Claudio Shyinti Kiminami

List of Publications by Year
in descending order

284	4,632	109137	214527
papers	citations	35 h-index	47 g-index

291	291	291	2906
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Corrosion resistance of Fe-Cr-based amorphous alloys: An overview. Journal of Non-Crystalline Solids, 2016, 442, 56-66.	1.5	163
2	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
3	Corrosion resistance of Fe-based amorphous alloys. Journal of Alloys and Compounds, 2014, 586, S105-S110.	2.8	90
4	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
5	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
6	Topological instability as a criterion for design and selection of aluminum-based glass-former alloys. Applied Physics Letters, 2005, 86, 211904.	1.5	72
7	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
8	High Throughput Discovery and Design of Strong Multicomponent Metallic Solid Solutions. Scientific Reports, 2018, 8, 8600.	1.6	67
9	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
10	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
11	Formation of Fe-based glassy matrix composite coatings by laser processing. Surface and Coatings Technology, 2014, 240, 336-343.	2.2	56
12	Nanostructured MgH2 prepared by cold rolling and cold forging. Journal of Alloys and Compounds, 2011, 509, S444-S448.	2.8	54
13	Corrosion properties of Feâ€“Crâ€“Nbâ€“B amorphous alloys and coatings. Surface and Coatings Technology, 2014, 254, 238-243.	2.2	53
14	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
15	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
16	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
17	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
18	Corrosion resistance of amorphous and polycrystalline FeCuNbSiB alloys in sulphuric acid solution. Journal of Non-Crystalline Solids, 1999, 247, 69-73.	1.5	43

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19	Sliding wear of spray-formed high-chromium white cast iron alloys. Wear, 2005, 259, 445-452.	1.5	42
20	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
21	Corrosion and wear properties of FeCrMnCoSi HVOF coatings. Surface and Coatings Technology, 2019, 357, 993-1003.	2.2	42
22	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
23	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
24	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
25	Kinetics of crystal nucleation and growth in Pd77.5Cu6Si16.5 glass. Acta Metallurgica, 1986, 34, 2129-2137.	2.1	40
26	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
27	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
28	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
29	Crystallization and corrosion resistance of amorphous FeCuNbSiB. Journal of Non-Crystalline Solids, 1997, 219, 155-159.	1.5	39
30	Wear resistant coatings of boron-modified stainless steels deposited by Plasma Transferred Arc. Surface and Coatings Technology, 2016, 302, 255-264.	2.2	38
31	Glass forming ability of the Alâ€"Ceâ€"Ni system. Journal of Non-Crystalline Solids, 2008, 354, 4874-4877.	1.5	37
32	Topological instability and electronegativity effects on the glass-forming ability of metallic alloys. Philosophical Magazine Letters, 2008, 88, 785-791.	0.5	36
33	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
34	Microstructural investigation of Fe Cr Nb B amorphous/nanocrystalline coating produced by HVOF. Materials and Design, 2016, 111, 608-615.	3.3	36
35	Corrosion properties of amorphous, partially, and fully crystallized Fe68Cr8Mo4Nb4B16 alloy. Journal of Alloys and Compounds, 2020, 826, 154123.	2.8	36
36	Phases formed during crystallization of amorphous Al84Y9Ni5Co2 alloy. Journal of Non-Crystalline Solids, 2000, 273, 271-276.	1.5	35

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37	Amorphous phase formation in spray deposited AlYNiCo and AlYNiCoZr alloys. Scripta Materialia, 2001, 44, 1625-1628.	2.6	35
38	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
39	Design of wear resistant boron-modified supermartensitic stainless steel by spray forming process. Materials and Design, 2015, 83, 214-223.	3.3	35
40	Crystallisation behaviours of Al-based metallic glasses: Compositional and topological aspects. Journal of Alloys and Compounds, 2009, 483, 89-93.	2.8	34
41	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
42	Crystallization behavior of amorphous Al84Y9Ni5Co2 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 332-337.	2.6	33
43	Atomization and Selective Laser Melting of a Cu-Al-Ni-Mn Shape Memory Alloy. Materials Science Forum, 0, 802, 343-348.	0.3	33
44	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
45	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
46	Influence of the corrosion on the saturation magnetic density of amorphous and nanocrystalline Fe73Nb3Si15.5B7.5Cu1 and Fe80Zr3.5Nb3.5B12Cu1 alloys. Journal of Non-Crystalline Solids, 2002, 304, 210-216.	1.5	31
47	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
48	Amorphous phase formation during spray forming of Al84Y3Ni8Co4Zr1 alloy. Journal of Non-Crystalline Solids, 2001, 284, 134-138.	1.5	30
49	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
50	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
51	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
52	Microstructural characterization of a laser remelted coating of Al91Fe4Cr3Ti2 quasicrystalline alloy. Scripta Materialia, 2009, 61, 709-712.	2.6	28
53	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
54	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

