

Maria Dolores BarÃ³

List of Publications by Year in descending order

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299
papers

11,649
citations

31949

53
h-index

38368

95
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301
all docs

301
docs citations

301
times ranked

10110
citing authors

#	ARTICLE	IF	CITATIONS
1	Exchange bias in nanostructures. <i>Physics Reports</i> , 2005, 422, 65-117.	10.3	1,722
2	Experimental parameters influencing grain refinement and microstructural evolution during high-pressure torsion. <i>Acta Materialia</i> , 2003, 51, 753-765.	3.8	717
3	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.	6.6	261
4	Cubic versus Spherical Magnetic Nanoparticles: The Role of Surface Anisotropy. <i>Journal of the American Chemical Society</i> , 2008, 130, 13234-13239.	6.6	226
5	Orientation imaging microscopy of ultrafine-grained nickel. <i>Scripta Materialia</i> , 2002, 46, 575-580.	2.6	217
6	The microstructural characteristics of ultrafine-grained nickel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 391, 377-389.	2.6	185
7	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. <i>Nature Communications</i> , 2013, 4, 2960.	5.8	160
8	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.	2.6	139
9	Kinetic study of isothermal and continuous heating crystallization in GeSe ₂ -GeTe ₂ -Sb ₂ Te ₃ alloy glasses. <i>Journal of Non-Crystalline Solids</i> , 1983, 58, 209-217.	1.5	136
10	Improving the energy product of hard magnetic materials. <i>Physical Review B</i> , 2002, 65, .	1.1	112
11	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.	3.8	106
12	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.	6.6	106
13	Room-temperature coercivity enhancement in mechanically alloyed antiferromagnetic-ferromagnetic powders. <i>Applied Physics Letters</i> , 1999, 75, 3177-3179.	1.5	105
14	Coercivity and squareness enhancement in ball-milled hard magnetic-antiferromagnetic composites. <i>Applied Physics Letters</i> , 2001, 79, 1142-1144.	1.5	103
15	Yielding and intrinsic plasticity of Ti-Zr-Ni-Cu-Be bulk metallic glass. <i>International Journal of Plasticity</i> , 2009, 25, 1540-1559.	4.1	103
16	Exploiting Length Scales of Exchange-Bias Systems to Fully Tailor Double-Shifted Hysteresis Loops. <i>Advanced Materials</i> , 2005, 17, 2978-2983.	11.1	102
17	Low phonon-energy glasses for efficient 1.3 μ m optical fibre amplifiers. <i>Electronics Letters</i> , 1993, 29, 237.	0.5	101
18	Structural relaxation and rejuvenation in a metallic glass induced by shot-peening. <i>Philosophical Magazine Letters</i> , 2009, 89, 831-840.	0.5	98

