

Claudemiro Bolfarini

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#	Paper	IF	Citations
216	Preliminary study on the microstructure and mechanical properties of dissimilar friction stir welds in aircraft aluminium alloys 2024-T351 and 6056-T4. <i>Journal of Materials Processing Technology</i> , 2008 , 206, 132-142	5.3	119
215	Topological instability as a criterion for design and selection of aluminum-based glass-former alloys. <i>Applied Physics Letters</i> , 2005 , 86, 211904	3.4	68
214	Corrosion resistance of Fe-based amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 586, S105-S110	4.9	65
213	Microstructure and wear behavior of Fe-based amorphous HVOF coatings produced from commercial precursors. <i>Surface and Coatings Technology</i> , 2017 , 309, 938-944	4.4	64
212	Influence of processing parameters on the fabrication of a Cu-Al-Ni-Mn shape-memory alloy by selective laser melting. <i>Additive Manufacturing</i> , 2016 , 11, 23-31	6.1	61
211	Metallurgy and mechanical performance of AZ31 magnesium alloy friction spot welds. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 515-521	5.3	57
210	Microstructure evolution and mechanical properties of Al ₇₀ Mg ₂₀ Ti alloy reprocessed by spray-forming and heat treated at peak aged condition. <i>Journal of Alloys and Compounds</i> , 2013 , 579, 169-173	5.7	56
209	Nanostructured MgH ₂ prepared by cold rolling and cold forging. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S444-S448	5.7	47
208	Consolidation of partially amorphous aluminium-alloy powders by severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 936-941	5.3	47
207	Corrosion properties of Fe ₈₀ Nb ₂₀ amorphous alloys and coatings. <i>Surface and Coatings Technology</i> , 2014 , 254, 238-243	4.4	42
206	Formation of Fe-based glassy matrix composite coatings by laser processing. <i>Surface and Coatings Technology</i> , 2014 , 240, 336-343	4.4	39
205	Microstructure and mechanical properties of a spray formed and extruded AA7050 recycled alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 586, S139-S142	5.7	39
204	Magnetic properties of spray-formed Fe ₈₀ .5%Si and Fe ₈₀ .5%Si ₁₀ .0%Al after rolling and heat treatment. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, e653-e656	2.8	39
203	Magnetic properties evaluation of spray formed and rolled Fe ₈₀ .5wt.% Si ₁₀ .0wt.% Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 375-377	5.3	38
202	Microstructure and interface characterization of dissimilar friction stir welded lap joints between Ti ₆ Al ₄ V and AISI 304. <i>Materials & Design</i> , 2014 , 56, 139-145		37
201	Microstructure and mechanical properties of spray deposited hypoeutectic Al ₇₀ Si alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 577-580	5.3	37
200	Sliding wear of spray-formed high-chromium white cast iron alloys. <i>Wear</i> , 2005 , 259, 445-452	3.5	37

199	Topological instability and electronegativity effects on the glass-forming ability of metallic alloys. <i>Philosophical Magazine Letters</i> , 2008 , 88, 785-791	1	35
198	Growth of aluminum-free porous oxide layers on titanium and its alloys Ti-6Al-4V and Ti-6Al-7Nb by micro-arc oxidation. <i>Materials Science and Engineering C</i> , 2014 , 41, 343-8	8.3	34
197	Glass forming ability of the Al _{0.5} CeNi system. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 4874-4877	3.9	34
196	Reassessment of the effects of Ce on quasicrystal formation and microstructural evolution in rapidly solidified AlMn alloys. <i>Acta Materialia</i> , 2015 , 98, 221-228	8.4	33
195	Partial crystallization and corrosion resistance of amorphous Fe-Cr-M-B (M = Mo, Nb) alloys. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 2651-2657	3.9	32
194	Corrosion and wear properties of FeCrMnCoSi HVOF coatings. <i>Surface and Coatings Technology</i> , 2019 , 357, 993-1003	4.4	31
