

# Claudemiro Bolfarini

## List of Publications by Year in Descending Order

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**Version:** 2024-04-20

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

216  
papers

3,232  
citations

29  
h-index

39  
g-index

225  
ext. papers

3,704  
ext. citations

3.7  
avg, IF

5.49  
L-index

#	Paper	IF	Citations
216	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
215	Fatigue crack propagation of aeronautic AA7050-T7451 and AA2050-T84 aluminum alloys in air and saline environments. <i>International Journal of Fatigue</i> , <b>2022</b> , 154, 106519	5	1
214	Wear-resistant Fe <sub>68</sub> Cr <sub>8</sub> Mo <sub>4</sub> Nb <sub>4</sub> B <sub>16</sub> glass former coatings [From powder production by gas atomization to coating build-up by Laser Powder Bed Fusion. <i>Surface and Coatings Technology</i> , <b>2022</b> , 441, 128482	4.4	0
213	Hot Deformation Behavior of a Beta Metastable TMZF Alloy: Microstructural and Constitutive Phenomenological Analysis. <i>Metals</i> , <b>2021</b> , 11, 1769	2.3	2
212	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
211	Corrosion Resistant Boron-Modified Ferritic and Austenitic Stainless Steels Designed by CALPHAD. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 2708-2719	2.3	0
210	Microstructural evolution and properties of a Ti-Nb-Ta-Zr-O prepared by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 864, 158828	5.7	5
209	Effect of hydrogen pick-up on the fatigue behavior of the β-type Ti-12Mo-6Zr-2Fe alloy with nanoprecipitation. <i>Materials Letters</i> , <b>2021</b> , 282, 128740	3.3	2
208	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
207	Analysis of the mechanical and physicochemical properties of Ti-6Al-4 V discs obtained by selective laser melting and subtractive manufacturing method. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2021</b> , 109, 420-427	3.5	5
206	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
205	Influence of oxygen addition and aging on the microstructure and mechanical properties of a Ti-29Nb-13Ta-4Mo alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 819, 141500	5.3	4
204	Influence of chromium concentration and partial crystallization on the corrosion resistance of FeCrNiB amorphous alloys. <i>Materials Characterization</i> , <b>2021</b> , 179, 111369	3.9	4
203	Influence of oxygen and plastic deformation on the microstructure and the hardness of a Ti-10Nb-1Ta-2Zr Gum Metal. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 142122	5.3	0
202	Strong and ductile recycled Al-7Si-3Cu-1Fe alloy: Controlling the morphology of quasicrystal approximant β phase by Mn and V addition. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 888, 161508	5.7	2
201	Corrosion resistance of pseudo-high entropy Fe-containing amorphous alloys in chloride-rich media. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 884, 161090	5.7	4
200	Influence of the deformation rate on phase stability and mechanical properties of a Ti-9Nb-13Ta-6Zr-O alloy analyzed by in situ high-energy X-ray diffraction during compression tests. <i>Journal of Materials Research</i> , <b>2020</b> , 35, 1777-1789	2.5	3

