Walter JosÃ© Botta

List of Publications by Year
in descending order

299	7,002	81743	123241
papers	citations	39 h-index	61 g-index

305	305	305	4094
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Room temperature conversion of Mg to MgH2 assisted by low fractions of additives. International Journal of Hydrogen Energy, 2022, 47, 470-489.	3.8	7
2	Metallurgical processing of Mg alloys and MgH2 for hydrogen storage. Journal of Alloys and Compounds, 2022, 897, 162798.	2.8	21
3	Hydrogen absorption/desorption reactions of the (TiVNb)85Cr15 multicomponent alloy. Journal of Alloys and Compounds, 2022, 901, 163620.	2.8	11
4	A wear-resistant Al85Cu6Fe3Cr6 spray-formed quasicrystalline composite. Materialia, 2022, 21, 101367.	1.3	3
5	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. Materials Research Letters, 2022, 10, 163-256.	4.1	215
6	An Overview of Thermally Sprayed Fe-Cr-Nb-B Metallic Glass Coatings: From the Alloy Development to the Coatingâ€™s Performance Against Corrosion and Wear. Journal of Thermal Spray Technology, 2022, 31, 923-955.	1.6	6
7	Synthesis, characterization and first hydrogen absorption/desorption of the Mg35Al15Ti25V10Zn15 high entropy alloy. International Journal of Hydrogen Energy, 2022, 47, 22881-22892.	3.8	10
8	Synthesis and hydrogen storage behavior of Mgâ€“Vâ€“Alâ€“Crâ€“Ni high entropy alloys. International Journal of Hydrogen Energy, 2021, 46, 2351-2361.	3.8	69
9	Interaction between Fe66Cr10Nb5B19 metallic glass and aluminum during spark plasma sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 799, 140165.	2.6	21
10	Challenges in optimizing the resistance to corrosion and wear of amorphous Fe-Cr-Nb-B alloy containing crystalline phases. Journal of Non-Crystalline Solids, 2021, 555, 120537.	1.5	33
11	Recent developments on fabrication of Alâ€matrix composites reinforced with quasicrystals: From metastable to conventional processing. Journal of Materials Research, 2021, 36, 281-297.	1.2	31
12	Corrosion Resistant Boron-Modified Ferritic and Austenitic Stainless Steels Designed by CALPHAD. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 2708-2719.	1.1	1
13	Effects of the Chromium Content in (TiVNb)100â^'xCrx Body-Centered Cubic High Entropy Alloys Designed for Hydrogen Storage Applications. Energies, 2021, 14, 3068.	1.6	24
14	Design of TiVNb-(Cr, Ni or Co) multicomponent alloys with the same valence electron concentration for hydrogen storage. Journal of Alloys and Compounds, 2021, 865, 158767.	2.8	37
15	An approach to design single BCC Mg-containing high entropy alloys for hydrogen storage applications. International Journal of Hydrogen Energy, 2021, 46, 25555-25561.	3.8	40
16	Thermodynamic modelling of hydrogen-multicomponent alloy systems: Calculating pressure-composition-temperature diagrams. Acta Materialia, 2021, 215, 117070.	3.8	28
17	Compositional influence on heating-induced clustered glass formation for multicomponent Zr55-60Al10(Co,Ni,Cu,Ag)30-35 alloys. Intermetallics, 2021, 135, 107233.	1.8	2
18	Influence of chromium concentration and partial crystallization on the corrosion resistance of FeCrNiB amorphous alloys. Materials Characterization, 2021, 179, 111369.	1.9	18

#	Article	IF	Citations
19	Corrosion resistance of WE43 Mg alloy in sodium chloride solution. Materials Chemistry and Physics, 2021, 272, 124930.	2.0	31
20	Strong and ductile recycled Al-7Si-3Cu-1Fe alloy: Controlling the morphology of quasicrystal approximant Î±-phase by Mn and V addition. Journal of Alloys and Compounds, 2021, 888, 161508.	2.8	9
21	Corrosion resistant and tough multi-principal element Cr-Co-Ni alloys. Journal of Alloys and Compounds, 2021, 884, 161107.	2.8	14
22	Hydrogen Absorption/Desorption Behavior of a Cold-Rolled TiFe Intermetallic Compound. Materials Research, 2021, 24, .	0.6	9
23	Structural transformations of a gas-atomized Al62.5Cu25Fe12.5 alloy during detonation spraying, spark plasma sintering and hot pressing. Science of Sintering, 2021, 53, 379-386.	0.5	2
24	Recent developments on fabrication of Al-matrix composites reinforced with quasicrystals: From metastable to conventional processing. Journal of Materials Research, 2021, 36, 1-17.	1.2	1
25	Severe plastic deformation and different surface treatments on the biocompatible Ti13Nb13Zr and Ti35Nb7Zr5Ta alloys: Microstructural and phase evolutions, mechanical properties, and bioactivity analysis. Journal of Alloys and Compounds, 2020, 812, 152116.	2.8	20
26	Hydrogen storage properties of filings of the ZK60 alloy modified with 2.5Âwt% mischmetal. International Journal of Hydrogen Energy, 2020, 45, 5375-5383.	3.8	7
27	Improved ball milling method for the synthesis of nanocrystalline TiFe compound ready to absorb hydrogen. International Journal of Hydrogen Energy, 2020, 45, 2084-2093.	3.8	19
28	Formation, structure and properties of pseudo-high entropy clustered bulk metallic glasses. Journal of Alloys and Compounds, 2020, 820, 153164.	2.8	7
29	Functionally graded aluminum reinforced with quasicrystal approximant phases â€“ Improving the wear resistance at high temperatures. Wear, 2020, 462-463, 203507.	1.5	9
30	Micro-structural characterization of supermartensitic stainless steel coating modified with boro processed by HVOF. Microscopy and Microanalysis, 2020, 26, 97-98.	0.2	0
31	Mg-containing multi-principal element alloys for hydrogen storage: A study of the MgTiNbCr0.5Mn0.5Ni0.5 and Mg0.68TiNbNi0.55 compositions. International Journal of Hydrogen Energy, 2020, 45, 19539-19552.	3.8	39
32	Synthesis of Nanostructured TiFe Hydrogen Storage Material by Mechanical Alloying via Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, 2000011.	1.6	13
33	Single step fabrication by spray forming of large volume Al-based composites reinforced with quasicrystals. Scripta Materialia, 2020, 181, 86-91.	2.6	24
34	Influence of Al Additions on the Microstructure and Mechanical Properties of a C and Si-Free High-Mn Steel. Metals, 2020, 10, 352.	1.0	3
35	Phase decomposition and mechanical properties of pseudo-high entropy Zr65(Al,Fe,Co,Ni,M)35 (M=Cu,) Tj ETQq1 1 0.784314 rgBT /O	2.8	3
36	The influence of the O2/C2H2 ratio on the structure and properties of Fe66Cr10Nb5B19 detonation coatings. Materials Today: Proceedings, 2020, 25, 384-386.	0.9	9

