

# 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  
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.	5.2	12
2	Tunable Magnetism in Nanoporous CuNi Alloys by Reversible Voltage-Driven Element-Selective Redox Processes. <i>Small</i> , 2018, 14, e1704396.	5.2	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.	3.6	22
5	Clustering analysis strategies for electron energy loss spectroscopy (EELS). <i>Ultramicroscopy</i> , 2018, 185, 42-48.	0.8	18
6	Evaporation-induced self-assembly synthesis of Ni-doped mesoporous SnO <sub>2</sub> thin films with tunable room temperature magnetic properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5517-5527.	2.7	19
7	Cross-sectioning spatio-temporal Co-In electrodeposits: Disclosing a magnetically-patterned nanolaminated structure. <i>Materials and Design</i> , 2017, 114, 202-207.	3.3	2
8	A facile co-precipitation synthesis of heterostructured ZrO <sub>2</sub>   ZnO nanoparticles as efficient photocatalysts for wastewater treatment. <i>Journal of Materials Science</i> , 2017, 52, 13779-13789.	1.7	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.	7.8	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.	2.8	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.	2.8	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.	2.8	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.	2.6	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.	2.9	37
15	Nanocasting synthesis of mesoporous SnO <sub>2</sub> with a tunable ferromagnetic response through Ni loading. <i>RSC Advances</i> , 2016, 6, 104799-104807.	1.7	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.	1.6	9
17	Designing new biocompatible glass-forming Ti <sub>75</sub> -xZr <sub>10</sub> Nb <sub>x</sub> -Si <sub>15</sub> (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
18	Tailoring Staircase-like Hysteresis Loops in Electrodeposited Trisegmented Magnetic Nanowires: a Strategy toward Minimization of Interwire Interactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4109-4117.	4.0	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.	2.8	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.	3.1	3
21	Ni-, Pt- and (Ni/Pt)-doped TiO <sub>2</sub> nanophotocatalysts: A smart approach for sustainable degradation of Rhodamine B dye. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 270-278.	10.8	85
22	Effect of Surface Modifications of Ti <sub>40</sub> Zr <sub>10</sub> Cu <sub>38</sub> Pd <sub>12</sub> Bulk Metallic Glass and Ti-6Al-4V Alloy on Human Osteoblasts In Vitro Biocompatibility. <i>PLoS ONE</i> , 2016, 11, e0156644.	1.1	19
23	Sorption properties and reversibility of Ti(IV) and Nb(V)-fluoride doped-Ca(BH <sub>4</sub> ) <sub>2</sub> –MgH <sub>2</sub> system. <i>Journal of Alloys and Compounds</i> , 2015, 622, 989-994.	2.8	18
24	Structurally and mechanically tunable molybdenum oxide films and patterned submicrometer structures by electrodeposition. <i>Electrochimica Acta</i> , 2015, 173, 705-714.	2.6	27
25	Nanomechanical behavior of 3D porous metal–ceramic nanocomposite Bi/Bi <sub>2</sub> O <sub>3</sub> films. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 626, 150-158.	2.6	4
26	Origin of the large dispersion of magnetic properties in nanostructured oxides: Fe <sub>x</sub> O/Fe <sub>3</sub> O <sub>4</sub> nanoparticles as a case study. <i>Nanoscale</i> , 2015, 7, 3002-3015.	2.8	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.	1.5	38
28	New binuclear copper(II) coordination polymer based on mixed pyrazolic and oxalate ligands: structural characterization and mechanical properties. <i>RSC Advances</i> , 2015, 5, 32369-32375.	1.7	6
29	Role of aluminum chloride on the reversible hydrogen storage properties of the Li–Na–H system. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 13506-13517.	3.8	20
30	Evaluation of the anatase/rutile phase composition influence on the photocatalytic performances of mesoporous TiO <sub>2</sub> powders. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14483-14491.	3.8	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.	1.9	18
32	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
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.	2.8	14
34	Structural and mechanical modifications induced on Cu <sub>47.5</sub> Zr <sub>47.5</sub> Al <sub>5</sub> metallic glass by surface laser treatments. <i>Applied Surface Science</i> , 2014, 290, 188-193.	3.1	19