199	Influence of Al Additions on the Microstructure and Mechanical Properties of a C and Si-Free High-Mn Steel. <i>Metals</i> , <b>2020</b> , 10, 352	2.3	1
198	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
197	Corrosion properties of amorphous, partially, and fully crystallized Fe <sub>68</sub> Cr <sub>8</sub> Mo <sub>4</sub> Nb <sub>4</sub> B <sub>16</sub> alloy. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 826, 154123	5.7	17
196	Designing new quasicrystalline compositions in Al-based alloys. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 823, 153765	5.7	11
195	Outstanding Tensile Ductility in High Iron-Containing Al-Si-Cu Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 2703-2710	2.3	5
194	Design of a FeMnAlC steel with TWIP effect and evaluation of its tensile and fatigue properties. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 831, 154806	5.7	8
193	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
192	Rotational outward solidification casting: An innovative single step process to produce a functionally graded aluminum reinforced with quasicrystal approximant phases. <i>Materials and Design</i> , <b>2020</b> , 189, 108544	8.1	5
191	Oligocrystalline microstructure in an additively manufactured biocompatible Ti-Nb-Zr-Ta alloy. <i>Materials Letters</i> , <b>2020</b> , 262, 127149	3.3	5
190	Stable Eutectic Formation in Spray-Formed Cast Iron. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 798-808	2.3	1
189	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 &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 773, 138724	5.3	14
188	Functionally graded aluminum reinforced with quasicrystal approximant phases [Improving the wear resistance at high temperatures. <i>Wear</i> , <b>2020</b> , 462-463, 203507	3.5	2
187	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> , <b>2020</b> , 62, 126618	4.1	25
186	Severe plastic deformation and different surface treatments on the biocompatible Ti <sub>13</sub> Nb <sub>13</sub> Zr and Ti <sub>35</sub> Nb <sub>7</sub> Zr <sub>5</sub> Ta alloys: Microstructural and phase evolutions, mechanical properties, and bioactivity analysis. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 812, 152116	5.7	11
185	Microstructure and elastic deformation behavior of β-type Ti-29Nb-13Ta-4.6Zr with promising mechanical properties for stent applications. <i>Journal of Materials Research and Technology</i> , <b>2019</b> , 8, 3852-3858 <sup>14</sup>	5.5	14
184	Effect of Thermo-Mechanical Treatments on the Microstructure and Mechanical Properties of the Metastable β-type Ti-35Nb-7Zr-5Ta Alloy. <i>Materials Research</i> , <b>2019</b> , 22,	1.5	6
183	Surface anodization of the biphasic Ti <sub>13</sub> Nb <sub>13</sub> Zr biocompatible alloy: Influence of phases on the formation of TiO <sub>2</sub> nanostructures. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 796, 93-102	5.7	23
182	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

181	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
180	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> , <b>2019</b> , 8, 2092-2097	5.5	9
179	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
178	Tailoring the microstructure of recycled 319 aluminum alloy aiming at high ductility. <i>Journal of Materials Research and Technology</i> , <b>2019</b> , 8, 3539-3549	5.5	5
177	Influence of a Femtosecond Laser Surface Modification on the Fatigue Behavior of Ti-6Al-4V ELI Alloy. <i>Materials Research</i> , <b>2019</b> , 22,	1.5	3
176	Tailoring the microstructure and mechanical properties of metastable Ti <sub>29</sub> Nb <sub>11</sub> 3Ta-4.6Zr alloy for self-expansible stent applications. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 800, 35-40	5.7	15
175	Assessment of the Fatigue Behavior of Ti-6Al-4V ELI Alloy with Surface Treated by Nd:YAG Laser Irradiation. <i>Materials Research</i> , <b>2019</b> , 22,	1.5	2
174	Wear Resistance of Boron-Modified Supermartensitic Stainless Steel Coatings Produced by High-Velocity Oxygen Fuel Process. <i>Journal of Thermal Spray Technology</i> , <b>2019</b> , 28, 2003-2014	2.5	9
173	Corrosion and wear properties of FeCrMnCoSi HVOF coatings. <i>Surface and Coatings Technology</i> , <b>2019</b> , 357, 993-1003	4.4	31
172	Wear Resistant Duplex Stainless Steels Produced by Spray Forming. <i>Metals and Materials International</i> , <b>2019</b> , 25, 456-464	2.4	11
171	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
170	A study of the parameters influencing mechanical properties and the fatigue performance of refill friction stir spot welded AlMgSc alloy. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 100, 101-110	3.2	6
169	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
168	Fatigue resistance, electrochemical corrosion and biological response of Ti-15Mo with surface modified by amorphous TiO nanotubes layer. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2019</b> , 107, 86-96	3.5	5
167	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> , <b>2018</b> , 49, 241-254	2.3	26
166	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
165	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
164	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