#	Article	IF	Citations
37	FCC phase formation in immiscible Mgâ€“Hf (magnesiumâ€“hafnium) system by high-pressure torsion. AIP Advances, 2020, 10, .	0.6	11
38	Wear-resistant boride reinforced steel coatings produced by non-vacuum electron beam cladding. Surface and Coatings Technology, 2020, 386, 125466.	2.2	22
39	Corrosion properties of amorphous, partially, and fully crystallized Fe68Cr8Mo4Nb4B16 alloy. Journal of Alloys and Compounds, 2020, 826, 154123.	2.8	36
40	Designing new quasicrystalline compositions in Al-based alloys. Journal of Alloys and Compounds, 2020, 823, 153765.	2.8	15
41	Formation, thermal stability and mechanical properties of high-entropy (Fe0.25Co0.25Ni0.25Cr0.125Mo0.0625Nb0.0625)100â€’Bx (xÂ= 7â€“14) amorphous alloys. Journal of Alloys and Compounds, 2020, 825, 153858.	2.8	15
42	Fast hydrogen absorption/desorption kinetics in reactive milled Mg-8 mol% Fe nanocomposites. International Journal of Hydrogen Energy, 2020, 45, 12408-12418.	3.8	21
43	Outstanding Tensile Ductility in High Iron-Containing Al-Si-Cu Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 2703-2710.	1.1	8
44	Wear and Corrosion Performance of Al-Cu-Fe-(Cr) Quasicrystalline Coatings Produced by HVOF. Journal of Thermal Spray Technology, 2020, 29, 1195-1207.	1.6	20
45	Fabrication of Al-matrix composite reinforced with quasicrystals using conventional metallurgical fabrication methods. Scripta Materialia, 2019, 173, 21-25.	2.6	26
46	Hydrogen Storage in Mg and Mg-Based Alloys and Composites Processed by Severe Plastic Deformation. Materials Transactions, 2019, 60, 1561-1570.	0.4	32
47	Tailoring the microstructure of recycled 319 aluminum alloy aiming at high ductility. Journal of Materials Research and Technology, 2019, 8, 3539-3549.	2.6	16
48	Formation of Metallic Glass Coatings by Detonation Spraying of a Fe66Cr10Nb5B19 Powder. Metals, 2019, 9, 846.	1.0	16
49	Hydrogen storage properties of 2ÂMgâ€“Fe mixtures processed by hot extrusion: Effect of ram speeds. International Journal of Hydrogen Energy, 2019, 44, 20203-20212.	3.8	2
50	Effects of graphite addition and air exposure on ball-milled Mgâ€“Al alloys for hydrogen storage. International Journal of Hydrogen Energy, 2019, 44, 23257-23266.	3.8	12
51	Hydrogen desorption/absorption properties of the extensively cold rolled Î² Tiâ€“40Nb alloy. International Journal of Hydrogen Energy, 2019, 44, 20133-20144.	3.8	7
52	Surface anodization of the biphasic Ti13Nb13Zr biocompatible alloy: Influence of phases on the formation of TiO2 nanostructures. Journal of Alloys and Compounds, 2019, 796, 93-102.	2.8	31
53	Formation and stability of complex metallic phases including quasicrystals explored through combinatorial methods. Scientific Reports, 2019, 9, 7136.	1.6	17
54	Formation, stability and ultrahigh strength of novel nanostructured alloys by partial crystallization of high-entropy (Fe0.25Co0.25Ni0.25Cr0.125Mo0.125)86â€’89B11â€’14 amorphous phase. Acta Materialia, 2019, 170, 50-61.	3.8	42

#	Article	IF	Citations
55	Effect of iron on the microstructure and mechanical properties of the spray-formed and rotary-swaged 319 aluminum alloy. International Journal of Advanced Manufacturing Technology, 2019, 102, 3879-3894.	1.5	15
56	Microstructure and mechanical behavior of Al92Fe3Cr2X3 (X = Ce, Mn, Ti, and V) alloys processed by centrifugal force casting. Journal of Materials Research and Technology, 2019, 8, 2092-2097.	2.6	9
57	Wear Resistance of Boron-Modified Supermartensitic Stainless Steel Coatings Produced by High-Velocity Oxygen Fuel Process. Journal of Thermal Spray Technology, 2019, 28, 2003-2014.	1.6	12
58	Corrosion and wear properties of FeCrMnCoSi HVOF coatings. Surface and Coatings Technology, 2019, 357, 993-1003.	2.2	42
59	Wear Resistant Duplex Stainless Steels Produced by Spray Forming. Metals and Materials International, 2019, 25, 456-464.	1.8	14
60	Effect of boron addition on the solidification sequence and microstructure of AlCoCrFeNi alloys. Journal of Alloys and Compounds, 2019, 775, 1235-1243.	2.8	42
61	Degradation of biodegradable implants: The influence of microstructure and composition of Mg-Zn-Ca alloys. Journal of Alloys and Compounds, 2019, 774, 168-181.	2.8	40
62	Mechanical activation of TiFe for hydrogen storage by cold rolling under inert atmosphere. International Journal of Hydrogen Energy, 2018, 43, 2913-2918.	3.8	66
63	The formation of quasicrystals in Al-Cu-Fe-(M=Cr,Ni) melt-spun ribbons. Journal of Alloys and Compounds, 2018, 731, 1288-1294.	2.8	24
64	Hydrogen-induced phase transition of MgZrTiFe0.5Co0.5Ni0.5 high entropy alloy. International Journal of Hydrogen Energy, 2018, 43, 1702-1708.	3.8	111
65	Characterization and Corrosion Resistance of Boron-Containing-Austenitic Stainless Steels Produced by Rapid Solidification Techniques. Materials, 2018, 11, 2189.	1.3	18
66	Changing the solidification sequence and the morphology of iron-containing intermetallic phases in AA6061 aluminum alloy processed by spray forming. Materials Characterization, 2018, 145, 507-515.	1.9	18
67	Synthesis of Î²-Ti-Nb alloys from elemental powders by high-energy ball milling and their hydrogenation features. International Journal of Hydrogen Energy, 2018, 43, 18382-18391.	3.8	8
68	Effects of friction stir processing on hydrogen storage of ZK60 alloy. International Journal of Hydrogen Energy, 2018, 43, 11085-11091.	3.8	18
69	Room temperature hydrogen absorption by Mg andÂMg TiFe nanocomposites processed by high-energy ball milling. International Journal of Hydrogen Energy, 2018, 43, 12251-12259.	3.8	32
70	Production and Corrosion Resistance of Thermally Sprayed Fe-Based Amorphous Coatings from Mechanically Milled Feedstock Powders. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 4860-4870.	1.1	28
71	Hydrogen storage in MgH2LaNi5 composites prepared by cold rolling under inert atmosphere. International Journal of Hydrogen Energy, 2018, 43, 13348-13355.	3.8	25
72	An alternative route to produce easily activated nanocrystalline TiFe powder. International Journal of Hydrogen Energy, 2018, 43, 16107-16116.	3.8	26