35	In vitro biocompatibility assessment of Ti <sub>40</sub> Cu <sub>38</sub> Zr <sub>10</sub> Pd <sub>12</sub> bulk metallic glass. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 163-172.	1.7	19
36	Effects of shot peening on the nanoindentation response of Cu <sub>47.5</sub> Zr <sub>47.5</sub> Al <sub>5</sub> metallic glass. <i>Journal of Alloys and Compounds</i> , 2014, 586, S36-S40.	2.8	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.	1.8	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.	2.8	84
39	Self-organized spatio-temporal micropatterning in ferromagnetic Coâ€In films. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8259-8269.	2.7	9
40	Direct evidence for an interdiffused intermediate layer in bi-magnetic coreâ€shell nanoparticles. <i>Nanoscale</i> , 2014, 6, 11911-11920.	2.8	46
41	Facile <i>in Situ</i> Synthesis of BiOCl Nanoplates Stacked to Highly Porous TiO <sub>2</sub> : A Synergistic Combination for Environmental Remediation. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 13994-14000.	4.0	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.	2.8	13
43	Structural evolution upon decomposition of the LiAlH <sub>4</sub> +LiBH <sub>4</sub> system. <i>Journal of Alloys and Compounds</i> , 2014, 615, S693-S697.	2.8	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.	1.2	2
45	Effect of Thermally-Induced Surface Oxidation on the Mechanical Properties and Corrosion Resistance of Zr <sub>60</sub> Cu <sub>25</sub> Al <sub>10</sub> Fe <sub>5</sub> Bulk Metallic Glass. <i>Science of Advanced Materials</i> , 2014, 6, 27-36.	0.1	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.	5.0	8
47	Ammonia-free infiltration of NaBH <sub>4</sub> into highly-ordered mesoporous silica and carbon matrices for hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2013, 580, S309-S312.	2.8	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.	2.6	8
49	Correlating material-specific layers and magnetic distributions within onion-like Fe <sub>3</sub> O <sub>4</sub> /MnO <sub>1.5</sub> -Mn <sub>2</sub> O <sub>3</sub> core/shell nanoparticles. <i>Journal of Applied Physics</i> , 2013, 113, 17B531.	1.1	20
50	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. <i>Nature Communications</i> , 2013, 4, 2960.	5.8	160
51	Influence of the shot-peening intensity on the structure and near-surface mechanical properties of Ti <sub>40</sub> Zr <sub>10</sub> Cu <sub>38</sub> Pd <sub>12</sub> bulk metallic glass. <i>Applied Physics Letters</i> , 2013, 103, 211907.	1.5	18
52	Ordered arrays of ferromagnetic, compositionally graded Cu <sub>1-x</sub> Ni <sub>x</sub> alloy nanopillars prepared by template-assisted electrodeposition. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7215.	2.7	11
53	Highly ordered mesoporous magnesium niobate high- $\epsilon^*$ dielectric ceramic: synthesis, structural/mechanical characterization and thermal stability. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4948.	2.7	4
54	Resolving Material-Specific Structures within Fe <sub>3</sub> O <sub>4</sub> /Mn <sub>2</sub> O <sub>3</sub> Core   Shell Nanoparticles Using Anomalous Small-Angle X-ray Scattering. <i>ACS Nano</i> , 2013, 7, 921-931.	7.3	36

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55	Mechanochemical synthesis of NaBH <sub>4</sub> starting from NaHâ€“MgB <sub>2</sub> reactive hydride composite system. International Journal of Hydrogen Energy, 2013, 38, 2363-2369.	3.8	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.	2.3	10
57	NaAlH <sub>4</sub> confined in ordered mesoporous carbon. International Journal of Hydrogen Energy, 2013, 38, 8829-8837.	3.8	21
58	Controlled 3D-coating of the pores of highly ordered mesoporous antiferromagnetic Co <sub>3</sub> O <sub>4</sub> replicas with ferrimagnetic Fe <sub>x</sub> Co <sub>3-â€“x</sub> O <sub>4</sub> nanolayers. Nanoscale, 2013, 5, 5561.	2.8	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.	2.6	40
60	Chemical State, Distribution, and Role of Ti- and Nb-Based Additives on the Ca(BH <sub>4</sub> ) <sub>2</sub> System. Journal of Physical Chemistry C, 2013, 117, 4394-4403.	1.5	25
61	3D hierarchically porous Cuâ€“BiOCl nanocomposite films: one-step electrochemical synthesis, structural characterization and nanomechanical and photoluminescent properties. Nanoscale, 2013, 5, 12542.	2.8	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.	7.8	38