163	The role of twinning and nano-crystalline $\beta$ phase on the fatigue behavior of the metastable $\beta$ Ti-15Mo alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 729, 323-330	5.3	11
162	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
161	Surface characterization and fatigue performance of a chemical-etched Ti-6Al-4V femoral stem for cementless hip arthroplasty. <i>Surface and Coatings Technology</i> , <b>2017</b> , 309, 1126-1134	4.4	3
160	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
159	On the ternary eutectic reaction in the Fe <sub>60</sub> Cr <sub>8</sub> Nb <sub>8</sub> B <sub>24</sub> quaternary alloy. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 707, 281-286	5.7	2
158	Effect of hydrogen on the fatigue behavior of the near- $\beta$ Ti-5Al-5Mo-5V-3Cr alloy. <i>Scripta Materialia</i> , <b>2017</b> , 132, 39-43	5.6	12
157	Electrochemical Corrosion Behavior of Spray-Formed Boron-Modified Supermartensitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 2077-2089	2.3	7
156	Experimental and thermodynamic investigation of the microstructural evolution of a boron-rich Fe-Cr-Nb-B alloy. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 713, 119-124	5.7	2
155	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
154	Thermodynamic Calculations for the Investigation of Phase Formation in Boron-Modified Ferritic Stainless Steel. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2017</b> , 38, 343-349	1	6
153	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> , <b>2017</b> , 103, 258-263	5	21
152	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
151	Rapid Solidification and Laser Cladding of Gas Atomized Ni-Nb-Sn Bulk Metallic Glass. <i>Materials Science Forum</i> , <b>2017</b> , 899, 311-316	0.4	2
150	Ultrafine-Grained Ti-13Nb-13Zr Alloy Produced by Severe Plastic Deformation. <i>Materials Research</i> , <b>2017</b> , 20, 404-410	1.5	6
149	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	
148	Effect of the modification by titanium dioxide nanotubes with different structures on the fatigue response of Ti grade 2. <i>Materials Research</i> , <b>2017</b> , 20, 120-124	1.5	7
147	On the valence electron theory to estimate the transformation temperatures of CuAl-based shape memory alloys. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 3165-3174	2.5	7
146	Spray Forming of Novel Materials <b>2017</b> , 521-561		1

145	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
144	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> , <b>2017</b> , 723, 841-849	5.7	8
143	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
142	Mechanical Strength and Surface Roughness of Magnesium-Based Metallic Glasses. <i>Jom</i> , <b>2017</b> , 69, 1175-1184	2	
141	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> , <b>2017</b> , 65, 542-551	4.1	27
140	Microstructural investigation of FeCrNbB amorphous/nanocrystalline coating produced by HVOF. <i>Materials and Design</i> , <b>2016</b> , 111, 608-615	8.1	28
139	Assessment of phase constitution on the Al-rich region of rapidly solidified Al-Co-Fe-Cr alloys. <i>Materials Characterization</i> , <b>2016</b> , 122, 76-82	3.9	4
138	Fatigue Performance of New Developed Biomedical Ti-15Mo Alloy with Surface Modified by TiO <sub>2</sub> Nanotubes Formation <b>2016</b> , 231-235		
137	Fatigue Behavior of Ticp with Surface Modified by Tio <sub>2</sub> Nanotubes Formation <b>2016</b> , 1731-1733		
136	Comparison of The Fatigue Strength of Ti-5553 And Ti-6Al-4V for Aerospace Applications <b>2016</b> , 801-805		
135	Solidification Sequence of Spray-Formed Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 842-851	2.3	22
134	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
133	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
132	Hydrogen storage in heavily deformed ZK60 alloy modified with 2.5 wt.% Mm addition. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 4177-4184	6.7	16
131	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
130	The Effect of Cr Content on the Glass Forming Ability of Fe <sub>68-x</sub> Cr <sub>x</sub> Nb <sub>8</sub> B <sub>24</sub> (x =8,10,12) Alloys. <i>Materials Research</i> , <b>2016</b> , 19, 92-96	1.5	3
129	Microstructure formation and abrasive wear resistance of a boron-modified superduplex stainless steel produced by spray forming. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 2987-2993	2.5	8
128	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

