

# Alberto M Jorge

## List of Publications by Year in descending order

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119  
papers

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citations

218677

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#	ARTICLE	IF	CITATIONS
1	Structural Features and Corrosion Resistance of Fe66Cr10Nb5B19 Metallic Glass Coatings Obtained by Detonation Spraying. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 622-630.	2.5	5
2	Wear-Resistant Fe-Based Metallic Glass-Al <sub>2</sub> O <sub>3</sub> Composite Coatings Produced by Detonation Spraying. <i>Journal of Thermal Spray Technology</i> , 2022, 31, 1355-1365.	3.1	8
3	An Overview of Thermally Sprayed Fe-Cr-Nb-B Metallic Glass Coatings: From the Alloy Development to the Coating's Performance Against Corrosion and Wear. <i>Journal of Thermal Spray Technology</i> , 2022, 31, 923-955.	3.1	6
4	Anodic growth and pre-calcification on $\hat{\text{T}}^2$ -Ti-40Nb alloy: Effects on elastic modulus, electrochemical properties, and bioactivity. <i>Ceramics International</i> , 2022, 48, 27575-27589.	4.8	7
5	Effect of hydrogen pick-up on the fatigue behavior of the $\hat{\text{T}}^2$ -type Ti-12Mo-6Zr-2Fe alloy with $\hat{\text{T}}^2$ -nanoprecipitation. <i>Materials Letters</i> , 2021, 282, 128740.	2.6	2
6	Interaction between Fe66Cr10Nb5B19 metallic glass and aluminum during spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 799, 140165.	5.6	21
7	The effect of surface laser texturing on the corrosion performance of the biocompatible $\hat{\text{T}}^2$ -Ti12Mo6Zr2Fe alloy. <i>Surface and Coatings Technology</i> , 2021, 405, 126628.	4.8	10
8	Hydrogen storage in MgAlTiFeNi high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2021, 858, 158357.	5.5	53
9	Characterization of Optimized TiO <sub>2</sub> Nanotubes Morphology for Medical Implants: Biological Activity and Corrosion Resistance. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 667-682.	6.7	13
10	Processing of Fe-Based Alloys by Detonation Spraying and Spark Plasma Sintering. <i>Journal of Thermal Spray Technology</i> , 2021, 30, 1692-1702.	3.1	5
11	Corrosion behaviour of biomedical $\hat{\text{T}}^2$ -titanium alloys with the surface-modified by chemical etching and electrochemical methods. <i>Corrosion Science</i> , 2021, 188, 109544.	6.6	14
12	Microstructure and Mechanical Properties of Composites Obtained by Spark Plasma Sintering of Al-Fe66Cr10Nb5B19 Metallic Glass Powder Mixtures. <i>Metals</i> , 2021, 11, 1457.	2.3	8
13	Assessment of anodization conditions and annealing temperature on the microstructure, elastic modulus, and wettability of $\hat{\text{T}}^2$ -Ti40Nb alloy. <i>Thin Solid Films</i> , 2021, 737, 138949.	1.8	8
14	Hot Deformation Behavior of a Beta Metastable TMZF Alloy: Microstructural and Constitutive Phenomenological Analysis. <i>Metals</i> , 2021, 11, 1769.	2.3	5
15	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.	5.5	20
16	Prediction of Generation of High- and Low-Angle Grain Boundaries (HAGB and LAGB) During Severe Plastic Deformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 4674-4684.	2.2	21
17	The influence of the O <sub>2</sub> /C <sub>2</sub> H <sub>2</sub> ratio on the structure and properties of Fe66Cr10Nb5B19 detonation coatings. <i>Materials Today: Proceedings</i> , 2020, 25, 384-386.	1.8	9
18	A novel operando approach to analyze the structural evolution of metallic materials during friction with application of synchrotron radiation. <i>Acta Materialia</i> , 2020, 196, 355-369.	7.9	10

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19	Outstanding Tensile Ductility in High Iron-Containing Al-Si-Cu Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 2703-2710.	2.2	8
20	Effect of Processing Conditions on the Microstructure, Mechanical Properties, and Corrosion Behavior of Two Austenitic Stainless Steels for Biointerface Applications. Metals, 2020, 10, 1311.	2.3	3
21	The Influence of Salt fog Exposure on Corrosion Resistance of Detonation Coatings Fe66Cr10Nb5B19. Metal Working and Material Science, 2020, 22, 95-105.	0.3	4
22	Effect of titanium nitride (TiN) on the corrosion behavior of a supermartensitic stainless steel. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 28-36.	1.5	8
23	Formation of Metallic Glass Coatings by Detonation Spraying of a Fe66Cr10Nb5B19 Powder. Metals, 2019, 9, 846.	2.3	16
24	Hydrogen storage properties of 2Mg-Fe mixtures processed by hot extrusion: Effect of ram speeds. International Journal of Hydrogen Energy, 2019, 44, 20203-20212.	7.1	2
25	Hydrogen desorption/absorption properties of the extensively cold rolled Ti-40Nb alloy. International Journal of Hydrogen Energy, 2019, 44, 20133-20144.	7.1	7
26	Surface anodization of the biphasic Ti13Nb13Zr biocompatible alloy: Influence of phases on the formation of TiO2 nanostructures. Journal of Alloys and Compounds, 2019, 796, 93-102.	5.5	31
27	Biological response of chemically treated surface of the ultrafine-grained Ti-6Al-7Nb alloy for biomedical applications. International Journal of Nanomedicine, 2019, Volume 14, 1725-1736.	6.7	19
28	Understanding the Interdependence of Penetration Depth and Deformation on Nanoindentation of Nanoporous Silver. Metals, 2019, 9, 1346.	2.3	5
29	Degradation of biodegradable implants: The influence of microstructure and composition of Mg-Zn-Ca alloys. Journal of Alloys and Compounds, 2019, 774, 168-181.	5.5	40
30	Characterization and Corrosion Resistance of Boron-Containing-Austenitic Stainless Steels Produced by Rapid Solidification Techniques. Materials, 2018, 11, 2189.	2.9	18
31	Crystallization Kinetics and Consolidation of Al82La10Fe4Ni4 Glassy Alloy Powder by Spark Plasma Sintering. Metals, 2018, 8, 812.	2.3	6
32	Synthesis of Ti-Ti-Nb alloys from elemental powders by high-energy ball milling and their hydrogenation features. International Journal of Hydrogen Energy, 2018, 43, 18382-18391.	7.1	8
33	Room temperature hydrogen absorption by Mg and Mg-TiFe nanocomposites processed by high-energy ball milling. International Journal of Hydrogen Energy, 2018, 43, 12251-12259.	7.1	32
34	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.	2.2	28
35	Thermal stability of ARMCO iron processed by ECAP. International Journal of Advanced Manufacturing Technology, 2018, 98, 2917-2932.	3.0	15
36	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.	5.5	16