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55	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
56	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
57	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
58	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
59	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
60	Fabrication of Al-matrix composite reinforced with quasicrystals using conventional metallurgical fabrication methods. Scripta Materialia, 2019, 173, 21-25.	2.6	26
61	Phases formed during crystallization of Zr55Al10Ni5Cu30 metallic glass containing oxygen. Journal of Non-Crystalline Solids, 2002, 304, 51-55.	1.5	25
62	Topological instability, average electronegativity difference and glass forming ability of amorphous alloys. Intermetallics, 2009, 17, 183-185.	1.8	25
63	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
64	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
65	Hydrogen storage in MgH2LaNi5 composites prepared by cold rolling under inert atmosphere. International Journal of Hydrogen Energy, 2018, 43, 13348-13355.	3.8	25
66	Challenges in the Development of Aluminium-Based Bulk Amorphous Alloys. Key Engineering Materials, 2001, 189-191, 503-508.	0.4	24
67	Nanoquasicrystalline Alâ€“Feâ€“Crâ€“Nb alloys produced by powder metallurgy. Journal of Alloys and Compounds, 2013, 577, 650-657.	2.8	24
68	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
69	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
70	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
71	Processing a biocompatible Tiâ€“35Nbâ€“7Zrâ€“5Ta alloy by selective laser melting. Journal of Materials Research, 2020, 35, 1143-1153.	1.2	24
72	Single step fabrication by spray forming of large volume Al-based composites reinforced with quasicrystals. Scripta Materialia, 2020, 181, 86-91.	2.6	24

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73	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
74	Severe plastic deformation of Mg-Fe powders to produce bulk hydrides. Journal of Physics: Conference Series, 2009, 144, 012015.	0.3	23
75	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
76	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
77	Wear-resistant boride reinforced steel coatings produced by non-vacuum electron beam cladding. Surface and Coatings Technology, 2020, 386, 125466.	2.2	22
78	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
79	Amorphous phase formation in Fe-6.0wt%Si alloy by mechanical alloying. Scripta Materialia, 1999, 42, 213-217.	2.6	20
80	Influence of composition and partial crystallization on corrosion resistance of amorphous Feâ€“Mâ€“Bâ€“Cu (M=Zr, Nb, Mo) alloys. Journal of Non-Crystalline Solids, 2001, 284, 99-104.	1.5	20
81	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
82	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
83	Laser remelting of Al91Fe4Cr3Ti2 quasicrystalline phase former alloy. Journal of Alloys and Compounds, 2010, 495, 646-649.	2.8	19
84	Microstructural characterization and hydrogenation study of extruded MgFe alloy. Journal of Alloys and Compounds, 2010, 504, S299-S301.	2.8	19
85	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
86	Ordered phases and texture in spray-formed Feâ€“5wt%Si. Journal of Alloys and Compounds, 2011, 509, S260-S264.	2.8	19
87	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
88	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
89	Design of a FeMnAlC steel with TWIP effect and evaluation of its tensile and fatigue properties. Journal of Alloys and Compounds, 2020, 831, 154806.	2.8	19
90	An amorphous core transformer: design and experimental performance. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 1079-1082.	2.6	18

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91	Outâ€ofâ€Plane Magnetic Patterning Based on Indentationâ€Induced Nanocrystallization of a Metallic Glass. Small, 2010, 6, 1543-1549.	5.2	18
92	Microstructure and mechanical properties of Alâ€“Siâ€“Mg ribbons. Journal of Alloys and Compounds, 2010, 495, 386-390.	2.8	18
93	Improving the glass-forming ability and plasticity of a TiCu-based bulk metallic glass composite by minor additions of Si. Journal of Alloys and Compounds, 2016, 663, 531-539.	2.8	18
94	Characterization and Corrosion Resistance of Boron-Containing-Austenitic Stainless Steels Produced by Rapid Solidification Techniques. Materials, 2018, 11, 2189.	1.3	18
95	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
96	Phase transformation in Nbâ”16 at.% Si processed by high-energy ball milling. Journal of Non-Crystalline Solids, 1997, 219, 170-175.	1.5	17
97	Growth and microstructural characterization of SnSe-SnSe2 composite. Journal of Materials Science, 1999, 34, 4607-4612.	1.7	17
98	Primary crystallization in amorphous Al84Ni8Co4Y3Zr1 alloy. Journal of Non-Crystalline Solids, 2002, 304, 36-43.	1.5	17
99	Crystallisation behaviour and glass-forming ability in Alâ€“Laâ€“Ni system. Journal of Alloys and Compounds, 2010, 495, 334-337.	2.8	17
100	Design and in-situ characterization of a strong and ductile co-rich multicomponent alloy with transformation induced plasticity. Scripta Materialia, 2019, 173, 70-74.	2.6	17
101	Formation and stability of complex metallic phases including quasicrystals explored through combinatorial methods. Scientific Reports, 2019, 9, 7136.	1.6	17
102	Design and production of Al-Mn-Ce alloys with tailored properties. Materials and Design, 2016, 110, 436-448.	3.3	16
103	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
104	Processing of MgH2 by extensive cold rolling under protective atmosphere. International Journal of Hydrogen Energy, 2017, 42, 2201-2208.	3.8	16
105	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
106	Undercoolability of copper bulk samples. Journal of Materials Science Letters, 1989, 8, 1416-1417.	0.5	15
107	Microstructure of under-cooled Snâ€“Bi and Alâ€“Si alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 473-478.	2.6	15
108	Microstructure and Magnetic Properties of Fe-6.5wt%Si Alloy Obtained by Spray Forming Process. Materials Science Forum, 2005, 498-499, 111-118.	0.3	15