#	Article	IF	Citations
73	Study of Glass Forming on Cu60.0Zr32.5Ti7.5 Alloy by Molecular Dynamics Simulation. Materials Research, 2018, 21, .	0.6	4
74	Effect of Cr addition on the formation of the decagonal quasicrystalline phase of a rapidly solidified Al-Ni-Co alloy. Journal of Alloys and Compounds, 2017, 707, 41-45.	2.8	16
75	On the ternary eutectic reaction in the Fe 60 Cr 8 Nb 8 B 24 quaternary alloy. Journal of Alloys and Compounds, 2017, 707, 281-286.	2.8	2
76	Electrochemical Corrosion Behavior of Spray-Formed Boron-Modified Supermartensitic Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 2077-2089.	1.1	12
77	Hydrogen storage properties of 2Mg-Fe mixtures processed by hot extrusion at different temperatures. International Journal of Hydrogen Energy, 2017, 42, 11493-11500.	3.8	7
78	Experimental and thermodynamic investigation of the microstructural evolution of a boron-rich Fe-Cr-Nb-B alloy. Journal of Alloys and Compounds, 2017, 713, 119-124.	2.8	4
79	Structural, mechanical and thermal characterization of an Al-Co-Fe-Cr alloy for wear and thermal barrier coating applications. Surface and Coatings Technology, 2017, 319, 241-248.	2.2	27
80	Thermodynamic Calculations for the Investigation of Phase Formation in Boron-Modified Ferritic Stainless Steel. Journal of Phase Equilibria and Diffusion, 2017, 38, 343-349.	0.5	8
81	Assessing technological developments in amorphous/glassy metallic alloys using patent indicators. Journal of Alloys and Compounds, 2017, 716, 330-335.	2.8	15
82	Structural characterization and hydrogen storage properties of MgH 2 â€“Mg 2 CoH 5 nanocomposites. International Journal of Hydrogen Energy, 2017, 42, 14593-14601.	3.8	17
83	Investigation by mechanical spectroscopy at different frequencies of the nucleation processes in amorphous Cu-Zr-Al alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 694, 66-71.	2.6	5
84	Microstructure and wear behavior of Fe-based amorphous HVOF coatings produced from commercial precursors. Surface and Coatings Technology, 2017, 309, 938-944.	2.2	92
85	Iron and niobium based additives in magnesium hydride: Microstructure and hydrogen storage properties. International Journal of Hydrogen Energy, 2017, 42, 6810-6819.	3.8	57
86	Processing of MgH2 by extensive cold rolling under protective atmosphere. International Journal of Hydrogen Energy, 2017, 42, 2201-2208.	3.8	16
87	Effect of cold rolling on the structure and hydrogen properties of AZ91 and AM60D magnesium alloys processed by ECAP. International Journal of Hydrogen Energy, 2017, 42, 21822-21831.	3.8	27
88	Insight into the complex ternary phase behavior in Al-Mn-Ce alloys. Journal of Alloys and Compounds, 2017, 727, 460-468.	2.8	14
89	Low temperature rolling of AZ91 alloy for hydrogen storage. International Journal of Hydrogen Energy, 2017, 42, 29394-29405.	3.8	19
90	Predicting the Formation of Intermetallic Phases in the Al-Si-Fe System with Mn Additions. Journal of Phase Equilibria and Diffusion, 2017, 38, 298-304.	0.5	19

#	Article	IF	Citations
91	Effect of dislocations and residual stresses on the martensitic transformation of Cu-Al-Ni-Mn shape memory alloy powders. Journal of Alloys and Compounds, 2017, 723, 841-849.	2.8	10
92	Wear and corrosion properties of HVOF coatings from Superduplex alloy modified with addition of boron. Surface and Coatings Technology, 2017, 309, 911-919.	2.2	24
93	Assessing Collaboration and Knowledge Flow on Coatings of Metallic Glasses Obtained From Thermal Spraying Processes Using Bibliometrics and Science Mapping. Materials Research, 2017, 20, 71-80.	0.6	2
94	Ultrafine-Grained Ti-13Nb-13Zr Alloy Produced by Severe Plastic Deformation. Materials Research, 2017, 20, 404-410.	0.6	9
95	Thermal Spraying Processes and Amorphous Alloys: Macro-Indicators of Patent Activity. Materials Research, 2017, 20, 89-95.	0.6	2
96	Severe Plastic Deformation and Additive Distribution in Mg-Fe to Improve Hydrogen Storage Properties. Materials Research, 2017, 20, 61-70.	0.6	8
97	Enhancement of Mechanical Properties of Aluminum and 2124 Aluminum Alloy by the Addition of Quasicrystalline Phases. Materials Research, 2016, 19, 74-79.	0.6	27
98	Mg-based Nanocomposites for Hydrogen Storage Containing Ti-Cr-V Alloys as Additives. Materials Research, 2016, 19, 80-85.	0.6	19
99	Microstructure formation and abrasive wear resistance of a boron-modified superduplex stainless steel produced by spray forming. Journal of Materials Research, 2016, 31, 2987-2993.	1.2	13
100	Phase transformation and shape memory effect of a Cu-Al-Ni-Mn-Nb high temperature shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 663, 64-68.	2.6	27
101	Laser surface remelting of a Cu-Al-Ni-Mn shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 661, 61-67.	2.6	41
102	Influence of processing parameters on the fabrication of a Cu-Al-Ni-Mn shape-memory alloy by selective laser melting. Additive Manufacturing, 2016, 11, 23-31.	1.7	80
103	Design and production of Al-Mn-Ce alloys with tailored properties. Materials and Design, 2016, 110, 436-448.	3.3	16
104	Mg-Zn-Ca amorphous alloys for application as temporary implant: Effect of Zn content on the mechanical and corrosion properties. Materials and Design, 2016, 110, 188-195.	3.3	41
105	Characterization of hydrogen storage properties of Mg-Fe-CNT composites prepared by ball milling, hot-extrusion and severe plastic deformation methods. International Journal of Hydrogen Energy, 2016, 41, 23092-23098.	3.8	21
106	Microstructural investigation of Fe Cr Nb B amorphous/nanocrystalline coating produced by HVOF. Materials and Design, 2016, 111, 608-615.	3.3	36
107	Assessment of phase constitution on the Al-rich region of rapidly solidified Al-Co-Fe-Cr alloys. Materials Characterization, 2016, 122, 76-82.	1.9	5
108	Wear resistant coatings of boron-modified stainless steels deposited by Plasma Transferred Arc. Surface and Coatings Technology, 2016, 302, 255-264.	2.2	38

