

# Claudio Shyinti Kiminami

## List of Publications by Citations

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280  
papers

3,525  
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30  
h-index

40  
g-index

291  
ext. papers

4,034  
ext. citations

3.3  
avg, IF

5.45  
L-index

#	Paper	IF	Citations
280	Corrosion resistance of Fe-Cr-based amorphous alloys: An overview. <i>Journal of Non-Crystalline Solids</i> , <b>2016</b> , 442, 56-66	3.9	109
279	Nanoscale Grain Refinement and H-Sorption Properties of MgH <sub>2</sub> Processed by High-Pressure Torsion and Other Mechanical Routes. <i>Advanced Engineering Materials</i> , <b>2010</b> , 12, 786-792	3.5	70
278	Topological instability as a criterion for design and selection of aluminum-based glass-former alloys. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 211904	3.4	68
277	Corrosion resistance of Fe-based amorphous alloys. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 586, S105-S110	3.0	65
276	Microstructure and wear behavior of Fe-based amorphous HVOF coatings produced from commercial precursors. <i>Surface and Coatings Technology</i> , <b>2017</b> , 309, 938-944	4.4	64
275	Influence of processing parameters on the fabrication of a Cu-Al-Ni-Mn shape-memory alloy by selective laser melting. <i>Additive Manufacturing</i> , <b>2016</b> , 11, 23-31	6.1	61
274	Microstructure evolution and mechanical properties of Al <sub>70</sub> Ni <sub>10</sub> Mg <sub>10</sub> Cu alloy reprocessed by spray-forming and heat treated at peak aged condition. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 579, 169-173	5.7	56
273	Correlation between hydrogen storage properties and textures induced in magnesium through ECAP and cold rolling. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 3810-3821	6.7	49
272	Nanostructured MgH <sub>2</sub> prepared by cold rolling and cold forging. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, S444-S448	5.7	47
271	Consolidation of partially amorphous aluminium-alloy powders by severe plastic deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 375-377, 936-941	5.3	47
270	Corrosion properties of Fe <sub>70</sub> Cr <sub>10</sub> Nb <sub>10</sub> B amorphous alloys and coatings. <i>Surface and Coatings Technology</i> , <b>2014</b> , 254, 238-243	4.4	42
269	Corrosion resistance of amorphous and polycrystalline FeCuNbSiB alloys in sulphuric acid solution. <i>Journal of Non-Crystalline Solids</i> , <b>1999</b> , 247, 69-73	3.9	40
268	Mechanical activation of TiFe for hydrogen storage by cold rolling under inert atmosphere. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 2913-2918	6.7	39
267	Formation of Fe-based glassy matrix composite coatings by laser processing. <i>Surface and Coatings Technology</i> , <b>2014</b> , 240, 336-343	4.4	39
266	Magnetic properties of spray-formed Fe <sub>85</sub> .5%Si and Fe <sub>85</sub> .5%Si <sub>10</sub> .0%Al after rolling and heat treatment. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2008</b> , 320, e653-e656	2.8	39
265	Magnetic properties evaluation of spray formed and rolled Fe <sub>85</sub> .5wt.% Si <sub>10</sub> .0wt.% Al alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 375-377	5.3	38
264	Microstructure and mechanical properties of spray deposited hypoeutectic Al <sub>85</sub> Bi alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 375-377, 577-580	5.3	37

