

Santiago Suriñach

List of Publications by Year in descending order

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246
papers

8,455
citations

43973

48
h-index

56606

83
g-index

248
all docs

248
docs citations

248
times ranked

7746
citing authors

#	ARTICLE	IF	CITATIONS
1	Exchange bias in nanostructures. <i>Physics Reports</i> , 2005, 422, 65-117.	10.3	1,722
2	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
3	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. <i>Nature Communications</i> , 2013, 4, 2960.	5.8	160
4	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
5	Improving the energy product of hard magnetic materials. <i>Physical Review B</i> , 2002, 65, .	1.1	112
6	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
7	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
8	Room-temperature coercivity enhancement in mechanically alloyed antiferromagnetic-ferromagnetic powders. <i>Applied Physics Letters</i> , 1999, 75, 3177-3179.	1.5	105
9	Coercivity and squareness enhancement in ball-milled hard magnetic-antiferromagnetic composites. <i>Applied Physics Letters</i> , 2001, 79, 1142-1144.	1.5	103
10	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
11	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
12	Low phonon-energy glasses for efficient 1.3 μm optical fibre amplifiers. <i>Electronics Letters</i> , 1993, 29, 237.	0.5	101
13	Structural relaxation and rejuvenation in a metallic glass induced by shot-peening. <i>Philosophical Magazine Letters</i> , 2009, 89, 831-840.	0.5	98
14	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
15	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
16	Nanostructured β ₂ -phase Ti-31.0Fe-9.0Sn and sub-μm 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
17	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
18	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.	3.8	88

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19	Structural redetermination, thermal expansion and refractive indices of KLu(WO ₄) ₂ . Journal of Applied Crystallography, 2006, 39, 230-236.	1.9	85
20	Magnetic Proximity Effect Features in Antiferromagnetic/Ferrimagnetic Core-Shell Nanoparticles. Physical Review Letters, 2009, 102, 247201.	2.9	85
21	Microstructural and kinetic aspects of the transformations induced in a FeAl alloy by ball-milling and thermal treatments. Acta Materialia, 1998, 46, 3305-3316.	3.8	84
22	Influence of magnetization on the reordering of nanostructured ball-milled Fe-40 at. % Al powders. Physical Review B, 1998, 58, R11864-R11867.	1.1	82
23	Cold-consolidation of ball-milled Fe-based amorphous ribbons by high pressure torsion. Scripta Materialia, 2004, 50, 1221-1225.	2.6	81
24	Synthesis of compositionally graded nanocast NiO/NiCo ₂ O ₄ /Co ₃ O ₄ mesoporous composites with tunable magnetic properties. Journal of Materials Chemistry, 2010, 20, 7021.	6.7	81
25	Hydrogen sorption performance of MgH ₂ doped with mesoporous nickel- and cobalt-based oxides. International Journal of Hydrogen Energy, 2011, 36, 5400-5410.	3.8	81
26	Mesoporous NiCo ₂ O ₄ Spinel: Influence of Calcination Temperature over Phase Purity and Thermal Stability. Crystal Growth and Design, 2009, 9, 4814-4821.	1.4	78
27	Exchange bias in ferromagnetic nanoparticles embedded in an antiferromagnetic matrix. International Journal of Nanotechnology, 2005, 2, 23.	0.1	77
28	Microstructural characterization of ultrafine-grained nickel. Physica Status Solidi A, 2003, 198, 263-271.	1.7	76
29	Strongly exchange coupled inverse ferrimagnetic soft/hard, Mn _x Fe _{3-x} O ₄ /Fe _x Mn _{3-x} O ₄ , core/shell heterostructured nanoparticles. Nanoscale, 2012, 4, 5138.	2.8	76
30	Glass formation and crystallization in the GeSe ₂ -Sb ₂ Te ₃ system. Journal of Materials Science, 1984, 19, 3005-3012.	1.7	74
31	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
32	Direct Magnetic Patterning due to the Generation of Ferromagnetism by Selective Ion Irradiation of Paramagnetic FeAl Alloys. Small, 2009, 5, 229-234.	5.2	71
33	Ligand-Capped Ru Nanoparticles as Efficient Electrocatalyst for the Hydrogen Evolution Reaction. ACS Catalysis, 2018, 8, 11094-11102.	5.5	70
34	Microstructural aspects of the hcp-fcc allotropic phase transformation induced in cobalt by ball milling. Philosophical Magazine, 2003, 83, 439-455.	0.7	69
35	Hydrogen desorption mechanism of 2NaBH ₄ +MgH ₂ composite prepared by high-energy ball milling. Scripta Materialia, 2009, 60, 1129-1132.	2.6	69
36	Synthesis of amorphous Mg(BH ₄) ₂ from MgB ₂ and H ₂ at room temperature. Journal of Alloys and Compounds, 2010, 508, 212-215.	2.8	66