#	Article	IF	Citations
109	Severely deformed ZK60Â+Â2.5% Mm alloy for hydrogen storage produced by two different processing routes. International Journal of Hydrogen Energy, 2016, 41, 11284-11292.	3.8	25
110	Hydrogen storage in heavily deformed ZK60 alloy modified with 2.5Âwt.% Mm addition. International Journal of Hydrogen Energy, 2016, 41, 4177-4184.	3.8	23
111	Nanoporous titanium obtained from a spinodally decomposed Ti alloy. Microporous and Mesoporous Materials, 2016, 222, 23-26.	2.2	11
112	Phase Formation, Thermal Stability and Mechanical Properties of a Cu-Al-Ni-Mn Shape Memory Alloy Prepared by Selective Laser Melting. Materials Research, 2015, 18, 35-38.	0.6	36
113	Surface chemical treatment of ultrafine-grained Tiâ€“6Alâ€“7Nb alloy processed by severe plastic deformation. Journal of Alloys and Compounds, 2015, 643, S241-S245.	2.8	19
114	Effects of equal-channel angular pressing and accumulative roll-bonding on hydrogen storage properties of a commercial ZK60 magnesium alloy. International Journal of Hydrogen Energy, 2015, 40, 16971-16976.	3.8	44
115	Residual glass and crystalline phases in a barium disilicate glassâ€“ceramic. Materials Characterization, 2015, 110, 192-196.	1.9	10
116	Reassessment of the effects of Ce on quasicrystal formation and microstructural evolution in rapidly solidified Alâ€“Mn alloys. Acta Materialia, 2015, 98, 221-228.	3.8	35
117	Design of wear resistant boron-modified supermartensitic stainless steel by spray forming process. Materials and Design, 2015, 83, 214-223.	3.3	35
118	Thermodynamic analysis of the effect of annealing on the thermal stability of a Cuâ€“Alâ€“Niâ€“Mn shape memory alloy. Thermochimica Acta, 2015, 608, 1-6.	1.2	29
119	Gene expression of human osteoblasts cells on chemically treated surfaces of Tiâ€“6Alâ€“4Vâ€“ELI. Materials Science and Engineering C, 2015, 51, 248-255.	3.8	38
120	Study on Cu₄₈Zr₄₃Al₉ and Cu₅₄Zr₄₀Al₆ Amorphous Matrix Alloys by Mechanical Spectroscopy. Defect and Diffusion Forum, 2015, 365, 317-322.	0.4	0
121	The effect of oxygen on the microstructural evolution in crystallized Cuâ€“Zrâ€“Al metallic glasses. Intermetallics, 2015, 65, 51-55.	1.8	4
122	Controlled mechanochemical synthesis and hydrogen desorption mechanisms of nanostructured Mg2CoH5. International Journal of Hydrogen Energy, 2015, 40, 1504-1515.	3.8	13
123	Mechanical spectroscopy study on the Cu54Zr40Al6 amorphous matrix alloy at low temperature. Journal of Alloys and Compounds, 2015, 621, 319-323.	2.8	9
124	Electrochemical impedance analysis of TiO2 nanotube porous layers based on an alternative representation of impedance data. Journal of Electroanalytical Chemistry, 2015, 737, 54-64.	1.9	31
125	Hot Consolidation of Partially Amorphous Cu-Ti Based Alloy: a Comparison Between Hot Extrusion and Hot Compaction by Sintering. Materials Research, 2015, 18, 448-452.	0.6	3
126	Exploring several different routes to produce Mg- based nanomaterials for Hydrogen storage. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012115.	0.3	5

#	Article	IF	Citations
127	Microstructure of a recycled AA7050 alloy processed by spray forming followed by hot extrusion and rotary swaging. Materialwissenschaft Und Werkstofftechnik, 2014, 45, 568-573.	0.5	8
128	Correlation between hydrogen storage properties and textures induced in magnesium through ECAP and cold rolling. International Journal of Hydrogen Energy, 2014, 39, 3810-3821.	3.8	63
129	Processing and characterization of amorphous magnesium based alloy for application in biomedical implants. Journal of Materials Research and Technology, 2014, 3, 203-209.	2.6	24
130	MgH2-based nanocomposites prepared by short-time high energy ball milling followed byÂcold rolling: A new processing route. International Journal of Hydrogen Energy, 2014, 39, 4404-4413.	3.8	23
131	Cold rolling under inert atmosphere: A powerful tool for Mg activation. International Journal of Hydrogen Energy, 2014, 39, 4959-4965.	3.8	30
132	Corrosion resistance of Fe-based amorphous alloys. Journal of Alloys and Compounds, 2014, 586, S105-S110.	2.8	90
133	Corrosion properties of Feâ€“Crâ€“Nbâ€“B amorphous alloys and coatings. Surface and Coatings Technology, 2014, 254, 238-243.	2.2	53
134	The role of yttrium and oxygen on the crystallization behavior of a Cuâ€“Zrâ€“Al metallic glass. Journal of Non-Crystalline Solids, 2014, 406, 79-87.	1.5	14
135	Development of Ultrafine-Grained Metals by Equal-Channel Angular Pressing. , 2014, , 187-209.		9
136	Formation of Fe-based glassy matrix composite coatings by laser processing. Surface and Coatings Technology, 2014, 240, 336-343.	2.2	56
137	Spray forming of Cuâ€“11.85Alâ€“3.2Niâ€“3Mn (wt%) shape memory alloy. Journal of Alloys and Compounds, 2014, 615, S602-S606.	2.8	34
138	Hydrogen storage properties of MgH2 processed by cold forging. Journal of Alloys and Compounds, 2014, 615, S719-S724.	2.8	18
139	Hydrogen storage properties of pure Mg after the combined processes of ECAP and cold-rolling. Journal of Alloys and Compounds, 2014, 586, S405-S408.	2.8	40
140	MgH2Â+ÂFeNb nanocomposites for hydrogen storage. Materials Chemistry and Physics, 2014, 147, 557-562.	2.0	25
141	Osteoblasts behavior on chemically treated commercially pure titanium surfaces. Journal of Biomedical Materials Research - Part A, 2014, 102, 1816-1822.	2.1	35
142	Hydrogen storage properties of 2Mgâ€“Fe after the combined processes of hot extrusion and cold rolling. Journal of Alloys and Compounds, 2014, 586, S409-S412.	2.8	14
143	Microstructure Characterization and Kinetics of Crystallization Behavior of Tubular Spray Formed Fe43.2Co28.8B19.2Si4.8Nb4 Bulk Metallic Glass*. HTM - Journal of Heat Treatment and Materials, 2014, 69, 312-321.	0.1	2
144	Microstructure evolution and mechanical properties of Alâ€“Znâ€“Mgâ€“Cu alloy reprocessed by spray-forming and heat treated at peak aged condition. Journal of Alloys and Compounds, 2013, 579, 169-173.	2.8	67