263	Sliding wear of spray-formed high-chromium white cast iron alloys. <i>Wear</i> , <b>2005</b> , 259, 445-452	3.5	37
262	Hydrogen storage properties of pure Mg after the combined processes of ECAP and cold-rolling. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 586, S405-S408	5.7	36
261	High Throughput Discovery and Design of Strong Multicomponent Metallic Solid Solutions. <i>Scientific Reports</i> , <b>2018</b> , 8, 8600	4.9	36
260	Crystallization and corrosion resistance of amorphous FeCuNbSiB. <i>Journal of Non-Crystalline Solids</i> , <b>1997</b> , 219, 155-159	3.9	35
259	Topological instability and electronegativity effects on the glass-forming ability of metallic alloys. <i>Philosophical Magazine Letters</i> , <b>2008</b> , 88, 785-791	1	35
258	Glass forming ability of the Al <sub>70</sub> Fe <sub>10</sub> Ni <sub>20</sub> system. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 4874-4877	3.9	34
257	Kinetics of crystal nucleation and growth in Pd <sub>77.5</sub> Cu <sub>6</sub> Si <sub>16.5</sub> glass. <i>Acta Metallurgica</i> , <b>1986</b> , 34, 2129-2137		34
256	Reassessment of the effects of Ce on quasicrystal formation and microstructural evolution in rapidly solidified AlMn alloys. <i>Acta Materialia</i> , <b>2015</b> , 98, 221-228	8.4	33
255	Partial crystallization and corrosion resistance of amorphous Fe-Cr-M-B (M = Mo, Nb) alloys. <i>Journal of Non-Crystalline Solids</i> , <b>2010</b> , 356, 2651-2657	3.9	32
254	Phases formed during crystallization of amorphous Al <sub>84</sub> Y <sub>9</sub> Ni <sub>5</sub> Co <sub>2</sub> alloy. <i>Journal of Non-Crystalline Solids</i> , <b>2000</b> , 273, 271-276	3.9	31
253	Corrosion and wear properties of FeCrMnCoSi HVOF coatings. <i>Surface and Coatings Technology</i> , <b>2019</b> , 357, 993-1003	4.4	31
252	Crystallisation behaviours of Al-based metallic glasses: Compositional and topological aspects. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 483, 89-93	5.7	30
251	Crystallization behavior of amorphous Al <sub>84</sub> Y <sub>9</sub> Ni <sub>5</sub> Co <sub>2</sub> alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 304-306, 332-337	5.3	30
250	Amorphous phase formation in spray deposited AlNiCo and AlNiCoZr alloys. <i>Scripta Materialia</i> , <b>2001</b> , 44, 1625-1628	5.6	30
249	Mg-Zn-Ca amorphous alloys for application as temporary implant: Effect of Zn content on the mechanical and corrosion properties. <i>Materials and Design</i> , <b>2016</b> , 110, 188-195	8.1	30
248	Design of wear resistant boron-modified supermartensitic stainless steel by spray forming process. <i>Materials and Design</i> , <b>2015</b> , 83, 214-223	8.1	29
247	Wear resistant coatings of boron-modified stainless steels deposited by Plasma Transferred Arc. <i>Surface and Coatings Technology</i> , <b>2016</b> , 302, 255-264	4.4	29
246	Topological Instability as a Criterion for Design and Selection of Easy Glass-Former Compositions in Cu-Zr Based Systems. <i>Materials Transactions</i> , <b>2007</b> , 48, 1739-1742	1.3	29