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37	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
38	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
39	Volume expansion contribution to the magnetism of atomically disordered intermetallic alloys. <i>Physical Review B</i> , 2006, 74, .	1.1	59
40	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
41	Role of stacking faults in the structural and magnetic properties of ball-milled cobalt. <i>Physical Review B</i> , 2003, 68, .	1.1	56
42	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
43	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
44	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
45	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
46	Thermodynamic and Kinetic Investigations on Pure and Doped NaBH ₄ -MgH ₂ System. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3151-3162.	1.5	50
47	Can Na ₂ [B ₁₂ H ₁₂] be a decomposition product of NaBH ₄ ? <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15093.	1.3	49
48	Kinetics of reordering of Ni ₃ Al disordered by ball-milling. <i>Acta Metallurgica Et Materialia</i> , 1993, 41, 1065-1073.	1.9	48
49	Isothermal tuning of exchange bias using pulsed fields. <i>Applied Physics Letters</i> , 2003, 82, 3044-3046.	1.5	48
50	Experimental Evidence of Na ₂ [B ₁₂ H ₁₂] and Na Formation in the Desorption Pathway of the 2NaBH ₄ +MgH ₂ System. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16664-16671.	1.5	46
51	Hardening and softening of FeAl during milling and annealing. <i>Intermetallics</i> , 2000, 8, 805-813.	1.8	44
52	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
53	Reversible post-synthesis tuning of the superparamagnetic blocking temperature of ⁵⁷ 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
54	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.	3.2	42

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55	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
56	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
57	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
58	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
59	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
60	Glass forming ability of the Al-Ce-Ni system. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 4874-4877.	1.5	37
61	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
62	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
63	Magnetic properties of ball milled Fe-40 Al at.% alloys. <i>IEEE Transactions on Magnetics</i> , 1998, 34, 1129-1131.	1.2	36
64	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.	2.8	36
65	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.	1.2	36
66	The influence of composition and low temperature annealing on hardness and ductility of rapidly solidified Al-Ni-Ce alloys. <i>Scripta Materialia</i> , 2002, 47, 31-37.	2.6	34
67	Tailoring of paramagnetic (structurally ordered) nanometric grains separated by ferromagnetic (structurally disordered) grain boundaries: Isolating grain-boundary magnetic effects. <i>Physical Review B</i> , 2001, 63, .	1.1	33
68	Crystallization of a Al ₄ Ni ₆ Ce glass and its influence on mechanical properties. <i>Acta Materialia</i> , 2003, 51, 1067-1077.	3.8	33
69	Direct Synthesis of Isolated L10 FePt Nanoparticles in a Robust TiO ₂ Matrix via a Combined Sol-Gel/Pyrolysis Route. <i>Advanced Materials</i> , 2006, 18, 466-470.	11.1	33
70	Evaluation of the Volume Fraction Crystallised during Devitrification of Al-Based Amorphous Alloys. <i>Materials Science Forum</i> , 2000, 343-346, 365-370.	0.3	32
71	Glass forming ability and crystallisation processes within the Al-Ni-Sm system. <i>Journal of Non-Crystalline Solids</i> , 2001, 289, 214-220.	1.5	31
72	Ultraporous Single Phase Iron Oxide-Silica Nanostructured Aerogels from Ferrous Precursors. <i>Langmuir</i> , 2004, 20, 1425-1429.	1.6	31