#	Article	IF	Citations
145	An investigation of hydrogen storage in a magnesium-based alloy processed by equal-channel angular pressing. International Journal of Hydrogen Energy, 2013, 38, 8306-8312.	3.8	96
146	Comparative study between two die cast methods for processing Cuâ€“Zrâ€“Al bulk metallic glasses. Journal of Materials Research and Technology, 2013, 2, 125-129.	2.6	6
147	Cold rolling of MgH2 powders containing different additives. International Journal of Hydrogen Energy, 2013, 38, 16193-16198.	3.8	37
148	Microstructure study of Al 7050 alloy reprocessed by spray forming and hot-extrusion and aged at 121ÂÂ°C. Intermetallics, 2013, 43, 182-187.	1.8	25
149	Nanoquasicrystalline Alâ€“Feâ€“Crâ€“Nb alloys produced by powder metallurgy. Journal of Alloys and Compounds, 2013, 577, 650-657.	2.8	24
150	H-sorption properties and structural evolution of Mg processed by severe plastic deformation. Journal of Alloys and Compounds, 2013, 580, S187-S191.	2.8	27
151	Comparative study of nanoindentation on melt-spun ribbon and bulk metallic glass with Ni60Nb37B3 composition. Journal of Materials Research, 2013, 28, 2740-2746.	1.2	7
152	Nanostructured MgH2 obtained by cold rolling combined with short-time high-energy ball milling. Materials Research, 2013, 16, 158-163.	0.6	14
153	Formation reaction of Mg2FeH6: effect of hydrogen absorption/desorption kinetics. Materials Research, 2013, 16, 1373-1378.	0.6	10
154	Corrosion resistance and glass forming ability of Fe47Co7Cr15M9Si5B15Y2 (M=Mo, Nb) amorphous alloys. Materials Research, 2013, 16, 1294-1298.	0.6	5
155	Microstructure and wear resistance of spray-formed supermartensitic stainless steel. Materials Research, 2013, 16, 642-646.	0.6	15
156	Anelastic Relaxation Measurements in Nb-46wt%Ti Alloys with Interstitial Solutes in Solid Solution. Solid State Phenomena, 2012, 184, 92-97.	0.3	2
157	Diffusion of Interstitial Solutes in Nb-46wt% Ti Alloys Measured by Mechanical Spectroscopy. Defect and Diffusion Forum, 2012, 326-328, 708-712.	0.4	3
158	Mechanochemistry and H-sorption properties of Mg2FeH6-based nanocomposites. International Journal of Materials Research, 2012, 103, 1147-1154.	0.1	12
159	Formation and microstructure of Ni62- x Nb38Ti x (x = 3, 6, 10 at.%) bulk metallic glasses. International Journal of Materials Research, 2012, 103, 1096-1101.	0.1	5
160	Synthesis and hydrogen sorption properties of Mg2FeH6â€“MgH2 nanocomposite prepared by reactive milling. Journal of Alloys and Compounds, 2012, 536, S250-S254.	2.8	26
161	A synchrotron X-ray diffraction study of hydrogen storage and enhanced sorption kinetics in a mini-tank of Mg with crystalline and amorphous catalytic particle additions. Journal of Alloys and Compounds, 2012, 540, 57-61.	2.8	6
162	Atomic structure of bulk metallic glasses and their supercooled liquid states probed by high-energy synchrotron light. Comptes Rendus Physique, 2012, 13, 218-226.	0.3	3

#	Article	IF	Citations
163	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
164	Rapid solidification of an Al-5Ni alloy processed by spray forming. Materials Research, 2012, 15, 779-785.	0.6	8
165	The formation of quasicrystal phase in Al-Cu-Fe system by mechanical alloying. Materials Research, 2012, 15, 749-752.	0.6	22
166	Microstructural characterization of Ti-6Al-7Nb alloy after severe plastic deformation. Materials Research, 2012, 15, 786-791.	0.6	15
167	Magnesium-Nickel alloy for hydrogen storage produced by melt spinning followed by cold rolling. Materials Research, 2012, 15, 813-817.	0.6	18
168	Microstructural evolution of Ti-6Al-7Nb alloy during high pressure torsion. Materials Research, 2012, 15, 792-795.	0.6	8
169	Selection of compositions with high glass forming ability in the Ni-Nb-B alloy system. Materials Research, 2012, 15, 718-722.	0.6	0
170	Stability of an amorphous alloy of the Mm-Al-Ni-Cu system. Materials Research, 2012, 15, 757-762.	0.6	2
171	Mechanical spectroscopy study of the Cu36Zr59Al5 and Cu54Zr40Al6 amorphous alloys. Materials Research, 2012, 15, 1070-1074.	0.6	4
172	New Zr-based glass-forming alloys containing Gd and Sm. Materials Research, 2012, 15, 723-727.	0.6	1
173	Processing and microstructural characterization of a Ti-Cr-Nb alloy synthesized by high-energy ball-milling. Materials Research, 2012, 15, 753-756.	0.6	2
174	Microstructure evolution of AA7050 Al alloy during Equal-Channel Angular Pressing. Materials Research, 2012, 15, 732-738.	0.6	3
175	Mg2FeH6-based nanocomposites with high capacity of hydrogen storage processed by reactive milling. Materials Research, 2012, 15, 229-235.	0.6	7
176	Consolidation of the Cu46Zr42Al7Y5 amorphous ribbons and powder alloy by hot extrusion. Materials Research, 2012, 15, 728-738.	0.6	2
177	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.	2.8	19
178	2Mgâ€“Fe and 2Mgâ€“Fe+5%C mixtures processed by hot extrusion: Influence of carbon on hydrogen sorption properties. Journal of Alloys and Compounds, 2011, 509, S464-S467.	2.8	7
179	Ordered phases and texture in spray-formed Feâ€“5wt%Si. Journal of Alloys and Compounds, 2011, 509, S260-S264.	2.8	19
180	Predicting glass-forming compositions in the Alâ€“La and Alâ€“Laâ€“Ni systems. Journal of Alloys and Compounds, 2011, 509, S170-S174.	2.8	6