127	High cycle fatigue and fracture behavior of Ti-5Al-5Mo-5V-3Cr alloy with BASCA and double aging treatments. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 658, 203-209	5.3	25
126	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
125	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
124	Fatigue strength of Ti-6Al-4V alloy with surface modified by TiO <sub>2</sub> nanotubes formation. <i>Materials Letters</i> , <b>2016</b> , 177, 46-49	3.3	15
123	Fatigue behavior of Ti-6Al-4V alloy in saline solution with the surface modified at a micro- and nanoscale by chemical treatment. <i>Materials Science and Engineering C</i> , <b>2016</b> , 67, 425-432	8.3	7
122	Design and production of Al-Mn-Ce alloys with tailored properties. <i>Materials and Design</i> , <b>2016</b> , 110, 436-448	8.4	10
121	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
120	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
119	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
118	Thermodynamic analysis of the effect of annealing on the thermal stability of a CuAlNiMn shape memory alloy. <i>Thermochimica Acta</i> , <b>2015</b> , 608, 1-6	2.9	25
117	Gene expression of human osteoblasts cells on chemically treated surfaces of Ti-6Al-4V-ELI. <i>Materials Science and Engineering C</i> , <b>2015</b> , 51, 248-55	8.3	26
116	Titanium micro addition in a centrifugally cast HPNb alloy: High temperature mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 636, 48-52	5.3	17
115	The effect of oxygen on the microstructural evolution in crystallized CuZrAl metallic glasses. <i>Intermetallics</i> , <b>2015</b> , 65, 51-55	3.5	2
114	Electrochemical impedance analysis of TiO <sub>2</sub> nanotube porous layers based on an alternative representation of impedance data. <i>Journal of Electroanalytical Chemistry</i> , <b>2015</b> , 737, 54-64	4.1	22
113	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
112	Crystallization Behavior of Amorphous Ti <sub>51.1</sub> Cu <sub>38.9</sub> Ni <sub>10.0</sub> Alloy. <i>Materials Research</i> , <b>2015</b> , 18, 104-108	1.5	3
111	Surface chemical treatment of ultrafine-grained TiAlNb alloy processed by severe plastic deformation. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 643, S241-S245	5.7	15
110	Influence of niobium addition on the high temperature mechanical properties of a centrifugally cast HP alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 628, 176-180	5.3	21

109	Hot Consolidation of Partially Amorphous Cu-Ti Based Alloy: a Comparison Between Hot Extrusion and Hot Compaction by Sintering. <i>Materials Research</i> , <b>2015</b> , 18, 448-452	1.5	2
108	Microstructure and interface characterization of dissimilar friction stir welded lap joints between Ti6Al4V and AISI 304. <i>Materials &amp; Design</i> , <b>2014</b> , 56, 139-145		37
107	Fatigue behavior of modified surface of Ti6Al7Nb and CP-Ti by micro-arc oxidation. <i>Materials &amp; Design</i> , <b>2014</b> , 64, 393-399		28
106	Corrosion properties of Fe78Ni15B7 amorphous alloys and coatings. <i>Surface and Coatings Technology</i> , <b>2014</b> , 254, 238-243	4.4	42
105	The role of yttrium and oxygen on the crystallization behavior of a Cu78Al metallic glass. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 406, 79-87	3.9	11
104	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
103	Spray forming of Cu71.85Al7.2Ni7Mn (wt%) shape memory alloy. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 615, S602-S606	5.7	27
102	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> , <b>2014</b> , 41, 343-8	8.3	34
101	Effects of order-disorder reactions on rapidly quenched Fe75.5Si alloy. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 586, S314-S316	5.7	24
100	Microstructure and mechanical properties of a spray formed and extruded AA7050 recycled alloy. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 586, S139-S142	5.7	39
99	Osteoblasts behavior on chemically treated commercially pure titanium surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 1816-22	5.4	28
98	Microstructure of a recycled AA7050 alloy processed by spray forming followed by hot extrusion and rotary swaging. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2014</b> , 45, 568-573	0.9	6
97	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
96	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
95	Corrosion resistance of Fe-based amorphous alloys. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 586, S105-S110	5.7	65
94	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
93	Microstructure evolution and mechanical properties of Al70Ni10Mg10Cu 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
92	Comparative study between two die cast methods for processing Cu78Al bulk metallic glasses. <i>Journal of Materials Research and Technology</i> , <b>2013</b> , 2, 125-129	5.5	6