245	Laser surface remelting of a Cu-Al-Ni-Mn shape memory alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 661, 61-67	5.3	29
244	Microstructural investigation of FeCrNbB amorphous/nanocrystalline coating produced by HVOF. <i>Materials and Design</i> , <b>2016</b> , 111, 608-615	8.1	28
243	Amorphous phase formation during spray forming of Al <sub>84</sub> Y <sub>3</sub> Ni <sub>8</sub> Co <sub>4</sub> Zr <sub>1</sub> alloy. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 284, 134-138	3.9	28
242	Spray forming of Cu <sub>1</sub> 1.85Al <sub>1</sub> .2Ni <sub>1</sub> Mn (wt%) shape memory alloy. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 615, S602-S606	5.7	27
241	Phase Formation, Thermal Stability and Mechanical Properties of a Cu-Al-Ni-Mn Shape Memory Alloy Prepared by Selective Laser Melting. <i>Materials Research</i> , <b>2015</b> , 18, 35-38	1.5	27
240	Degradation of biodegradable implants: The influence of microstructure and composition of Mg-Zn-Ca alloys. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 774, 168-181	5.7	27
239	Formation, stability and ultrahigh strength of novel nanostructured alloys by partial crystallization of high-entropy (Fe <sub>0.25</sub> Co <sub>0.25</sub> Ni <sub>0.25</sub> Cr <sub>0.125</sub> Mo <sub>0.125</sub> ) <sub>86-89</sub> B <sub>11-14</sub> amorphous phase. <i>Acta Materialia</i> , <b>2019</b> , 170, 50-61	8.4	25
238	Thermodynamic analysis of the effect of annealing on the thermal stability of a Cu <sub>1</sub> Al <sub>1</sub> Ni <sub>1</sub> Mn shape memory alloy. <i>Thermochimica Acta</i> , <b>2015</b> , 608, 1-6	2.9	25
237	Atomization and Selective Laser Melting of a Cu-Al-Ni-Mn Shape Memory Alloy. <i>Materials Science Forum</i> , <b>2014</b> , 802, 343-348	0.4	25
236	Influence of the corrosion on the saturation magnetic density of amorphous and nanocrystalline Fe <sub>73</sub> Nb <sub>3</sub> Si <sub>15.5</sub> B <sub>7.5</sub> Cu <sub>1</sub> and Fe <sub>80</sub> Zr <sub>3.5</sub> Nb <sub>3.5</sub> B <sub>12</sub> Cu <sub>1</sub> alloys. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 304, 210-216	3.9	25
235	Topological instability, average electronegativity difference and glass forming ability of amorphous alloys. <i>Intermetallics</i> , <b>2009</b> , 17, 183-185	3.5	24
234	Evolution of the texture of spray-formed Fe <sub>85</sub> wt.% Si <sub>10</sub> wt.% Al alloy during warm-rolling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 854-857	5.3	24
233	Phases formed during crystallization of Zr <sub>55</sub> Al <sub>10</sub> Ni <sub>5</sub> Cu <sub>30</sub> metallic glass containing oxygen. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 304, 51-55	3.9	24
232	Phase transformation and shape memory effect of a Cu-Al-Ni-Mn-Nb high temperature shape memory alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 663, 64-68	5.3	24
231	Processing of Al matrix composites reinforced with Al <sub>3</sub> Ni compounds and Al <sub>2</sub> O <sub>3</sub> by reactive milling and reactive sintering. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 471, 448-452	5.7	23
230	Microstructure and wear resistance of spray formed high chromium white cast iron. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 375-377, 589-594	5.3	23
229	Challenges in the Development of Aluminium-Based Bulk Amorphous Alloys. <i>Key Engineering Materials</i> , <b>2001</b> , 189-191, 503-508	0.4	23
228	Production and Corrosion Resistance of Thermally Sprayed Fe-Based Amorphous Coatings from Mechanically Milled Feedstock Powders. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2018</b> , 49, 4860-4870	2.3	23