#	ARTICLE	IF	CITATIONS
19	Enhanced mechanical properties and in vitro corrosion behavior of amorphous and devitrified Ti ₄₀ Zr ₁₀ Cu ₃₈ Pd ₁₂ metallic glass. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 1709-1717.	1.5	97
20	Morphology, structure and magnetic properties of cobalt-nickel films obtained from acidic electrolytes containing glycine. <i>Electrochimica Acta</i> , 2011, 56, 1399-1408.	2.6	93
21	Nanocrystalline Electroplated Cu-Ni: Metallic Thin Films with Enhanced Mechanical Properties and Tunable Magnetic Behavior. <i>Advanced Functional Materials</i> , 2010, 20, 983-991.	7.8	92
22	Nanostructured β -phase Ti-31.0Fe-9.0Sn and sub- μ m structured Ti-39.3Nb-13.3Zr-10.7Ta alloys for biomedical applications: Microstructure benefits on the mechanical and corrosion performances. <i>Materials Science and Engineering C</i> , 2012, 32, 2418-2425.	3.8	90
23	Dynamic softening and indentation size effect in a Zr-based bulk glass-forming alloy. <i>Scripta Materialia</i> , 2007, 56, 605-608.	2.6	88
24	Enhanced mechanical properties due to structural changes induced by devitrification in Fe-Co-Ba-Si-Nb bulk metallic glass. <i>Acta Materialia</i> , 2010, 58, 6256-6266.	3.8	88
25	Magnetic Proximity Effect Features in Antiferromagnetic/Ferrimagnetic Core-Shell Nanoparticles. <i>Physical Review Letters</i> , 2009, 102, 247201.	2.9	85
26	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.	10.8	85
27	Microstructural and kinetic aspects of the transformations induced in a FeAl alloy by ball-milling and thermal treatments. <i>Acta Materialia</i> , 1998, 46, 3305-3316.	3.8	84
28	Electrodeposition of magnetic, superhydrophobic, non-stick, two-phase Cu-Ni foam films and their enhanced performance for hydrogen evolution reaction in alkaline water media. <i>Nanoscale</i> , 2014, 6, 12490-12499.	2.8	84
29	Influence of magnetization on the reordering of nanostructured ball-milled Fe-40 at. % Al powders. <i>Physical Review B</i> , 1998, 58, R11864-R11867.	1.1	82
30	Cold-consolidation of ball-milled Fe-based amorphous ribbons by high pressure torsion. <i>Scripta Materialia</i> , 2004, 50, 1221-1225.	2.6	81
31	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
32	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.	3.8	81
33	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.	1.4	78
34	Exchange bias in ferromagnetic nanoparticles embedded in an antiferromagnetic matrix. <i>International Journal of Nanotechnology</i> , 2005, 2, 23.	0.1	77
35	Microstructural characterization of ultrafine-grained nickel. <i>Physica Status Solidi A</i> , 2003, 198, 263-271.	1.7	76
36	Strongly exchange coupled inverse ferrimagnetic soft/hard, Mn _x Fe _{3-x} O ₄ /FexMn _{3-x} O ₄ , core/shell heterostructured nanoparticles. <i>Nanoscale</i> , 2012, 4, 5138.	2.8	76

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37	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.	2.8	76
38	Improved mechanical performance and delayed corrosion phenomena in biodegradable Mg–Zn–Ca alloys through Pd-alloying. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 6, 53-62.	1.5	72
39	Direct Magnetic Patterning due to the Generation of Ferromagnetism by Selective Ion Irradiation of Paramagnetic FeAl Alloys. <i>Small</i> , 2009, 5, 229-234.	5.2	71
40	Microstructural aspects of the hcp-fcc allotropic phase transformation induced in cobalt by ball milling. <i>Philosophical Magazine</i> , 2003, 83, 439-455.	0.7	69
41	Hydrogen desorption mechanism of 2NaBH ₄ +MgH ₂ composite prepared by high-energy ball milling. <i>Scripta Materialia</i> , 2009, 60, 1129-1132.	2.6	69
42	Fracture surface morphology of compressed bulk metallic glass-matrix-composites and bulk metallic glass. <i>Intermetallics</i> , 2006, 14, 982-986.	1.8	66
43	Synthesis of amorphous Mg(BH ₄) ₂ from MgB ₂ and H ₂ at room temperature. <i>Journal of Alloys and Compounds</i> , 2010, 508, 212-215.	2.8	66
44	Grain Boundary Segregation and Interdiffusion Effects in Nickel–Copper Alloys: An Effective Means to Improve the Thermal Stability of Nanocrystalline Nickel. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2265-2274.	4.0	63
45	Exchange bias effects in Fe nanoparticles embedded in an antiferromagnetic Cr ₂ O ₃ matrix. <i>Nanotechnology</i> , 2004, 15, S211-S214.	1.3	62
46	Volume expansion contribution to the magnetism of atomically disordered intermetallic alloys. <i>Physical Review B</i> , 2006, 74, .	1.1	59
47	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.	1.8	58
48	Effect of Transition Metal Fluorides on the Sorption Properties and Reversible Formation of Ca(BH ₄) ₂ . <i>Journal of Physical Chemistry C</i> , 2011, 115, 2497-2504.	1.5	58
49	Sorption properties of NaBH ₄ /MH ₂ (M=Mg, Ti) powder systems. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5434-5441.	3.8	57
50	Role of stacking faults in the structural and magnetic properties of ball-milled cobalt. <i>Physical Review B</i> , 2003, 68, .	1.1	56
51	A comparison between fine-grained and nanocrystalline electrodeposited Cu–Ni films. Insights on mechanical and corrosion performance. <i>Surface and Coatings Technology</i> , 2011, 205, 5285-5293.	2.2	56
52	Two-, Three-, and Four-Component Magnetic Multilayer Onion Nanoparticles Based on Iron Oxides and Manganese Oxides. <i>Journal of the American Chemical Society</i> , 2011, 133, 16738-16741.	6.6	55
53	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.	2.6	54
54	Structure and Thermodynamic Properties of the NaMgH ₃ Perovskite: A Comprehensive Study. <i>Chemistry of Materials</i> , 2011, 23, 2317-2326.	3.2	54