91	Metallurgy and mechanical performance of AZ31 magnesium alloy friction spot welds. <i>Journal of Materials Processing Technology</i> , <b>2013</b> , 213, 515-521	5.3	57
90	Anodic formation of self-organized Ti(Nb,Sn) oxide nanotube arrays with tuneable aspect ratio and size distribution. <i>Electrochemistry Communications</i> , <b>2013</b> , 33, 84-87	5.1	10
89	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
88	Nanoquasicrystalline AlBeCrNb alloys produced by powder metallurgy. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 577, 650-657	5.7	20
87	Obtaining self-organized nanotubes on biomedical TiMo alloys. <i>Electrochemistry Communications</i> , <b>2013</b> , 35, 139-141	5.1	28
86	Comparative study of nanoindentation on melt-spun ribbon and bulk metallic glass with Ni60Nb37B3 composition. <i>Journal of Materials Research</i> , <b>2013</b> , 28, 2740-2746	2.5	7
85	Microstructure and wear resistance of spray-formed supermartensitic stainless steel. <i>Materials Research</i> , <b>2013</b> , 16, 642-646	1.5	14
84	Formation and microstructure of Ni62-xNb38Tix (x = 3, 6, 10 at.%) bulk metallic glasses. <i>International Journal of Materials Research</i> , <b>2012</b> , 103, 1096-1101	0.5	5
83	Rapid solidification of an Al-5Ni alloy processed by spray forming. <i>Materials Research</i> , <b>2012</b> , 15, 779-785	1.5	7
82	Fatigue behavior and physical characterization of surface-modified Ti-6Al-4V ELI alloy by micro-arc oxidation. <i>Materials Research</i> , <b>2012</b> , 15, 305-311	1.5	17
81	Microstructural characterization of Ti-6Al-7Nb alloy after severe plastic deformation. <i>Materials Research</i> , <b>2012</b> , 15, 786-791	1.5	12
80	Microstructural evolution of Ti-6Al-7Nb alloy during high pressure torsion. <i>Materials Research</i> , <b>2012</b> , 15, 792-795	1.5	3
79	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	
78	Stability of an amorphous alloy of the Mm-Al-Ni-Cu system. <i>Materials Research</i> , <b>2012</b> , 15, 757-762	1.5	2
77	New Zr-based glass-forming alloys containing Gd and Sm. <i>Materials Research</i> , <b>2012</b> , 15, 723-727	1.5	1
76	Consolidation of the Cu46Zr42Al7Y5 amorphous ribbons and powder alloy by hot extrusion. <i>Materials Research</i> , <b>2012</b> , 15, 728-738	1.5	1
75	Overspray Powder Characterization of Fe-Based Glassy Alloy. <i>Materials Science Forum</i> , <b>2012</b> , 727-728, 468-475	0.4	1
74	Chemistry and tensile properties of a recycled AA7050 via spray forming and ECAP/E. <i>Materials Research</i> , <b>2012</b> , 15, 739-748	1.5	14

73	Ordered phases and texture in spray-formed Fe <sub>80</sub> wt%Si. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, S260-S264	5-7	16
72	Predicting glass-forming compositions in the Al <sub>100-x</sub> and Al <sub>100-x</sub> Ni systems. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, S170-S174	5-7	6
71	Topological instability and glass forming ability of Al <sub>100-x</sub> Ni <sub>x</sub> alloys. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, S141-S144	5-7	9
70	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
69	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
68	Microstructural characterization of high-silicon iron alloys produced by spray forming and co-injection of Si particles. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, S254-S259	5-7	7
67	Numerical evaluation of reduction of stress shielding in laser coated hip prostheses. <i>Materials Research</i> , <b>2011</b> , 14, 331-334	1-5	11
66	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> , <b>2011</b> , 109, 093509	2-5	9
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61	Hydrogen Sorption Properties of the Complex Hydride Mg <sub>2</sub> FeH <sub>6</sub> Consolidated by HPT. <i>Materials Science Forum</i> , <b>2010</b> , 667-669, 1053-1058	0-4	3
60	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
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53	Microstructural characterization of spray formed Fe66B30Nb4 alloy. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 495, 417-419	5.7	3
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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