227	Microstructure study of Al 7050 alloy reprocessed by spray forming and hot-extrusion and aged at 121°C. <i>Intermetallics</i> , <b>2013</b> , 43, 182-187	3.5	22
226	Structural, mechanical and thermal characterization of an Al-Co-Fe-Cr alloy for wear and thermal barrier coating applications. <i>Surface and Coatings Technology</i> , <b>2017</b> , 319, 241-248	4.4	21
225	Severely deformed ZK60+2.5% Mm alloy for hydrogen storage produced by two different processing routes. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 11284-11292	6.7	21
224	Processing and characterization of amorphous magnesium based alloy for application in biomedical implants. <i>Journal of Materials Research and Technology</i> , <b>2014</b> , 3, 203-209	5.5	21
223	Microstructural characterization of a laser remelted coating of Al91Fe4Cr3Ti2 quasicrystalline alloy. <i>Scripta Materialia</i> , <b>2009</b> , 61, 709-712	5.6	21
222	Spray forming of glass former Fe63Nb10Al4Si3B20 alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 884-889	5.3	21
221	Fabrication of Al-matrix composite reinforced with quasicrystals using conventional metallurgical fabrication methods. <i>Scripta Materialia</i> , <b>2019</b> , 173, 21-25	5.6	20
220	Nanoquasicrystalline AlBeCrNb alloys produced by powder metallurgy. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 577, 650-657	5.7	20
219	Severe plastic deformation of Mg-Fe powders to produce bulk hydrides. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 144, 012015	0.3	20
218	Application of mathematical simulation and the factorial design method to the optimization of the atomization stage in the spray forming of a Cu8% Zn alloy. <i>Journal of Materials Processing Technology</i> , <b>2000</b> , 102, 221-229	5.3	20
217	Enhancement of Mechanical Properties of Aluminum and 2124 Aluminum Alloy by the Addition of Quasicrystalline Phases. <i>Materials Research</i> , <b>2016</b> , 19, 74-79	1.5	20
216	Effect of boron addition on the solidification sequence and microstructure of AlCoCrFeNi alloys. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 775, 1235-1243	5.7	20
215	2MgBe alloys processed by hot-extrusion: Influence of processing temperature and the presence of MgO and MgH <sub>2</sub> on hydrogenation sorption properties. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, S460-S463	5.7	19
214	Amorphous phase formation in Fe-6.0wt%Si alloy by mechanical alloying. <i>Scripta Materialia</i> , <b>1999</b> , 42, 213-217	5.6	19
213	The formation of quasicrystals in Al-Cu-Fe-(M=Cr,Ni) melt-spun ribbons. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 731, 1288-1294	5.7	18
212	Microstructure and mechanical properties of spray deposited and extruded/heat treated hypoeutectic AlBi alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 850-853	5.3	18
211	Corrosion properties of amorphous, partially, and fully crystallized Fe68Cr8Mo4Nb4B16 alloy. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 826, 154123	5.7	17
210	Wear and corrosion properties of HVOF coatings from Superduplex alloy modified with addition of boron. <i>Surface and Coatings Technology</i> , <b>2017</b> , 309, 911-919	4.4	17

209	Microstructure and mechanical properties of AlSiMg ribbons. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 495, 386-390	5.7	17
208	Influence of composition and partial crystallization on corrosion resistance of amorphous FeMBCu (M=Zr, Nb, Mo) alloys. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 284, 99-104	3.9	17
207	Effect of Cr addition on the formation of the decagonal quasicrystalline phase of a rapidly solidified Al-Ni-Co alloy. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 707, 41-45	5.7	16
206	Hydrogen storage in heavily deformed ZK60 alloy modified with 2.5wt.% Mn addition. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 4177-4184	6.7	16
205	Ordered phases and texture in spray-formed Fe <sub>5</sub> wt%Si. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, S260-S264	5.7	16
204	Crystallisation behaviour and glass-forming ability in AlCuNi system. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 495, 334-337	5.7	16
203	Microstructural characterization and hydrogenation study of extruded MgFe alloy. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 504, S299-S301	5.7	16
202	Out-of-plane magnetic patterning based on indentation-induced nanocrystallization of a metallic glass. <i>Small</i> , <b>2010</b> , 6, 1543-9	11	16
201	Phase transformation in Nb <sub>16</sub> at.% Si processed by high-energy ball milling. <i>Journal of Non-Crystalline Solids</i> , <b>1997</b> , 219, 170-175	3.9	16
200	Primary crystallization in amorphous Al <sub>84</sub> Ni <sub>8</sub> Co <sub>4</sub> Y <sub>3</sub> Zr <sub>1</sub> alloy. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 304, 36-43	3.9	16
199	Improving the glass-forming ability and plasticity of a TiCu-based bulk metallic glass composite by minor additions of Si. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 663, 531-539	5.7	16
198	Room temperature hydrogen absorption by Mg and Mg TiFe nanocomposites processed by high-energy ball milling. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 12251-12259	6.7	16
197	Hydrogen storage in MgH <sub>2</sub> LaNi <sub>5</sub> composites prepared by cold rolling under inert atmosphere. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 13348-13355	6.7	16
196	Single step fabrication by spray forming of large volume Al-based composites reinforced with quasicrystals. <i>Scripta Materialia</i> , <b>2020</b> , 181, 86-91	5.6	15
195	Wear-resistant boride reinforced steel coatings produced by non-vacuum electron beam cladding. <i>Surface and Coatings Technology</i> , <b>2020</b> , 386, 125466	4.4	15
194	An amorphous core transformer: design and experimental performance. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1997</b> , 226-228, 1079-1082	5.3	15
193	Microstructure and Magnetic Properties of Fe-6.5wt%Si Alloy Obtained by Spray Forming Process. <i>Materials Science Forum</i> , <b>2005</b> , 498-499, 111-118	0.4	15
192	Formation and stability of complex metallic phases including quasicrystals explored through combinatorial methods. <i>Scientific Reports</i> , <b>2019</b> , 9, 7136	4.9	14