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55	Pressure Effect on the $2\text{NaH} + \text{MgB}_{2\text{H}}$ Hydrogen Absorption Reaction. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21816-21823.	1.5	53
56	Imprinting Vortices into Antiferromagnets. <i>Physical Review Letters</i> , 2006, 97, 067201.	2.9	51
57	Helical and Tubular Lipid Microstructures that are Electroless-Coated with CoNiReP for Wireless Magnetic Manipulation. <i>Small</i> , 2012, 8, 1498-1502.	5.2	51
58	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.	2.6	50
59	Thermodynamic and Kinetic Investigations on Pure and Doped $\text{NaBH}_4\text{-MgH}_2$ System. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3151-3162.	1.5	50
60	Improvement to the Corrosion Resistance of Ti-Based Implants Using Hydrothermally Synthesized Nanostructured Anatase Coatings. <i>Materials</i> , 2014, 7, 180-194.	1.3	50
61	Can $\text{Na}_2[\text{B}_{12}\text{H}_{12}]$ be a decomposition product of NaBH_4 ?. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15093.	1.3	49
62	Kinetics of reordering of Ni_3Al disordered by ball-milling. <i>Acta Metallurgica Et Materialia</i> , 1993, 41, 1065-1073.	1.9	48
63	Isothermal tuning of exchange bias using pulsed fields. <i>Applied Physics Letters</i> , 2003, 82, 3044-3046.	1.5	48
64	Plastic Deformation and Mechanical Softening of $\text{Pd}_{40}\text{Cu}_{30}\text{Ni}_{10}\text{P}_{20}$ Bulk Metallic Glass During Nanoindentation. <i>Journal of Materials Research</i> , 2005, 20, 2719-2725.	1.2	48
65	Mechanical properties of a two-phase amorphous Ni-Nb-Y alloy studied by nanoindentation. <i>Scripta Materialia</i> , 2007, 56, 85-88.	2.6	46
66	Experimental Evidence of $\text{Na}_2[\text{B}_{12}\text{H}_{12}]$ and Na Formation in the Desorption Pathway of the $2\text{NaBH}_4 + \text{MgH}_2$ System. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16664-16671.	1.5	46
67	Direct evidence for an interdiffused intermediate layer in bi-magnetic core-shell nanoparticles. <i>Nanoscale</i> , 2014, 6, 11911-11920.	2.8	46
68	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.	4.0	46
69	Effect of Nb addition on microstructure evolution and nanomechanical properties of a glass-forming Ti-Zr-Si alloy. <i>Intermetallics</i> , 2014, 46, 156-163.	1.8	45
70	Hardening and softening of FeAl during milling and annealing. <i>Intermetallics</i> , 2000, 8, 805-813.	1.8	44
71	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.	1.5	44
72	Bulk amorphous FeCrMoGaPCB : Preparation and magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 1480-1482.	1.0	43