193	Crystallisation behaviours of Al-based metallic glasses: Compositional and topological aspects. <i>Journal of Alloys and Compounds</i> , 2009 , 483, 89-93	5.7	30
192	Amorphous phase formation in spray deposited AlYNiCo and AlYNiCoZr alloys. <i>Scripta Materialia</i> , 2001 , 44, 1625-1628	5.6	30
191	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> , 2016 , 110, 188-195	8.1	30
190	Design of wear resistant boron-modified supermartensitic stainless steel by spray forming process. <i>Materials and Design</i> , 2015 , 83, 214-223	8.1	29
189	Wear resistant coatings of boron-modified stainless steels deposited by Plasma Transferred Arc. <i>Surface and Coatings Technology</i> , 2016 , 302, 255-264	4.4	29
188	Topological Instability as a Criterion for Design and Selection of Easy Glass-Former Compositions in Cu-Zr Based Systems. <i>Materials Transactions</i> , 2007 , 48, 1739-1742	1.3	29
187	Laser surface remelting of a Cu-Al-Ni-Mn shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 661, 61-67	5.3	29
186	Microstructural investigation of FeCrNbB amorphous/nanocrystalline coating produced by HVOF. <i>Materials and Design</i> , 2016 , 111, 608-615	8.1	28
185	Fatigue behavior of modified surface of Ti ₆ Al ₄ Nb and CP-Ti by micro-arc oxidation. <i>Materials & Design</i> , 2014 , 64, 393-399		28
184	Osteoblasts behavior on chemically treated commercially pure titanium surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 1816-22	5.4	28
183	Obtaining self-organized nanotubes on biomedical TiMo alloys. <i>Electrochemistry Communications</i> , 2013 , 35, 139-141	5.1	28
182	Amorphous phase formation during spray forming of Al ₈₄ Y ₃ Ni ₈ Co ₄ Zr ₁ alloy. <i>Journal of Non-Crystalline Solids</i> , 2001 , 284, 134-138	3.9	28

181	Spray forming of Cu ₁ 1.85Al ₁ .2Ni ₁ Mn (wt%) shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S602-S606	5-7	27
180	Effect of an amorphous titania nanotubes coating on the fatigue and corrosion behaviors of the biomedical Ti-6Al-4V and Ti-6Al-7Nb alloys. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 65, 542-551	4-1	27
179	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> , 2015 , 18, 35-38	1-5	27
178	Degradation of biodegradable implants: The influence of microstructure and composition of Mg-Zn-Ca alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 774, 168-181	5-7	27
177	Gene expression of human osteoblasts cells on chemically treated surfaces of Ti-6Al-4V-ELI. <i>Materials Science and Engineering C</i> , 2015 , 51, 248-55	8-3	26
176	Texture Development and Material Flow Behavior During Refill Friction Stir Spot Welding of AlMgSc. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 241-254	2-3	26
175	Thermodynamic analysis of the effect of annealing on the thermal stability of a Cu ₁ Al ₁ Ni ₁ Mn shape memory alloy. <i>Thermochimica Acta</i> , 2015 , 608, 1-6	2-9	25
174	Atomization and Selective Laser Melting of a Cu-Al-Ni-Mn Shape Memory Alloy. <i>Materials Science Forum</i> , 2014 , 802, 343-348	0-4	25
173	Comparative analysis of corrosion resistance between beta titanium and Ti-6Al-4V alloys: A systematic review. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020 , 62, 126618	4-1	25
172	High cycle fatigue and fracture behavior of Ti-5Al-5Mo-5V-3Cr alloy with BASCA and double aging treatments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 658, 203-209	5-3	25
171	Effects of order-disorder reactions on rapidly quenched Fe ₁ .5%Si alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 586, S314-S316	5-7	24
170	Topological instability, average electronegativity difference and glass forming ability of amorphous alloys. <i>Intermetallics</i> , 2009 , 17, 183-185	3-5	24
169	Evolution of the texture of spray-formed Fe ₁ .5wt.% Si ₁ .0wt.% Al alloy during warm-rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 854-857	5-3	24