191	Predicting the Formation of Intermetallic Phases in the Al-Si-Fe System with Mn Additions. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2017</b> , 38, 298-304	1	14
190	Electromechanical shaping, assembly and engraving of bulk metallic glasses. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 375-377, 227-234	5.3	14
189	Growth and microstructural characterization of SnSe-SnSe <sub>2</sub> composite. <i>Journal of Materials Science</i> , <b>1999</b> , 34, 4607-4612	4.3	14
188	Microstructure and wear resistance of spray-formed supermartensitic stainless steel. <i>Materials Research</i> , <b>2013</b> , 16, 642-646	1.5	14
187	Wear and Corrosion Performance of Al-Cu-Fe-(Cr) Quasicrystalline Coatings Produced by HVOF. <i>Journal of Thermal Spray Technology</i> , <b>2020</b> , 29, 1195-1207	2.5	14
186	Effect of cold rolling on the structure and hydrogen properties of AZ91 and AM60D magnesium alloys processed by ECAP. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 21822-21831	6.7	13
185	Microstructure and metastable phase formation in a rapidly solidified Ni <sub>3</sub> Bi eutectic alloy using a melt-spinning technique. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 381, 72-76	5.7	13
184	Consolidation of Partially Amorphous Al-Fe-Zr Alloys. <i>Materials Science Forum</i> , <b>2002</b> , 386-388, 33-38	0.4	13
183	Undercoolability of copper bulk samples. <i>Journal of Materials Science Letters</i> , <b>1989</b> , 8, 1416-1417		13
182	Processing a biocompatible Ti <sub>35</sub> Nb <sub>35</sub> Zr <sub>10</sub> Ta alloy by selective laser melting. <i>Journal of Materials Research</i> , <b>2020</b> , 35, 1143-1153	2.5	12
181	Hydrogen storage properties of 2Mg <sub>95</sub> Fe after the combined processes of hot extrusion and cold rolling. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 586, S409-S412	5.7	12
180	Microstructural characterization of Ti-6Al-7Nb alloy after severe plastic deformation. <i>Materials Research</i> , <b>2012</b> , 15, 786-791	1.5	12
179	Laser remelting of Al <sub>91</sub> Fe <sub>4</sub> Cr <sub>3</sub> Ti <sub>2</sub> quasicrystalline phase former alloy. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 495, 646-649	5.7	12
178	Spray forming of the glass former Fe <sub>83</sub> Zr <sub>3.5</sub> Nb <sub>3.5</sub> B <sub>9</sub> Cu <sub>1</sub> alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 375-377, 571-576	5.3	12
177	Microstructure of under-cooled Sn <sub>3</sub> Bi and Al <sub>3</sub> Bi alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 375-377, 473-478	5.3	12
176	Processing of MgH <sub>2</sub> by extensive cold rolling under protective atmosphere. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 2201-2208	6.7	11
175	Design and in-situ characterization of a strong and ductile co-rich multicomponent alloy with transformation induced plasticity. <i>Scripta Materialia</i> , <b>2019</b> , 173, 70-74	5.6	11
174	Effect of iron on the microstructure and mechanical properties of the spray-formed and rotary-swaged 319 aluminum alloy. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 102, 3879-3894	3.2	11