#	Article	IF	Citations
181	Topological instability and glass forming ability of Alâ€“Niâ€“Sm alloys. Journal of Alloys and Compounds, 2011, 509, S141-S144.	2.8	9
182	Nanostructured MgH2 prepared by cold rolling and cold forging. Journal of Alloys and Compounds, 2011, 509, S444-S448.	2.8	54
183	Amorphous phase formation by spray forming of alloys [(Fe0.6Co0.4)0.75B0.2Si0.05]96Nb4 and Fe66B30Nb4 modified with Ti. Journal of Alloys and Compounds, 2011, 509, S148-S154.	2.8	13
184	Microstructural characterization of high-silicon iron alloys produced by spray forming and co-injection of Si particles. Journal of Alloys and Compounds, 2011, 509, S254-S259.	2.8	7
185	Prediction of good glass formers in the Al-Ni-La and Al-Ni-Gd systems using topological instability and electronegativity. Journal of Applied Physics, 2011, 109, .	1.1	11
186	High Strength AA7050 Al alloy processed by ECAP: Microstructure and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 5804-5811.	2.6	89
187	Strengthening Mechanisms of 27MnSiVS6 Microalloyed Steel Deformed by Four Different Forging Processes. Procedia Engineering, 2011, 10, 512-517.	1.2	6
188	High-Yield Direct Synthesis of Mg₂FeH₆ from the Elements by Reactive Milling. Solid State Phenomena, 2011, 170, 259-262.	0.3	14
189	Mechanical Spectroscopy Study on Cu_{53.5}Zr₄₂Al_{4.5} Alloy. Defect and Diffusion Forum, 2011, 312-315, 1233-1237.	0.4	0
190	Characterization of Glass Forming Alloy Fe_{43.2}Co_{28.8}B_{19.2}Si_{4.8}Nb₄ Processed by Spray Forming and Wedge Mold Casting Techniques. Materials Science Forum, 2011, 691, 23-26.	0.3	7
191	Nanoscale Grain Refinement and Hâ€Sorption Properties of MgH₂ Processed by Highâ€Pressure Torsion and Other Mechanical Routes. Advanced Engineering Materials, 2010, 12, 786-792.	1.6	82
192	Processing of glass former alloys by spray forming. Materialwissenschaft Und Werkstofftechnik, 2010, 41, 513-523.	0.5	9
193	Outâ€ofâ€Plane Magnetic Patterning Based on Indentationâ€Induced Nanocrystallization of a Metallic Glass. Small, 2010, 6, 1543-1549.	5.2	18
194	Hydrogen Sorption Properties of the Complex Hydride Mg₂FeH₆ Consolidated by HPT. Materials Science Forum, 2010, 667-669, 1053-1058.	0.3	3
195	Hydrogen Activation Behavior of Commercial Magnesium Processed by Different Severe Plastic Deformation Routes. Materials Science Forum, 2010, 667-669, 1047-1051.	0.3	15
196	Homogenization of plastic deformation in metallic glass foils less than one micrometer thick. Physical Review B, 2010, 82, .	1.1	34
197	Partial crystallization and corrosion resistance of amorphous Fe-Cr-M-B (M=Mo, Nb) alloys. Journal of Non-Crystalline Solids, 2010, 356, 2651-2657.	1.5	44
198	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

#	Article	IF	Citations
199	Evaluation of glass forming ability in the Niâ€“Nbâ€“Zr alloy system by the topological instability (Î») criterion. Journal of Alloys and Compounds, 2010, 495, 313-315.	2.8	10
200	Laser remelting of Al91Fe4Cr3Ti2 quasicrystalline phase former alloy. Journal of Alloys and Compounds, 2010, 495, 646-649.	2.8	19
201	Glass formation of alloys selected by lambda and electronegativity criteria in the Tiâ€“Zrâ€“Feâ€“Co system. Journal of Alloys and Compounds, 2010, 495, 316-318.	2.8	10
202	Crystallisation behaviour and glass-forming ability in Alâ€“Laâ€“Ni system. Journal of Alloys and Compounds, 2010, 495, 334-337.	2.8	17
203	Microstructural characterization of spray formed Fe66B30Nb4 alloy. Journal of Alloys and Compounds, 2010, 495, 417-419.	2.8	4
204	Microstructure and mechanical properties of Alâ€“Siâ€“Mg ribbons. Journal of Alloys and Compounds, 2010, 495, 386-390.	2.8	18
205	Microstructural characterization and hydrogenation study of extruded MgFe alloy. Journal of Alloys and Compounds, 2010, 504, S299-S301.	2.8	19
206	Mg alloy for hydrogen storage processed by SPD. International Journal of Materials Research, 2009, 100, 1739-1746.	0.1	62
207	Microstructural characterization of a laser remelted coating of Al91Fe4Cr3Ti2 quasicrystalline alloy. Scripta Materialia, 2009, 61, 709-712.	2.6	28
208	Effect of Dislocation Mechanisms during Extrusion of Nanostructured Aluminum Powder Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 3322-3330.	1.1	5
209	Hot Extrusion of Nanostructured Al-Powder Alloys: Grain Growth Control and the Effect of Process Parameters on Their Microstructure and Mechanical Properties. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 3314-3321.	1.1	9
210	Microstructure evolution in copper under severe plastic deformation detected by in situ X-ray diffraction using monochromatic synchrotron light. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 503, 10-13.	2.6	54
211	Selection of new glass-forming compositions in Alâ€“La system using a combination of topological instability and thermodynamic criteria. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 512, 53-57.	2.6	2
212	Topological instability, average electronegativity difference and glass forming ability of amorphous alloys. Intermetallics, 2009, 17, 183-185.	1.8	25
213	Processing of Al matrix composites reinforced with Alâ€“Ni compounds and Al2O3 by reactive milling and reactive sintering. Journal of Alloys and Compounds, 2009, 471, 448-452.	2.8	27
214	Crystallisation behaviours of Al-based metallic glasses: Compositional and topological aspects. Journal of Alloys and Compounds, 2009, 483, 89-93.	2.8	34
215	Severe plastic deformation of Mg-Fe powders to produce bulk hydrides. Journal of Physics: Conference Series, 2009, 144, 012015.	0.3	23
216	Effect of the addition of Mn on the tensile properties of a spray-formed and extruded Al-9Si-4Cu-1Fe alloy. Journal of Physics: Conference Series, 2009, 144, 012114.	0.3	0