168	Phase transformation and shape memory effect of a Cu-Al-Ni-Mn-Nb high temperature shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 663, 64-68	5-3	24
167	Surface anodization of the biphasic Ti ₁₃ Nb ₁₃ Zr biocompatible alloy: Influence of phases on the formation of TiO ₂ nanostructures. <i>Journal of Alloys and Compounds</i> , 2019 , 796, 93-102	5-7	23
166	Processing of Al matrix composites reinforced with Al ₁ Ni compounds and Al ₂ O ₃ by reactive milling and reactive sintering. <i>Journal of Alloys and Compounds</i> , 2009 , 471, 448-452	5-7	23
165	Microstructure and wear resistance of spray formed high chromium white cast iron. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 589-594	5-3	23
164	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> , 2018 , 49, 4860-4870	2-3	23

163	Electrochemical impedance analysis of TiO ₂ nanotube porous layers based on an alternative representation of impedance data. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 737, 54-64	4.1	22
162	Solidification Sequence of Spray-Formed Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 842-851	2.3	22
161	Microstructure study of Al 7050 alloy reprocessed by spray forming and hot-extrusion and aged at 121°C. <i>Intermetallics</i> , 2013 , 43, 182-187	3.5	22
160	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> , 2017 , 319, 241-248	4.4	21
159	Prediction of the surface finishing roughness effect on the fatigue resistance of Ti-6Al-4V ELI for implants applications. <i>International Journal of Fatigue</i> , 2017 , 103, 258-263	5	21
158	Severely deformed ZK60+2.5% Mn alloy for hydrogen storage produced by two different processing routes. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11284-11292	6.7	21
157	Influence of niobium addition on the high temperature mechanical properties of a centrifugally cast HP alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 628, 176-180	5.3	21
156	Processing and characterization of amorphous magnesium based alloy for application in biomedical implants. <i>Journal of Materials Research and Technology</i> , 2014 , 3, 203-209	5.5	21
155	Microstructural characterization of a laser remelted coating of Al ₉₁ Fe ₄ Cr ₃ Ti ₂ quasicrystalline alloy. <i>Scripta Materialia</i> , 2009 , 61, 709-712	5.6	21
154	Spray forming of glass former Fe ₆₃ Nb ₁₀ Al ₄ Si ₃ B ₂₀ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 884-889	5.3	21
153	Fabrication of Al-matrix composite reinforced with quasicrystals using conventional metallurgical fabrication methods. <i>Scripta Materialia</i> , 2019 , 173, 21-25	5.6	20
152	Nanoquasicrystalline AlBeCrNb alloys produced by powder metallurgy. <i>Journal of Alloys and Compounds</i> , 2013 , 577, 650-657	5.7	20
151	Severe plastic deformation of Mg-Fe powders to produce bulk hydrides. <i>Journal of Physics: Conference Series</i> , 2009 , 144, 012015	0.3	20
150	Application of mathematical simulation and the factorial design method to the optimization of the atomization stage in the spray forming of a Cu ₈₀ Zn alloy. <i>Journal of Materials Processing Technology</i> , 2000 , 102, 221-229	5.3	20
149	Enhancement of Mechanical Properties of Aluminum and 2124 Aluminum Alloy by the Addition of Quasicrystalline Phases. <i>Materials Research</i> , 2016 , 19, 74-79	1.5	20
148	Effect of boron addition on the solidification sequence and microstructure of AlCoCrFeNi alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 775, 1235-1243	5.7	20
147	Amorphous phase formation in Fe-6.0wt%Si alloy by mechanical alloying. <i>Scripta Materialia</i> , 1999 , 42, 213-217	5.6	19
146	The formation of quasicrystals in Al-Cu-Fe-(M=Cr,Ni) melt-spun ribbons. <i>Journal of Alloys and Compounds</i> , 2018 , 731, 1288-1294	5.7	18

145	Microstructure and mechanical properties of spray deposited and extruded/heat treated hypoeutectic AlSi alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 850-853	5.3	18