173	Designing new quasicrystalline compositions in Al-based alloys. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 823, 153765	5.7	11
172	Characterization of hydrogen storage properties of Mg-Fe-CNT composites prepared by ball milling, hot-extrusion and severe plastic deformation methods. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 23092-23098	6.7	11
171	The role of yttrium and oxygen on the crystallization behavior of a Cu <sub>2</sub> ZrAl metallic glass. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 406, 79-87	3.9	11
170	Hydrogen Activation Behavior of Commercial Magnesium Processed by Different Severe Plastic Deformation Routes. <i>Materials Science Forum</i> , <b>2010</b> , 667-669, 1047-1051	0.4	11
169	Mechanical behavior under nanoindentation of a new Ni-based glassy alloy produced by melt-spinning and copper mold casting. <i>Journal of Non-Crystalline Solids</i> , <b>2010</b> , 356, 2251-2257	3.9	11
168	Thermodynamic and topological instability approaches for forecasting glass-forming ability in the ternary AlNi <sub>3</sub> system. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 464, 118-121	5.7	11
167	In-situ crystallization of amorphous Fe <sub>73</sub> Nb <sub>x</sub> Al <sub>4</sub> Si <sub>3</sub> B <sub>20</sub> alloys through synchrotron radiation. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 3404-3409	3.9	11
166	Effect of oxide particles on the crystallisation behaviour of Zr <sub>55</sub> Al <sub>10</sub> Ni <sub>5</sub> Cu <sub>30</sub> alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 304-306, 665-669	5.3	11
165	Microstructure of undercooled Pb <sub>5</sub> Sn alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 304-306, 255-261	5.3	11
164	Wear Resistant Duplex Stainless Steels Produced by Spray Forming. <i>Metals and Materials International</i> , <b>2019</b> , 25, 456-464	2.4	11
163	Challenges in optimizing the resistance to corrosion and wear of amorphous Fe-Cr-Nb-B alloy containing crystalline phases. <i>Journal of Non-Crystalline Solids</i> , <b>2021</b> , 555, 120537	3.9	11
162	Characterization and Corrosion Resistance of Boron-Containing-Austenitic Stainless Steels Produced by Rapid Solidification Techniques. <i>Materials</i> , <b>2018</b> , 11,	3.5	11
161	Selection of good glass former compositions in Ni <sub>3</sub> Ti system using a combination of topological instability and thermodynamic criteria. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 1932-1935	3.9	10
160	Design and production of Al-Mn-Ce alloys with tailored properties. <i>Materials and Design</i> , <b>2016</b> , 110, 436-448	4.8	10
159	Recent developments on fabrication of Al-matrix composites reinforced with quasicrystals: From metastable to conventional processing. <i>Journal of Materials Research</i> , <b>2021</b> , 36, 281-297	2.5	10
158	Changing the solidification sequence and the morphology of iron-containing intermetallic phases in AA6061 aluminum alloy processed by spray forming. <i>Materials Characterization</i> , <b>2018</b> , 145, 507-515	3.9	10
157	Microstructure and mechanical behavior of Al <sub>92</sub> Fe <sub>3</sub> Cr <sub>2</sub> X <sub>3</sub> (X = Ce, Mn, Ti, and V) alloys processed by centrifugal force casting. <i>Journal of Materials Research and Technology</i> , <b>2019</b> , 8, 2092-2097	5.5	9
156	Insight into the complex ternary phase behavior in Al-Mn-Ce alloys. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 727, 460-468	5.7	9