#	Article	IF	Citations
217	Pitting Resistance of Al90Fe7Nb3 and Al90Fe7Zr3 Nanocrystalline Alloys Obtained by Melt-Spinning and Hot Extrusion. Portugaliae Electrochimica Acta, 2009, 27, 309-316.	0.4	1
218	Influence of the atomization gas on the microstructure and magnetic properties of spray-formed Feâ€“3%Siâ€“3.5%Al alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 477, 9-14.	2.6	2
219	Magnetic properties of spray-formed Feâ€“6.5%Si and Feâ€“6.5%Siâ€“1.0%Al after rolling and heat treatment. Journal of Magnetism and Magnetic Materials, 2008, 320, e653-e656.	1.0	48
220	Glass transition, thermal expansion and relaxation in B2O3 glass measured by time-resolved X-ray diffraction. Journal of Non-Crystalline Solids, 2008, 354, 325-327.	1.5	13
221	Selection of good glass former compositions in Niâ€“Ti system using a combination of topological instability and thermodynamic criteria. Journal of Non-Crystalline Solids, 2008, 354, 1932-1935.	1.5	12
222	Glass forming ability of the Alâ€“Ceâ€“Ni system. Journal of Non-Crystalline Solids, 2008, 354, 4874-4877.	1.5	37
223	Effects of the addition of SiC on the crystallization of Al84Ni8Co4Y3Zr1 (at.%) amorphous ribbons. Journal of Non-Crystalline Solids, 2008, 354, 4878-4882.	1.5	0
224	Thermodynamic and topological instability approaches for forecasting glass-forming ability in the ternary Alâ€“Niâ€“Y system. Journal of Alloys and Compounds, 2008, 464, 118-121.	2.8	11
225	Topological instability and electronegativity effects on the glass-forming ability of metallic alloys. Philosophical Magazine Letters, 2008, 88, 785-791.	0.5	36
226	Correlation between heat- and deformation-induced crystallization of amorphous Al alloys. Philosophical Magazine Letters, 2008, 88, 863-870.	0.5	7
227	Topological Instability as a Criterion for Design and Selection of Easy Glass-Former Compositions in Cu-Zr Based Systems. Materials Transactions, 2007, 48, 1739-1742.	0.4	29
228	Plasticity induced by nanoparticle dispersions in bulk metallic glasses. Journal of Non-Crystalline Solids, 2007, 353, 327-331.	1.5	76
229	Microstructure and mechanical properties of spray co-deposited Alâ€“8.9wt.% Siâ€“3.2wt.% Cuâ€“0.9wt.% Fe+(Alâ€“3wt.% Mnâ€“4wt.% Si)p composite. Journal of Alloys and Compounds, 2007, 434-435, 371-374.	2.8	11
230	Rapidly solidified Al92Fe3Cr2Mn3 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 1057-1061.	2.6	10
231	Unusual room temperature ductility of glassy copperâ€“zirconium caused by nanoparticle dispersions that grow during shear. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 105-110.	2.6	24
232	Microstructure and mechanical properties of spray deposited and extruded/heat treated hypoeutectic Alâ€“Si alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 850-853.	2.6	19
233	Magnetic properties evaluation of spray formed and rolled Feâ€“6.5wt.% Siâ€“1.0wt.% Al alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 375-377.	2.6	48
234	Spray forming of glass former Fe63Nb10Al4Si3B20 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 884-889.	2.6	23

#	Article	IF	Citations
235	Evolution of the texture of spray-formed Feâ€“6.5wt.% Siâ€“1.0wt.% Al alloy during warm-rolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 854-857.	2.6	28
236	Microstructures and mechanical properties of bulk AlFeNd(Cu,Si) alloys obtained through centrifugal force casting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 452-453, 161-169.	2.6	9
237	Al2O3â€“WC synthesis by high-energy reactive milling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 464, 47-51.	2.6	35
238	In-situ crystallization of amorphous Fe73â^'xNbxAl4Si3B20 alloys through synchrotron radiation. Journal of Non-Crystalline Solids, 2006, 352, 3404-3409.	1.5	12
239	Shear delocalization and crack blunting of a metallic glass containing nanoparticles: In situ deformation in TEM analysis. Scripta Materialia, 2006, 54, 1829-1834.	2.6	112
240	Phase separation and nanocrystallization in Al92Sm8metallic glass. Philosophical Magazine, 2006, 86, 4235-4242.	0.7	11
241	Reduced electronegativity difference as a factor leading to the formation of Al-based glassy alloys with a large supercooled liquid region of 50K. Applied Physics Letters, 2006, 88, 011911.	1.5	34
242	Excess free volume in metallic glasses measured by X-ray diffraction. Acta Materialia, 2005, 53, 1611-1619.	3.8	344
243	Sliding wear of spray-formed high-chromium white cast iron alloys. Wear, 2005, 259, 445-452.	1.5	42
244	Improvement in H-sorption kinetics of MgH powders by using Fe nanoparticles generated by reactive FeF addition. Scripta Materialia, 2005, 52, 719-724.	2.6	174
245	Topological instability as a criterion for design and selection of aluminum-based glass-former alloys. Applied Physics Letters, 2005, 86, 211904.	1.5	72
246	H-sorption in MgH2 nanocomposites containing Fe or Ni with fluorine. Journal of Alloys and Compounds, 2005, 404-406, 409-412.	2.8	73
247	Glass transition Tg, thermal expansion, and quenched-in free volume Î”Vf in pyrex glass measured by time-resolved X-ray diffraction. Journal of Alloys and Compounds, 2005, 388, L1-L3.	2.8	16
248	Improving H-sorption in MgH2 powders by addition of nanoparticles of transition metal fluoride catalysts and mechanical alloying. Journal of Alloys and Compounds, 2005, 389, 270-274.	2.8	60
249	Microstructural Characterization of Spray Formed Al₇₂Si₁₄ Fe₁₄ Alloy. Journal of Metastable and Nanocrystalline Materials, 2004, 20-21, 659-664.	0.1	2
250	Consolidation of Easy Glass Former Zr₅₅Cu₃₀Al₁₀Ni₅ Alloy Ribbons by Severe Plastic Deformation. Journal of Metastable and Nanocrystalline Materials, 2004, 20-21, 253-256.	0.1	1
251	Directional and rapid solidification of Alâ€“Nbâ€“Ni ternary eutectic alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 565-570.	2.6	10
252	Electromechanical shaping, assembly and engraving of bulk metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 227-234.	2.6	14