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109	Hydrogen Activation Behavior of Commercial Magnesium Processed by Different Severe Plastic Deformation Routes. Materials Science Forum, 2010, 667-669, 1047-1051.	0.3	15
110	Microstructural characterization of Ti-6Al-7Nb alloy after severe plastic deformation. Materials Research, 2012, 15, 786-791.	0.6	15
111	Assessing technological developments in amorphous/glassy metallic alloys using patent indicators. Journal of Alloys and Compounds, 2017, 716, 330-335.	2.8	15
112	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
113	Designing new quasicrystalline compositions in Al-based alloys. Journal of Alloys and Compounds, 2020, 823, 153765.	2.8	15
114	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
115	Microstructure and wear resistance of spray-formed supermartensitic stainless steel. Materials Research, 2013, 16, 642-646.	0.6	15
116	Consolidation of Partially Amorphous Al-Fe-Zr Alloys. Materials Science Forum, 2002, 386-388, 33-38.	0.3	14
117	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
118	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
119	Microstructure and metastable phase formation in a rapidly solidified Niâ€“Si eutectic alloy using a melt-spinning technique. Journal of Alloys and Compounds, 2004, 381, 72-76.	2.8	14
120	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
121	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
122	Insight into the complex ternary phase behavior in Al-Mn-Ce alloys. Journal of Alloys and Compounds, 2017, 727, 460-468.	2.8	14
123	Wear Resistant Duplex Stainless Steels Produced by Spray Forming. Metals and Materials International, 2019, 25, 456-464.	1.8	14
124	Corrosion resistant and tough multi-principal element Cr-Co-Ni alloys. Journal of Alloys and Compounds, 2021, 884, 161107.	2.8	14
125	Microstructure of undercooled Pbâ€“Sn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 255-261.	2.6	13
126	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

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127	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
128	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
129	In-situ crystallization of amorphous Fe73â^'xNbxAl4Si3B20 alloys through synchrotron radiation. Journal of Non-Crystalline Solids, 2006, 352, 3404-3409.	1.5	12
130	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
131	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
132	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
133	Ultrafine eutectic coatings from Fe-Nb-B powder using laser cladding. Materials Characterization, 2020, 160, 110080.	1.9	12
134	Characterization, corrosion resistance and hardness of rapidly solidified Niâ€“Nb alloys. Journal of Alloys and Compounds, 2020, 829, 154529.	2.8	12
135	Effect of oxide particles on the crystallisation behaviour of Zr55Al10Ni5Cu30 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 665-669.	2.6	11
136	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
137	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
138	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
139	An assessment of microstructure and properties of laser clad coatings of ultrafine eutectic Î² Ti-Fe-Nb-Sn composite for implants. Surface and Coatings Technology, 2017, 328, 161-171.	2.2	11
140	On the valence electron theory to estimate the transformation temperatures of Cuâ€“Al-based shape memory alloys. Journal of Materials Research, 2017, 32, 3165-3174.	1.2	11
141	Comparison of Cuâ€“Alâ€“Niâ€“Mnâ€“Zr shape memory alloy prepared by selective laser melting and conventional powder metallurgy. Transactions of Nonferrous Metals Society of China, 2020, 30, 3322-3332.	1.7	11
142	Reactive Milling and Sintering of Nb-16at.% Si Mixtures. Materials Science Forum, 1997, 235-238, 151-156.	0.3	10
143	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
144	Rapidly solidified Al92Fe3Cr2Mn3 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 1057-1061.	2.6	10

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145	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
146	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
147	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
148	Oligocrystalline microstructure in an additively manufactured biocompatible Ti-Nb-Zr-Ta alloy. Materials Letters, 2020, 262, 127149.	1.3	10
149	Effects of pressure on the solidification of Alâ€“Mn alloy. Journal of Materials Research, 2001, 16, 910-913.	1.2	9
150	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
151	Processing of glass former alloys by spray forming. Materialwissenschaft Und Werkstofftechnik, 2010, 41, 513-523.	0.5	9
152	Topological instability and glass forming ability of Alâ€“Niâ€“Sm alloys. Journal of Alloys and Compounds, 2011, 509, S141-S144.	2.8	9
153	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
154	Ultrafine-Grained Ti-13Nb-13Zr Alloy Produced by Severe Plastic Deformation. Materials Research, 2017, 20, 404-410.	0.6	9
155	Metallic Glass Formation Upon Rapid Solidification of Fe60Cr8Nb8B24 (at%) Alloy through LASER Cladding and Remelting. Materials Research, 2017, 20, 580-587.	0.6	9
156	Resistance upset welding of Zr-based bulk metallic glasses. Journal of Materials Processing Technology, 2018, 255, 760-764.	3.1	9
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