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154	Amorphous phase formation by spray forming of alloys [(Fe <sub>0.6</sub> Co <sub>0.4</sub> ) <sub>0.75</sub> B <sub>0.2</sub> Si <sub>0.05</sub> ] <sub>96</sub> Nb <sub>4</sub> and Fe <sub>66</sub> B <sub>30</sub> Nb <sub>4</sub> modified with Ti. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, S148-S154	5.7	9
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152	Rapidly solidified Al <sub>92</sub> Fe <sub>3</sub> Cr <sub>2</sub> Mn <sub>3</sub> alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 1057-1061	5.3	9
151	Microstructure and mechanical properties of spray co-deposited Al <sub>8.9</sub> wt.% Si <sub>3.2</sub> wt.% Cu <sub>0.9</sub> wt.% Fe+(Al <sub>3</sub> wt.% Mn <sub>3</sub> wt.% Si) <sub>p</sub> composite. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 434-435, 371-374	5.7	9
150	Directional and rapid solidification of AlNbNi ternary eutectic alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 375-377, 565-570	5.3	9
149	Reactive Milling and Sintering of Nb-16at.% Si Mixtures. <i>Materials Science Forum</i> , <b>1996</b> , 235-238, 151-156.	6.4	9
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146	Assessing technological developments in amorphous/glassy metallic alloys using patent indicators. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 716, 330-335	5.7	8
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45	Retained Austenite in Spray Formed High Chromium White Cast Iron. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>2004</b> , 20-21, 297-302	0.2	1
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36	Microstructural Characterization of Spray Deposited Al-Y-Ni-Co-Zr Alloy and Al-Y-Ni-Co-Zr + SiCp Metal Matrix Composite. <i>Materials Science Forum</i> , <b>2002</b> , 403, 95-100	0.4	1
35	Phase Evolution and Microstructural Characterisation of High-Energy Ball Milled Al-Si-Fe-Ni Alloys. <i>Materials Science Forum</i> , <b>2002</b> , 386-388, 59-64	0.4	1
34	Phase equilibria of VCrMnFeCo high entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 903, 163950	5.7	1
33	Microstructure Characterization and Kinetics of Crystallization Behavior of Tubular Spray Formed Fe43.2Co28.8B19.2Si4.8Nb4 Bulk Metallic Glass*. <i>HTM - Journal of Heat Treatment and Materials</i> , <b>2014</b> , 69, 312-321	0.7	1
32	Effect of the addition of Mn on the tensile properties of a spray-formed and extruded Al-9Si-4Cu-1Fe alloy. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 144, 012014	0.3	1
31	Additive manufacturing of a quasicrystal-forming Al95Fe2Cr2Ti1 alloy with remarkable high-temperature strength and ductility. <i>Additive Manufacturing</i> , <b>2021</b> , 41, 101960	6.1	1
30	Magnetic Properties of Spray Formed Fe-3%Si, Fe-5%Si and Fe-6.5%Si Alloys. <i>Materials Science Forum</i> , <b>2003</b> , 416-418, 113-118	0.4	0

29	A wear-resistant Al <sub>85</sub> Cu <sub>6</sub> Fe <sub>3</sub> Cr <sub>6</sub> spray-formed quasicrystalline composite. <i>Materialia</i> , <b>2022</b> , 101367	3.2	0
28	Recent developments on fabrication of Al-matrix composites reinforced with quasicrystals: From metastable to conventional processing. <i>Journal of Materials Research</i> , <b>2021</b> , 36, 1-17	2.5	0
27	Mechanical properties and yield strength modeling of a medium entropy alloy containing L12 precipitates. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 898, 162923	5.7	0
26	Microstructure and properties of TiB <sub>2</sub> -reinforced Ti <sub>35</sub> Nb <sub>35</sub> Zr <sub>15</sub> Ta processed by laser-powder bed fusion. <i>Journal of Materials Research</i> , <b>2021</b> , 36, 1-17	2.5	0
25	Comparison of Cu <sub>40</sub> Al <sub>10</sub> Ni <sub>10</sub> Mn <sub>20</sub> Zr shape memory alloy prepared by selective laser melting and conventional powder metallurgy. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2020</b> , 30, 3322-3332	3.3	0
24	Characterization of Atomized Powders and Extruded Samples of an Al-Si-Cu Alloy. <i>Materials Science Forum</i> , <b>2017</b> , 899, 442-447	0.4	
23	Ferromagnetic Nanocrystalline Coatings over Steel through Laser Cladding of Fe and Ni-based Glass Former Alloys <b>2016</b> , 235-236		
22	Selection of compositions with high glass forming ability in the Ni-Nb-B alloy system. <i>Materials Research</i> , <b>2012</b> , 15, 718-722	1.5	
21	Effect of the addition of Mn on the tensile properties of a spray-formed and extruded Al-9Si-4Cu-1Fe alloy. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 144, 012114	0.3	
20	An equivalent circuit developed for a 2-winding shell-type amorphous core transformer. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1997</b> , 226-228, 1089-1092	5.3	
19	Crystallization of Amorphous Al <sub>85</sub> Ce <sub>5</sub> Ni <sub>10</sub> Ribbon. <i>Materials Science Forum</i> , <b>2008</b> , 570, 126-131	0.4	
18	Effects of the addition of SiC on the crystallization of Al <sub>84</sub> Ni <sub>8</sub> Co <sub>4</sub> Y <sub>3</sub> Zr <sub>1</sub> (at.%) amorphous ribbons. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 4878-4882	3.9	
17	Hot Extrusion of Nanostructured Al Alloy Powder: Extrusion Ratio and Temperature Effect on the Microstructure and Mechanical Properties. <i>Materials Science Forum</i> , <b>2008</b> , 570, 91-96	0.4	
16	Milling and Consolidation by Hot Rolling of Al-Fe-Cr Alloy. <i>Materials Science Forum</i> , <b>2008</b> , 591-593, 258-263	0.4	
15	Thermodynamic Analysis and Experimental Assessment of Al-Fe-Nd Alloys. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>2004</b> , 20-21, 557-562	0.2	
14	Partial Crystallisation and Mechanical Properties of Bulk Metallic Glasses. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>2004</b> , 20-21, 71-76	0.2	
13	Particle Size Distribution in the Radial Direction of the Spray Cone and its Influence on the Formation of Porosity in Fe-6%Si Alloy Processed by Spray Forming. <i>Materials Science Forum</i> , <b>2003</b> , 416-418, 425-430	0.4	
12	Solidification of the Non Dendrite-Forming Pb-16wt%Sn Alloy During Spray Forming. <i>Materials Science Forum</i> , <b>2003</b> , 416-418, 401-406	0.4	