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73	Cold Consolidation of Metal-Ceramic Nanocomposite Powders with Large Ceramic Fractions. <i>Advanced Functional Materials</i> , 2008, 18, 3293-3298.	7.8	31
74	Effects of severe plastic deformation on the structure and thermo-mechanical properties of Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2010, 500, 61-67.	2.8	31
75	Mechanical and corrosion behaviour of as-cast and annealed Zr ₆₀ Cu ₂₀ Al ₁₀ Fe ₅ Ti ₅ bulk metallic glass. <i>Intermetallics</i> , 2012, 28, 149-155.	1.8	31
76	Room temperature magnetic hardening in mechanically milled ferromagnetic-antiferromagnetic composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 219, 53-57.	1.0	30
77	High-coercivity ultralight transparent magnets. <i>Applied Physics Letters</i> , 2003, 82, 4307-4309.	1.5	30
78	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
79	Novel Ti-Zr-Hf-Fe Nanostructured Alloy for Biomedical Applications. <i>Materials</i> , 2013, 6, 4930-4945.	1.3	30
80	Selective generation of local ferromagnetism in austenitic stainless steel using nanoindentation. <i>Applied Physics Letters</i> , 2006, 89, 032509.	1.5	28
81	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
82	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
83	Structurally and mechanically tunable molybdenum oxide films and patterned submicrometer structures by electrodeposition. <i>Electrochimica Acta</i> , 2015, 173, 705-714.	2.6	27
84	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
85	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
86	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
87	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
88	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
89	Crystallization behavior of some melt spun Nd-Fe-B alloys. <i>Journal of Materials Research</i> , 1990, 5, 1201-1206.	1.2	23
90	Mechanical behaviour of brushite and hydroxyapatite coatings electrodeposited on newly developed FeMnSiPd alloys. <i>Journal of Alloys and Compounds</i> , 2017, 729, 231-239.	2.8	23

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91	Stability and crystallization of Fe-Co-Nb-B amorphous alloys. <i>Journal of Non-Crystalline Solids</i> , 2004, 333, 320-326.	1.5	21
92	Magnetic investigations on the disordering of a ball milled Fe-40 Al at% alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 203, 129-131.	1.0	20
93	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
94	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
95	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
96	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
97	Determination of T-T and T-HR-T curves from non-isothermal crystallization kinetic experiments. <i>Thermochimica Acta</i> , 1992, 203, 379-389.	1.2	19
98	Thermal stability, crystallization kinetics, and grain growth in an amorphous Al ₈₅ Ce ₅ Ni ₈ Co ₂ alloy. <i>Journal of Materials Research</i> , 2002, 17, 2140-2146.	1.2	19
99	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.	2.8	19
100	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.	2.6	19
101	Microstructural characterization and hydrogenation study of extruded MgFe alloy. <i>Journal of Alloys and Compounds</i> , 2010, 504, S299-S301.	2.8	19
102	Mg-Fe alloys processed by hot-extrusion: Influence of processing temperature and the presence of MgO and MgH ₂ on hydrogenation sorption properties. <i>Journal of Alloys and Compounds</i> , 2011, 509, S460-S463.	2.8	19
103	Mechanochemical synthesis of NaBH ₄ starting from NaH-MgB ₂ reactive hydride composite system. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2363-2369.	3.8	19
104	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.	3.1	19
105	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.	2.7	19
106	A new temperature versus heating rate transformation (T-HR-T) diagram: Application to study the crystallization behaviour of Fe _{67.5} Co ₁₅ Nb _{1.5} B ₁₆ metallic glass. <i>Acta Metallurgica Et Materialia</i> , 1992, 40, 37-42.	1.9	18
107	Out-of-Plane Magnetic Patterning Based on Indentation-Induced Nanocrystallization of a Metallic Glass. <i>Small</i> , 2010, 6, 1543-1549.	5.2	18
108	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.	1.5	18