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73	Reversible post-synthesis tuning of the superparamagnetic blocking temperature of $\gamma\text{-Fe}_2\text{O}_3$ nanoparticles by adsorption and desorption of Co(II) ions. <i>Journal of Materials Chemistry</i> , 2007, 17, 322-328.	6.7	43
74	Enhanced Coercivity in Co-Rich Near-Stoichiometric $\text{Co}_x\text{Fe}_{3-x}\text{O}_4$ Nanoparticles Prepared in Large Batches. <i>Chemistry of Materials</i> , 2007, 19, 4957-4963.	3.2	43
75	Experimental Evidence of $\text{Ca}[\text{B}_{12}\text{H}_{12}]$ Formation During Decomposition of a $\text{Ca}(\text{BH}_4)_2 + \text{MgH}_2$ Based Reactive Hydride Composite. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18010-18014.	1.5	43
76	Controlled Reduction of NiO Using Reactive Ball Milling under Hydrogen Atmosphere Leading to Ni ⁰ /NiO Nanocomposites. <i>Chemistry of Materials</i> , 2004, 16, 5664-5669.	3.2	42
77	Enhanced mechanical properties in a Zr-based metallic glass caused by deformation-induced nanocrystallization. <i>Scripta Materialia</i> , 2010, 62, 13-16.	2.6	41
78	Voltage-Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energy-Efficient Magnetic Actuation. <i>Advanced Functional Materials</i> , 2017, 27, 1701904.	7.8	41
79	Cold compaction of metal-ceramic (ferromagnetic-antiferromagnetic) composites using high pressure torsion. <i>Journal of Alloys and Compounds</i> , 2007, 434-435, 505-508.	2.8	40
80	Improved plasticity and corrosion behavior in Ti-Zr-Cu-Pd metallic glass with minor additions of Nb: An alloy composition intended for biomedical applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 559, 159-164.	2.6	40
81	Nanostructured Al ₈₈ Ni ₄ Sm ₈ alloys investigated by transmission electron and field-ion microscopies. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 304-306, 315-320.	2.6	39
82	Effects of the anion in glycine-containing electrolytes on the mechanical properties of electrodeposited Co-Ni films. <i>Materials Chemistry and Physics</i> , 2011, 130, 1380-1386.	2.0	39
83	Nanocasting of Mesoporous In-TM (TM = Co, Fe, Mn) Oxides: Towards 3D Diluted Oxide Magnetic Semiconductor Architectures. <i>Advanced Functional Materials</i> , 2013, 23, 900-911.	7.8	38
84	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.	1.5	38
85	Anelastic deformation of a Pd ₄₀ Cu ₃₀ Ni ₁₀ P ₂₀ bulk metallic glass during nanoindentation. <i>Applied Physics Letters</i> , 2006, 88, 171911.	1.5	37
86	Glass forming ability of the Al-Ce-Ni system. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 4874-4877.	1.5	37
87	Activation of the reactive hydride composite 2NaBH ₄ +MgH ₂ . <i>Scripta Materialia</i> , 2011, 64, 1035-1038.	2.6	37
88	EEL spectroscopic tomography: Towards a new dimension in nanomaterials analysis. <i>Ultramicroscopy</i> , 2012, 122, 12-18.	0.8	37
89	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.	2.9	37
90	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.	2.8	37

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91	Magnetic properties of ball milled Fe-40 Al at.% alloys. IEEE Transactions on Magnetism, 1998, 34, 1129-1131.	1.2	36
92	Optimisation of the ball-milling and heat treatment parameters for synthesis of amorphous and nanocrystalline Mg ₂ Ni-based alloys. Journal of Alloys and Compounds, 2003, 349, 242-254.	2.8	36
93	Microstructural evolution during decomposition and crystallization of the Cu ₆₀ Zr ₂₀ Ti ₂₀ amorphous alloy. Journal of Materials Research, 2004, 19, 505-512.	1.2	36
94	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.	1.1	36
95	Resolving Material-Specific Structures within Fe ₃ O ₄ ⁵⁷ Fe- ⁵⁷ Fe Core Shell Nanoparticles Using Anomalous Small-Angle X-ray Scattering. ACS Nano, 2013, 7, 921-931.	7.3	36
96	Ca(BH ₄) ₂ + MgH ₂ : Desorption Reaction and Role of Mg on Its Reversibility. Journal of Physical Chemistry C, 2013, 117, 3846-3852.	1.5	35
97	The influence of composition and low temperature annealing on hardness and ductility of rapidly solidified Al-Ni-Ce alloys. Scripta Materialia, 2002, 47, 31-37.	2.6	34
98	Crystallization of a Al ₄ Ni ₆ Ce glass and its influence on mechanical properties. Acta Materialia, 2003, 51, 1067-1077.	3.8	33
99	Direct Synthesis of Isolated L10 FePt Nanoparticles in a Robust TiO ₂ Matrix via a Combined Sol-Gel/Pyrolysis Route. Advanced Materials, 2006, 18, 466-470.	11.1	33
100	3D hierarchically porous Cu-BiOCl nanocomposite films: one-step electrochemical synthesis, structural characterization and nanomechanical and photoluminescent properties. Nanoscale, 2013, 5, 12542.	2.8	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 Al-Ni-Sm system. Journal of Non-Crystalline Solids, 2001, 289, 214-220.	1.5	31
103	Ultraporous Single Phase Iron Oxide-Silica Nanostructured Aerogels from Ferrous Precursors. Langmuir, 2004, 20, 1425-1429.	1.6	31
104	Cold Consolidation of Metal-Ceramic Nanocomposite Powders with Large Ceramic Fractions. Advanced Functional Materials, 2008, 18, 3293-3298.	7.8	31
105	Effects of severe plastic deformation on the structure and thermo-mechanical properties of Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ bulk metallic glass. Journal of Alloys and Compounds, 2010, 500, 61-67.	2.8	31
106	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.	1.8	31
107	Room temperature magnetic hardening in mechanically milled ferromagnetic-antiferromagnetic composites. Journal of Magnetism and Magnetic Materials, 2000, 219, 53-57.	1.0	30
108	High-coercivity ultralight transparent magnets. Applied Physics Letters, 2003, 82, 4307-4309.	1.5	30