63	Ca(BH <sub>4</sub> ) <sub>2</sub> + MgH <sub>2</sub> : Desorption Reaction and Role of Mg on Its Reversibility. Journal of Physical Chemistry C, 2013, 117, 3846-3852.	1.5	35
64	On the biodegradability, mechanical behavior, and cytocompatibility of amorphous Mg <sub>72</sub> Zn <sub>23</sub> Ca <sub>5</sub> and crystalline Mg <sub>70</sub> Zn <sub>23</sub> Ca <sub>5</sub> Pd <sub>2</sub> alloys as temporary implant materials. Journal of Biomedical Materials Research - Part A, 2013, 101A, 502-517.	2.1	24
65	Novel Tiâ€“Zrâ€“Hfâ€“Fe Nanostructured Alloy for Biomedical Applications. Materials, 2013, 6, 4930-4945.	1.3	30
66	Comparative study of nanoindentation on melt-spun ribbon and bulk metallic glass with Ni <sub>60</sub> Nb <sub>37</sub> B <sub>3</sub> composition. Journal of Materials Research, 2013, 28, 2740-2746.	1.2	7
67	EEL spectroscopic tomography: Towards a new dimension in nanomaterials analysis. Ultramicroscopy, 2012, 122, 12-18.	0.8	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.	2.8	4
69	Deformation and fracture behavior of corrosion-resistant, potentially biocompatible, Ti <sub>40</sub> Zr <sub>10</sub> Cu <sub>38</sub> Pd <sub>12</sub> bulk metallic glass. Journal of Alloys and Compounds, 2012, 536, S74-S77.	2.8	6
70	Mechanical and corrosion behaviour of as-cast and annealed Zr <sub>60</sub> Cu <sub>20</sub> Al <sub>10</sub> Fe <sub>5</sub> Ti <sub>5</sub> bulk metallic glass. Intermetallics, 2012, 28, 149-155.	1.8	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.	3.8	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.	3.8	90

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73	Hydrogen storage in 2NaBH <sub>4</sub> +MgH <sub>2</sub> mixtures: Destabilization by additives and nanoconfinement. Journal of Alloys and Compounds, 2012, 536, S236-S240.	2.8	21
74	Helical and Tubular Lipid Microstructures that are Electroless-Coated with CoNiReP for Wireless Magnetic Manipulation. Small, 2012, 8, 1498-1502.	5.2	51
75	Strongly exchange coupled inverse ferrimagnetic soft/hard, MnxFe <sub>3</sub> xO <sub>4</sub> /FexMn <sub>3</sub> xO <sub>4</sub> , core/shell heterostructured nanoparticles. Nanoscale, 2012, 4, 5138.	2.8	76
76	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.	1.1	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.	1.5	72
78	Effect of Transition Metal Fluorides on the Sorption Properties and Reversible Formation of Ca(BH <sub>4</sub> ) <sub>2</sub> . Journal of Physical Chemistry C, 2011, 115, 2497-2504.	1.5	58
79	Experimental Evidence of Na <sub>2</sub> [B <sub>12</sub> H <sub>12</sub> ] and Na Formation in the Desorption Pathway of the 2NaBH <sub>4</sub> +MgH <sub>2</sub> System. Journal of Physical Chemistry C, 2011, 115, 16664-16671.	1.5	46
80	Experimental Evidence of Ca[B <sub>12</sub> H <sub>12</sub> ] Formation During Decomposition of a Ca(BH <sub>4</sub> ) <sub>2</sub> + MgH <sub>2</sub> Based Reactive Hydride Composite. Journal of Physical Chemistry C, 2011, 115, 18010-18014.	1.5	43
81	Structure and Thermodynamic Properties of the NaMgH <sub>3</sub> Perovskite: A Comprehensive Study. Chemistry of Materials, 2011, 23, 2317-2326.	3.2	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.	6.6	55
83	Nanoscale phase separation in coated Ag nanoparticles. Nanoscale, 2011, 3, 4220.	2.8	4
84	2Mg-Fe alloys processed by hot-extrusion: Influence of processing temperature and the presence of MgO and MgH <sub>2</sub> on hydrogenation sorption properties. Journal of Alloys and Compounds, 2011, 509, S460-S463.	2.8	19
85	Indentation plastic work and large compression plasticity in in situ nanocrystallized Zr <sub>62</sub> Cu <sub>18</sub> Ni <sub>10</sub> Al <sub>10</sub> bulk metallic glass. Journal of Alloys and Compounds, 2011, 509, S87-S91.	2.8	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.	4.0	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.	2.2	56
88	Enhanced mechanical properties and in vitro corrosion behavior of amorphous and devitrified Ti <sub>40</sub> Zr <sub>10</sub> Cu <sub>38</sub> Pd <sub>12</sub> metallic glass. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 1709-1717.	1.5	97
89	Activation of the reactive hydride composite 2NaBH <sub>4</sub> +MgH <sub>2</sub> . Scripta Materialia, 2011, 64, 1035-1038.	2.6	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.	2.0	39