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109	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.	1.7	18
110	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.	2.8	17
111	Patterning of magnetic structures on austenitic stainless steel by local ion beam nitriding. <i>Acta Materialia</i> , 2008, 56, 4570-4576.	3.8	17
112	Relaxation processes below the glass transition in a GeSe ₂ -GeTe ₂ -Sb ₂ Te ₃ alloy. <i>Journal of Non-Crystalline Solids</i> , 1988, 104, 283-290.	1.5	16
113	Kinetics of Reordering in A Nanograined FeAl Alloy. <i>Materials Science Forum</i> , 1997, 235-238, 415-420.	0.3	16
114	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.	1.5	16
115	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
116	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
117	Nanocasting synthesis of mesoporous SnO ₂ with a tunable ferromagnetic response through Ni loading. <i>RSC Advances</i> , 2016, 6, 104799-104807.	1.7	16
118	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
119	Self-templating faceted and spongy single-crystal ZnO nanorods: Resistive switching and enhanced piezoresponse. <i>Materials and Design</i> , 2017, 133, 54-61.	3.3	16
120	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.	2.8	15
121	Influence of the loading rate on the indentation response of Ti-based metallic glass. <i>Journal of Materials Research</i> , 2009, 24, 918-925.	1.2	15
122	Measurements of structural relaxation in amorphous Fe ₄₀ Ni ₄₀ B ₂₀ by differential scanning calorimetry. <i>Materials Science and Engineering</i> , 1988, 97, 533-536.	0.1	14
123	Severe plastic deformation of a Ti-based nanocomposite alloy studied by nanoindentation. <i>Intermetallics</i> , 2007, 15, 1038-1045.	1.8	14
124	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
125	Thermodynamic and thermokinetic characteristics of the glass transition in a GeSe ₂ -GeTe ₂ -Sb ₂ Te ₃ alloy. <i>Journal of Non-Crystalline Solids</i> , 1986, 86, 311-321.	1.5	13
126	Kinetics of Ordering in Ni ₃ Al Based Alloys Disordered by Ball Milling. <i>Materials Science Forum</i> , 0, 88-90, 497-504.	0.3	13

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127	Coercivity through controlled crystallization in melt-spun Nd—,Fe—,B amorphous alloys. Journal of Alloys and Compounds, 1992, 182, 211-221.	2.8	13
128	Detailed analysis of the crystallization of the Co-P amorphous system: Kinetics, influence of magnetic order, and formation of textures. Physical Review B, 1997, 56, 6056-6065.	1.1	13
129	Calorimetric and X-Ray Measurements in Ultrafine-Grained Nickel. Materials Science Forum, 2003, 426-432, 4507-4512.	0.3	13
130	Mechanical behavior under nanoindentation of a new Ni-based glassy alloy produced by melt-spinning and copper mold casting. Journal of Non-Crystalline Solids, 2010, 356, 2251-2257.	1.5	13
131	Influence of the irradiation temperature on the surface structure and physical/chemical properties of Ar ion-irradiated bulk metallic glasses. Journal of Alloys and Compounds, 2014, 610, 118-125.	2.8	13
132	Glass-to-crystalline transformation in rapidly quenched Fe ₇₈ B ₉ Si ₁₃ ferromagnetic alloy. Journal of Non-Crystalline Solids, 1984, 69, 105-115.	1.5	12
133	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.	2.6	12
134	Microstructure and hardness of a nanostructured Fe-40Al at% alloy. Scripta Materialia, 1999, 12, 801-806.	0.5	12
135	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.	1.5	12
136	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
137	Properties of FeNiB-based metallic glasses with primary BCC and FCC crystallisation products. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 532-534.	1.0	12
138	Work-hardening mechanisms of the Ti ₆₀ Cu ₁₄ Ni ₁₂ Sn ₄ Nb ₁₀ nanocomposite alloy. Journal of Materials Research, 2009, 24, 3146-3153.	1.2	12
139	Controlled 3D-coating of the pores of highly ordered mesoporous antiferromagnetic Co ₃ O ₄ replicas with ferrimagnetic Fe _x Co _{3-x} O ₄ nanolayers. Nanoscale, 2013, 5, 5561.	2.8	12
140	The crystallization process of Ni ₇₈ Si ₈ B ₁₄ amorphous alloys. Materials Science and Engineering, 1988, 97, 333-336.	0.1	11
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