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| 11 | Microstructural Characterization of Rapidly Solidified Al-6.5%Si-4%Cu Alloy Powders Produced by Gas Atomization. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>2005</b> , 24-25, 519-522                  | 0.2 |
| 10 | Soft Magnetic Properties of Amorphous Fe <sub>73-x</sub> Nb <sub>x</sub> Al <sub>4</sub> Si <sub>3</sub> B <sub>20</sub> Alloys. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>2005</b> , 24-25, 431-434  | 0.2 |
| 9  | Phase Selection in the Crystallization of Zr <sub>55</sub> Al <sub>10</sub> Ni <sub>5</sub> Cu <sub>30</sub> Amorphous Alloy. <i>Materials Science Forum</i> , <b>2001</b> , 360-362, 107-112                               | 0.4 |
| 8  | Formation of Novel Microstructures by Spray Deposition Process. <i>Materials Science Forum</i> , <b>2002</b> , 403, 45-50   | 0.4 |
| 7  | Glass Formation of Containerless Levitated Zr <sub>55</sub> Al <sub>10</sub> Ni <sub>5</sub> Cu <sub>30</sub> Alloy Containing Oxygen. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>2002</b> , 13, 53-58 | 0.2 |
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| 5  | Solidification of Germanium, Al-Based and Pd-Based Alloys under High Pressure. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>1999</b> , 2-6, 259-264  | 0.2 |
| 4  | Influence of Heterogeneous Nuclei on the Solidification of Pd <sub>77.5</sub> Cu <sub>6</sub> Si <sub>16.5</sub> Glassy Alloy <b>1988</b> , 195-198   |     |
| 3  | Corrosion of Fe-Based Nanocrystalline Alloys with Soft Magnetic Properties. <i>Journal of ASTM International</i> , <b>2010</b> , 7, 102563  |     |
| 2  | An Overview of Thermally Sprayed Fe-Cr-Nb-B Metallic Glass Coatings: From the Alloy Development to the Coating Performance Against Corrosion and Wear. <i>Journal of Thermal Spray Technology</i> , 1                       | 2.5 |
| 1  | Processability of recycled quasicrystalline Al-Fe-Cr-Ti composites by selective laser melting - A statistical approach. <i>Materialia</i> , <b>2022</b> , 22, 101377  | 3.2 |