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91	The effect of saccharine on the localized electrochemical deposition of Cu-rich Cuâ€“Ni microcolumns. <i>Electrochemistry Communications</i> , 2011, 13, 973-976.	2.3	21
92	High-performance electrodeposited Co-rich CoNiReP permanent magnets. <i>Electrochimica Acta</i> , 2011, 56, 8979-8988.	2.6	9
93	Thermodynamic and Kinetic Investigations on Pure and Doped NaBH <sub>4</sub> ~MgH <sub>2</sub> System. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3151-3162.	1.5	50
94	Influence of the preparation method on the morphology of templated NiCo <sub>2</sub> O <sub>4</sub> spinel. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3671-3681.	0.8	9
95	The Influence of Deformationâ€“Induced Martensitic Transformations on the Mechanical Properties of Nanocomposite Cuâ€“Zrâ€“(Al) Systems. <i>Advanced Engineering Materials</i> , 2011, 13, 57-63.	1.6	20
96	Morphology, structure and magnetic properties of cobaltâ€“nickel films obtained from acidic electrolytes containing glycine. <i>Electrochimica Acta</i> , 2011, 56, 1399-1408.	2.6	93
97	Electrodeposition of cobaltâ€“yttrium hydroxide/oxide nanocomposite films from particle-free aqueous baths containing chloride salts. <i>Electrochimica Acta</i> , 2011, 56, 5142-5150.	2.6	20
98	Hydrogen sorption performance of MgH <sub>2</sub> doped with mesoporous nickel- and cobalt-based oxides. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5400-5410.	3.8	81
99	Structural and magnetic characterization of batch-fabricated nickel encapsulated multi-walled carbon nanotubes. <i>Nanotechnology</i> , 2011, 22, 275713.	1.3	19
100	Can Na <sub>2</sub> [B <sub>12</sub> H <sub>12</sub> ] be a decomposition product of NaBH <sub>4</sub> ?. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15093.	1.3	49
101	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
102	Nanocrystalline Electroplated Cuâ€“Ni: Metallic Thin Films with Enhanced Mechanical Properties and Tunable Magnetic Behavior. <i>Advanced Functional Materials</i> , 2010, 20, 983-991.	7.8	92
103	Sorption properties of NaBH <sub>4</sub> /MH <sub>2</sub> (M=Mg, Ti) powder systems. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5434-5441.	3.8	57
104	Enhanced mechanical properties due to structural changes induced by devitrification in Feâ€“Coâ€“Bâ€“Siâ€“Nb bulk metallic glass. <i>Acta Materialia</i> , 2010, 58, 6256-6266.	3.8	88
105	Outâ€“ofâ€“Plane Magnetic Patterning Based on Indentationâ€“Induced Nanocrystallization of a Metallic Glass. <i>Small</i> , 2010, 6, 1543-1549.	5.2	18
106	NaBX <sub>4</sub> -MgX <sub>2</sub> 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 <sub>2</sub> O <sub>4</sub> /Co <sub>3</sub> O <sub>4</sub> 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.	1.5	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.	1.5	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.	1.5	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.	1.8	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.	1.5	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.	1.5	13
114	Microstructural characterization and hydrogenation study of extruded MgFe alloy. <i>Journal of Alloys and Compounds</i> , 2010, 504, S299-S301.	2.8	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.	2.8	31
116	Synthesis of amorphous $\text{Mg}(\text{BH}_4)_2$ from $\text{MgB}_2$ and $\text{H}_2$ at room temperature. <i>Journal of Alloys and Compounds</i> , 2010, 508, 212-215.	2.8	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.	6.6	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.	5.2	71
120	Magnetic Proximity Effect Features in Antiferromagnetic/Ferrimagnetic Core-Shell Nanoparticles. <i>Physical Review Letters</i> , 2009, 102, 247201.	2.9	85
121	Structural relaxation and rejuvenation in a metallic glass induced by shot-peening. <i>Philosophical Magazine Letters</i> , 2009, 89, 831-840.	0.5	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.	1.2	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.	2.6	69
124	Yielding and intrinsic plasticity of $\text{Ti-Zr-Ni-Cu-Be}$ bulk metallic glass. <i>International Journal of Plasticity</i> , 2009, 25, 1540-1559.	4.1	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.	1.8	25
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