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109	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.	2.8	30
110	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.	11.1	30
111	Novel Ti-Zr-Hf-Fe Nanostructured Alloy for Biomedical Applications. <i>Materials</i> , 2013, 6, 4930-4945.	1.3	30
112	Selective generation of local ferromagnetism in austenitic stainless steel using nanoindentation. <i>Applied Physics Letters</i> , 2006, 89, 032509.	1.5	28
113	Amorphization of soft magnetic alloys by the mechanical alloying technique. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991, 134, 1368-1371.	2.6	27
114	Nanocrystallization in Mg ₈₃ Ni ₁₇ xYx (x=0, 7.5) amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2002, 345, 123-129.	2.8	27
115	Structurally and mechanically tunable molybdenum oxide films and patterned submicrometer structures by electrodeposition. <i>Electrochimica Acta</i> , 2015, 173, 705-714.	2.6	27
116	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.	1.2	25
117	Unconventional elastic properties, deformation behavior and fracture characteristics of newly developed rare earth bulk metallic glasses. <i>Intermetallics</i> , 2009, 17, 1090-1097.	1.8	25
118	Chemical State, Distribution, and Role of Ti- and Nb-Based Additives on the Ca(BH ₄) ₂ System. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4394-4403.	1.5	25
119	Improved fluoride glasses for 1.3 μm optical amplifiers. <i>Journal of Non-Crystalline Solids</i> , 1993, 161, 257-261.	1.5	24
120	Structural, mechanical and magnetic properties of nanostructured FeAl alloys during disordering and thermal recovery. <i>Scripta Materialia</i> , 1999, 11, 689-695.	0.5	24
121	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.	1.8	24
122	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. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 502-517.	2.1	24
123	Crystallization behavior of some melt spun Nd-Fe-B alloys. <i>Journal of Materials Research</i> , 1990, 5, 1201-1206.	1.2	23
124	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.	3.8	23
125	Designing new biocompatible glass-forming Ti _{75-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.	1.6	23
126	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.	4.0	23

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127	Controlling magnetic vortices through exchange bias. <i>Applied Physics Letters</i> , 2006, 88, 042502.	1.5	22
128	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.	3.6	22
129	Stability and crystallization of Fe-Co-Nb-B amorphous alloys. <i>Journal of Non-Crystalline Solids</i> , 2004, 333, 320-326.	1.5	21
130	The effect of saccharine on the localized electrochemical deposition of Cu-rich Cu-Ni microcolumns. <i>Electrochemistry Communications</i> , 2011, 13, 973-976.	2.3	21
131	Hydrogen storage in 2NaBH ₄ +MgH ₂ mixtures: Destabilization by additives and nanoconfinement. <i>Journal of Alloys and Compounds</i> , 2012, 536, S236-S240.	2.8	21
132	NaAlH ₄ confined in ordered mesoporous carbon. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 8829-8837.	3.8	21
133	Magnetic investigations on the disordering of a ball milled Fe-40 Al alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 203, 129-131.	1.0	20
134	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.	2.8	20
135	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.	2.8	20
136	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.	1.6	20
137	Electrodeposition of cobalt-yttrium hydroxide/oxide nanocomposite films from particle-free aqueous baths containing chloride salts. <i>Electrochimica Acta</i> , 2011, 56, 5142-5150.	2.6	20
138	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.	1.1	20
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