144	Titanium micro addition in a centrifugally cast HPNb alloy: High temperature mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 636, 48-52	5.3	17
143	Corrosion properties of amorphous, partially, and fully crystallized Fe ₆₈ Cr ₈ Mo ₄ Nb ₄ B ₁₆ alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 826, 154123	5.7	17
142	Wear and corrosion properties of HVOF coatings from Superduplex alloy modified with addition of boron. <i>Surface and Coatings Technology</i> , 2017 , 309, 911-919	4.4	17
141	Fatigue behavior and physical characterization of surface-modified Ti-6Al-4V ELI alloy by micro-arc oxidation. <i>Materials Research</i> , 2012 , 15, 305-311	1.5	17
140	Microstructure and mechanical properties of AlSiMg ribbons. <i>Journal of Alloys and Compounds</i> , 2010 , 495, 386-390	5.7	17
139	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> , 2017 , 707, 41-45	5.7	16
138	Hydrogen storage in heavily deformed ZK60 alloy modified with 2.5 wt.% Mn addition. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 4177-4184	6.7	16
137	Ordered phases and texture in spray-formed Fe-5wt%Si. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S260-S264	5.7	16
136	Crystallisation behaviour and glass-forming ability in Al ₇₀ Ni ₃₀ system. <i>Journal of Alloys and Compounds</i> , 2010 , 495, 334-337	5.7	16
135	Out-of-plane magnetic patterning based on indentation-induced nanocrystallization of a metallic glass. <i>Small</i> , 2010 , 6, 1543-9	11	16
134	Wear-resistant boride reinforced steel coatings produced by non-vacuum electron beam cladding. <i>Surface and Coatings Technology</i> , 2020 , 386, 125466	4.4	15
133	Tailoring the microstructure and mechanical properties of metastable Ti ₂₉ Nb ₁₃ Ta-4.6Zr alloy for self-expansible stent applications. <i>Journal of Alloys and Compounds</i> , 2019 , 800, 35-40	5.7	15
132	Surface chemical treatment of ultrafine-grained Ti ₆₀ Al ₄₀ Nb alloy processed by severe plastic deformation. <i>Journal of Alloys and Compounds</i> , 2015 , 643, S241-S245	5.7	15
131	Microstructure and Magnetic Properties of Fe-6.5wt%Si Alloy Obtained by Spray Forming Process. <i>Materials Science Forum</i> , 2005 , 498-499, 111-118	0.4	15
130	Fatigue strength of Ti-6Al-4V alloy with surface modified by TiO ₂ nanotubes formation. <i>Materials Letters</i> , 2016 , 177, 46-49	3.3	15
129	Microstructure and elastic deformation behavior of B-type Ti-29Nb-13Ta-4.6Zr with promising mechanical properties for stent applications. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 3852-3858	5.5	14
128	Formation and stability of complex metallic phases including quasicrystals explored through combinatorial methods. <i>Scientific Reports</i> , 2019 , 9, 7136	4.9	14

127	Predicting the Formation of Intermetallic Phases in the Al-Si-Fe System with Mn Additions. <i>Journal of Phase Equilibria and Diffusion</i> , 2017 , 38, 298-304	1	14
126	Chemistry and tensile properties of a recycled AA7050 via spray forming and ECAP/E. <i>Materials Research</i> , 2012 , 15, 739-748	1.5	14
125	Microstructure and wear resistance of spray-formed supermartensitic stainless steel. <i>Materials Research</i> , 2013 , 16, 642-646	1.5	14
124	Wear and Corrosion Performance of Al-Cu-Fe-(Cr) Quasicrystalline Coatings Produced by HVOF. <i>Journal of Thermal Spray Technology</i> , 2020 , 29, 1195-1207	2.5	14
123	Refill friction stir spot welding of AA6082-T6 alloy: Hook defect formation and its influence on the mechanical properties and fracture behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 773, 138724	5.3	14
122	Effect of hydrogen on the fatigue behavior of the near- β -Ti-5Al-5Mo-5V-3Cr alloy. <i>Scripta Materialia</i> , 2017 , 132, 39-43	5.6	12
