of the thermal dehydra- tion of trans[Crf(H2O)(1,3-diaminopropane)2][Ni(CN)4]. Thermochimica Acta, 1982, 56, 183-191.	2.7	18
153	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
154	Outâ€ofâ€Plane Magnetic Patterning Based on Indentationâ€Induced Nanocrystallization of a Metallic Glass. Small, 2010, 6, 1543-1549.	10.0	18
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