#	Article	IF	Citations
253	Effect of interstitial impurities on internal friction measurements in niobium. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 370, 131-134.	2.6	7
254	Processing of aluminium alloys containing titanium addition by mechanical alloying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 1201-1205.	2.6	22
255	Spray forming of the glass former Fe83Zr3.5Nb3.5B9Cu1 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 571-576.	2.6	14
256	Microstructure and mechanical properties of spray deposited hypoeutectic Alâ€“Si alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 577-580.	2.6	40
257	Consolidation of partially amorphous aluminium-alloy powders by severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 936-941.	2.6	50
258	Microstructure and wear resistance of spray formed high chromium white cast iron. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 589-594.	2.6	27
259	Structural characterization and dehydrogenation behavior of Mgâ€“5 at.%Nb nano-composite processed by reactive milling. Journal of Alloys and Compounds, 2004, 376, 251-256.	2.8	77
260	Extrusion of nanocomposite Al90Fe5Nd5 powders and characterization of the consolidated material. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 344, 57-63.	2.6	7
261	Synthesis of Al2O3â€“NbC by reactive milling and production of nanocomposites. Journal of Materials Processing Technology, 2003, 143-144, 185-190.	3.1	18
262	Consolidation of Mechanically Alloyed Aluminium Matrix Composite Powders by Severe Plastic Deformation. Journal of Metastable and Nanocrystalline Materials, 2003, 15-16, 307-312.	0.1	3
263	Electromechanical engraving and writing on bulk metallic glasses. Applied Physics Letters, 2002, 81, 1606-1608.	1.5	7
264	FeNiB-based metallic glasses with fcc crystallisation products. Journal of Non-Crystalline Solids, 2002, 304, 44-50.	1.5	17
265	Phases formed during crystallization of Zr55Al10Ni5Cu30 metallic glass containing oxygen. Journal of Non-Crystalline Solids, 2002, 304, 51-55.	1.5	25
266	Reaction sintering of titanium carbide and titanium silicide prepared by high-energy milling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 336, 202-208.	2.6	38
267	Amorphous phase formation during spray forming of Al84Y3Ni8Co4Zr1 alloy. Journal of Non-Crystalline Solids, 2001, 284, 134-138.	1.5	30
268	Metastable phases in Zr-based bulk glass-forming alloys detected using a synchrotron beam in transmission. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 34-38.	2.6	37
269	Crystallization behavior of amorphous Al84Y9Ni5Co2 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 332-337.	2.6	33
270	Amorphous and nanostructured Alâ€“Feâ€“Nd powders obtained by gas atomization. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 315, 89-97.	2.6	20

#	Article	IF	Citations
271	Metastable phases, quasicrystals and solid solutions in Zr-based bulk glass-forming alloys. Scripta Materialia, 2001, 44, 1239-1244.	2.6	15
272	Amorphous phase formation in spray deposited AlYNiCo and AlYNiCoZr alloys. Scripta Materialia, 2001, 44, 1625-1628.	2.6	35
273	Nanostructured composites obtained by reactive milling. Scripta Materialia, 2001, 44, 1735-1740.	2.6	49
274	On the B2 â†' fcc transformation of Feâ€“Rh during deformation. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2000, 80, 1779-1793.	0.8	3
275	Shaping of Bulk Metallic Glasses by Simultaneous Application of Electrical Current and Low Stress. Materials Research Society Symposia Proceedings, 2000, 644, 12201.	0.1	6
276	Application of mathematical simulation and the factorial design method to the optimization of the atomization stage in the spray forming of a Cuâ€“6% Zn alloy. Journal of Materials Processing Technology, 2000, 102, 221-229.	3.1	22
277	Heat treatment of amorphous Al90Fe5Nd5 and Al88FeNi6Nd5 alloys. Journal of Non-Crystalline Solids, 2000, 273, 266-270.	1.5	14
278	Amorphous phase formation in Fe-6.0wt%Si alloy by mechanical alloying. Scripta Materialia, 1999, 42, 213-217.	2.6	20
279	Crystallization of Fe-based amorphous alloys. Journal of Non-Crystalline Solids, 1999, 247, 19-25.	1.5	27
280	In situ crystallization of Zr55Cu30Al10Ni5 bulk glass forming from the glassy and undercooled liquid states using synchrotron radiation. Journal of Non-Crystalline Solids, 1999, 247, 31-34.	1.5	25
281	A model for rotation toughening in a crystal with diamond structure. Computational Materials Science, 1996, 6, 77-80.	1.4	0
282	Anelastic relaxation due to Oî—¸H pairs in Nbî—¸Zr alloys. Journal of Alloys and Compounds, 1994, 211-212, 226-228.	2.8	3
283	Anelastic behaviour in Nbî—¸Ti alloys containing interstitial elements. Journal of Alloys and Compounds, 1994, 211-212, 37-40.	2.8	22
284	A ceramic matrix composite obtained by highly exothermic reaction. Journal of the European Ceramic Society, 1992, 9, 67-73.	2.8	3
285	Thermodynamic predictions for the formation of ceramic-metal composite by self-propagating high-temperature synthesis. Journal of Materials Science Letters, 1991, 10, 819-823.	0.5	18
286	Mechanical multiple relaxation spectra in Nbî—¸Zeî—¸O alloys. Acta Metallurgica Et Materialia, 1990, 38, 391-396.	1.9	18
287	The deformation of Nbâ€“N single crystals at low temperatures. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1989, 60, 205-225.	0.8	5
288	The deformation of a model metal-ceramic material; Nb-ZrO2single crystals. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1989, 59, 603-628.	0.8	1

#	Article	IF	Citations
289	The deformation of a model metal-ceramic material: Nb-ZrO2single crystals. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1989, 59, 581-601.	0.8	1
290	Solution hardening and softening of Nb-Zr single crystals. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1988, 57, 703-716.	0.8	9
291	Structure and orientation of zirconia in a niobium metal matrix. Acta Metallurgica, 1985, 33, 477-486.	2.1	5
292	2Mg-Fe Alloy Processed by Hot Extrusion: Influence of Particle Size and Extrusion Reduction Ratio on Hydrogenation Properties. Materials Science Forum, 0, 691, 3-9.	0.3	2
293	Structural Comparison of Amorphous, Nanocrystalline and Microcrystalline Al₉₀Fe₇Nb₃ Alloys. Materials Science Forum, 0, 727-728, 3-8.	0.3	1
294	Overspray Powder Characterization of Fe-Based Glassy Alloy. Materials Science Forum, 0, 727-728, 468-475.	0.3	3
295	Reactive Milling of Magnesium under Hydrogen Using Transition Metals and their Fluorides as Additives. Solid State Phenomena, 0, 194, 232-236.	0.3	6
296	Atomization and Selective Laser Melting of a Cu-Al-Ni-Mn Shape Memory Alloy. Materials Science Forum, 0, 802, 343-348.	0.3	33
297	Synthesis by High-Energy Ball Milling of MgH₂-TiFe Composites for Hydrogen Storage. Materials Science Forum, 0, 899, 13-18.	0.3	6
298	Characterization of Atomized Powders and Extruded Samples of an Al-Si-Cu Alloy. Materials Science Forum, 0, 899, 442-447.	0.3	0
299	Magnesium Alloys for Hydrogen Storage Processed by ECAP Followed by Low Temperature Rolling. Materials Research, 0, 25, .	0.6	5