121	Microstructural characterization of Ti-6Al-7Nb alloy after severe plastic deformation. <i>Materials Research</i> , 2012 , 15, 786-791	1.5	12
120	Laser remelting of Al ₉₁ Fe ₄ Cr ₃ Ti ₂ quasicrystalline phase former alloy. <i>Journal of Alloys and Compounds</i> , 2010 , 495, 646-649	5.7	12
119	Spray forming of the glass former Fe ₈₃ Zr _{3.5} Nb _{3.5} B ₉ Cu ₁ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 571-576	5.3	12
118	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> , 2019 , 102, 3879-3894	3.2	11
117	Designing new quasicrystalline compositions in Al-based alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 823, 153765	5.7	11
116	The role of yttrium and oxygen on the crystallization behavior of a Cu ₂ ZrAl metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2014 , 406, 79-87	3.9	11
115	Numerical evaluation of reduction of stress shielding in laser coated hip prostheses. <i>Materials Research</i> , 2011 , 14, 331-334	1.5	11
114	Hydrogen Activation Behavior of Commercial Magnesium Processed by Different Severe Plastic Deformation Routes. <i>Materials Science Forum</i> , 2010 , 667-669, 1047-1051	0.4	11
113	Mechanical behavior under nanoindentation of a new Ni-based glassy alloy produced by melt-spinning and copper mold casting. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 2251-2257	3.9	11
112	Thermodynamic and topological instability approaches for forecasting glass-forming ability in the ternary Al ₈₀ Ni ₁₀ system. <i>Journal of Alloys and Compounds</i> , 2008 , 464, 118-121	5.7	11
111	In-situ crystallization of amorphous Fe ₇₃ Nb _x Al ₄ Si ₃ B ₂₀ alloys through synchrotron radiation. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 3404-3409	3.9	11
110	Microstructure of undercooled Pb ₅ Ni alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 304-306, 255-261	5.3	11

109	Wear Resistant Duplex Stainless Steels Produced by Spray Forming. <i>Metals and Materials International</i> , 2019 , 25, 456-464	2.4	11
108	Severe plastic deformation and different surface treatments on the biocompatible Ti13Nb13Zr and Ti35Nb7Zr5Ta alloys: Microstructural and phase evolutions, mechanical properties, and bioactivity analysis. <i>Journal of Alloys and Compounds</i> , 2020 , 812, 152116	5.7	11
107	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> , 2021 , 555, 120537	3.9	11
106	Characterization and Corrosion Resistance of Boron-Containing-Austenitic Stainless Steels Produced by Rapid Solidification Techniques. <i>Materials</i> , 2018 , 11,	3.5	11
105	The role of twinning and nano-crystalline β phase on the fatigue behavior of the metastable β Ti-15Mo alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 729, 323-330	5.3	11
104	Anodic formation of self-organized Ti(Nb,Sn) oxide nanotube arrays with tuneable aspect ratio and size distribution. <i>Electrochemistry Communications</i> , 2013 , 33, 84-87	5.1	10
103	Selection of good glass former compositions in NiTi system using a combination of topological instability and thermodynamic criteria. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 1932-1935	3.9	10
102	Design and production of Al-Mn-Ce alloys with tailored properties. <i>Materials and Design</i> , 2016 , 110, 436-448	4.8	10
101	Recent developments on fabrication of Al-matrix composites reinforced with quasicrystals: From metastable to conventional processing. <i>Journal of Materials Research</i> , 2021 , 36, 281-297	2.5	10
100	Changing the solidification sequence and the morphology of iron-containing intermetallic phases in AA6061 aluminum alloy processed by spray forming. <i>Materials Characterization</i> , 2018 , 145, 507-515	3.9	10
99	Microstructure and mechanical behavior of Al92Fe3Cr2X3 (X = Ce, Mn, Ti, and V) alloys processed by centrifugal force casting. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 2092-2097	5.5	9
98	Topological instability and glass forming ability of AlNiBm alloys. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S141-S144	5.7	9
97	Amorphous phase formation by spray forming of alloys [(Fe0.6Co0.4)0.75B0.2Si0.05]96Nb4 and Fe66B30Nb4 modified with Ti. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S148-S154	5.7	9
96	Prediction of good glass formers in the Al-Ni-La and Al-Ni-Gd systems using topological instability and electronegativity. <i>Journal of Applied Physics</i> , 2011 , 109, 093509	2.5	9
95	Rapidly solidified Al92Fe3Cr2Mn3 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 1057-1061	5.3	9
94	Microstructure and mechanical properties of spray co-deposited Al8.9wt.% SiB.2wt.% Cu0.9wt.% Fe+(AlBwt.% MnBwt.% Si)p composite. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 371-374	5.7	9
93	Directional and rapid solidification of AlNbNi ternary eutectic alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 565-570	5.3	9
92	Wear Resistance of Boron-Modified Supermartensitic Stainless Steel Coatings Produced by High-Velocity Oxygen Fuel Process. <i>Journal of Thermal Spray Technology</i> , 2019 , 28, 2003-2014	2.5	9

91	Design of a FeMnAlC steel with TWIP effect and evaluation of its tensile and fatigue properties. <i>Journal of Alloys and Compounds</i> , 2020 , 831, 154806	5.7	8
90	Effect of dislocations and residual stresses on the martensitic transformation of Cu-Al-Ni-Mn shape memory alloy powders. <i>Journal of Alloys and Compounds</i> , 2017 , 723, 841-849	5.7	8
89	Glass formation of alloys selected by lambda and electronegativity criteria in the TiZrBeCo system. <i>Journal of Alloys and Compounds</i> , 2010 , 495, 316-318	5.7	8
88	Processing of glass former alloys by spray forming. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2010 , 41, 513-523	0.9	8
87	Microstructure formation and abrasive wear resistance of a boron-modified superduplex stainless steel produced by spray forming. <i>Journal of Materials Research</i> , 2016 , 31, 2987-2993	2.5	8
86	Electrochemical Corrosion Behavior of Spray-Formed Boron-Modified Supermartensitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 2077-2089	7.3	7
85	Effect of the modification by titanium dioxide nanotubes with different structures on the fatigue response of Ti grade 2. <i>Materials Research</i> , 2017 , 20, 120-124	1.5	7
84	On the valence electron theory to estimate the transformation temperatures of CuAl-based shape memory alloys. <i>Journal of Materials Research</i> , 2017 , 32, 3165-3174	2.5	7
83	Rapid solidification of an Al-5Ni alloy processed by spray forming. <i>Materials Research</i> , 2012 , 15, 779-785	1.5	7
82	Comparative study of nanoindentation on melt-spun ribbon and bulk metallic glass with Ni60Nb37B3 composition. <i>Journal of Materials Research</i> , 2013 , 28, 2740-2746	2.5	7
81	Microstructural characterization of high-silicon iron alloys produced by spray forming and co-injection of Si particles. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S254-S259	5.7	7
80	Evaluation of glass forming ability in the NiNbZr alloy system by the topological instability (Δ) criterion. <i>Journal of Alloys and Compounds</i> , 2010 , 495, 313-315	5.7	7
79	Hot Extrusion of Nanostructured Al-Powder Alloys: Grain Growth Control and the Effect of Process Parameters on Their Microstructure and Mechanical Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009 , 40, 3314	2.3	7
78	Characterization of Glass Forming Alloy Fe _{43.2} Co _{28.8} B _{19.2} Si _{4.8} Nb ₄ Processed by Spray Forming and Wedge Mold Casting Techniques. <i>Materials Science Forum</i> , 2011 , 691, 23-26	0.4	7
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- 1 An Overview of Thermally Sprayed Fe-Cr-Nb-B Metallic Glass Coatings: From the Alloy Development to the Coating Performance Against Corrosion and Wear. *Journal of Thermal Spray Technology*, 1 2.5