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37	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> , 2017, 707, 281-286.	5.5	2
38	Effect of hydrogen on the fatigue behavior of the near- $\beta$ Ti-5Al-5Mo-5V-3Cr alloy. <i>Scripta Materialia</i> , 2017, 132, 39-43.	5.2	16
39	Novel micro-flat springs using the superior elastic properties of metallic glass foils. <i>Scripta Materialia</i> , 2017, 131, 84-88.	5.2	6
40	Thermomechanical controlled processing to achieve very fine grains in the ISO 5832-9 austenitic stainless steel biomaterial. <i>Materials Characterization</i> , 2017, 127, 153-160.	4.4	7
41	Hydrogen storage properties of 2Mg-Fe mixtures processed by hot extrusion at different temperatures. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 11493-11500.	7.1	7
42	Experimental and thermodynamic investigation of the microstructural evolution of a boron-rich Fe-Cr-Nb-B alloy. <i>Journal of Alloys and Compounds</i> , 2017, 713, 119-124.	5.5	4
43	Structural characterization and magnetic properties of Al <sub>82</sub> Fe <sub>16</sub> TM <sub>2</sub> (TM: Ti, Ni, Cu) alloys prepared by mechanical alloying. <i>Journal of Non-Crystalline Solids</i> , 2017, 468, 67-73.	3.1	8
44	High cooling rates and metastable phases at the interfaces of explosively welded materials. <i>Acta Materialia</i> , 2017, 135, 277-289.	7.9	184
45	Influence of morphology and crystalline structure of TiO <sub>2</sub> nanotubes on their electrochemical properties and apatite-forming ability. <i>Electrochimica Acta</i> , 2017, 245, 337-349.	5.2	65
46	Structural characterization and hydrogen storage properties of MgH <sub>2</sub> @Mg <sub>2</sub> CoH <sub>5</sub> nanocomposites. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 14593-14601.	7.1	17
47	Application of the transmission line model for porous electrodes to analyse the impedance response of TiO <sub>2</sub> nanotubes in physiological environment. <i>Electrochimica Acta</i> , 2017, 253, 599-608.	5.2	14
48	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> , 2017, 42, 21822-21831.	7.1	27
49	Composites of copper and cast iron fabricated via the liquid: In the vicinity of the limits of strength in a non-deformed condition. <i>Materials Characterization</i> , 2017, 130, 260-269.	4.4	9
50	Characterization of In-Situ Cu@TiH <sub>2</sub> @C and Cu@Ti@C Nanocomposites Produced by Mechanical Milling and Spark Plasma Sintering. <i>Metals</i> , 2017, 7, 117.	2.3	18
51	Ultrafine-Grained Ti-13Nb-13Zr Alloy Produced by Severe Plastic Deformation. <i>Materials Research</i> , 2017, 20, 404-410.	1.3	9
52	Severe Plastic Deformation and Additive Distribution in Mg-Fe to Improve Hydrogen Storage Properties. <i>Materials Research</i> , 2017, 20, 61-70.	1.3	8
53	Mg-based Nanocomposites for Hydrogen Storage Containing Ti-Cr-V Alloys as Additives. <i>Materials Research</i> , 2016, 19, 80-85.	1.3	19
54	Weight reduction of amorphous alloy core electrical transformers for aircraft applications. , 2016, , .		5

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55	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.	7.0	41
56	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> , 2016, 41, 23092-23098.	7.1	21
57	Nanoporous silver for electrocatalysis application in alkaline fuel cells. <i>Materials and Design</i> , 2016, 111, 528-536.	7.0	27
58	Severely deformed ZK60+2.5% Mm alloy for hydrogen storage produced by two different processing routes. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 11284-11292.	7.1	25
59	Hydrogen storage in heavily deformed ZK60 alloy modified with 2.5wt.% Mm addition. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 4177-4184.	7.1	23
60	Effect of phosphorus content on the mechanical, microstructure and corrosion properties of supermartensitic stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 650, 75-83.	5.6	21
61	Nanoporous titanium obtained from a spinodally decomposed Ti alloy. <i>Microporous and Mesoporous Materials</i> , 2016, 222, 23-26.	4.4	11
62	Fabrication of nanoporous silver with open pores. <i>Scripta Materialia</i> , 2015, 100, 21-23.	5.2	25
63	Preparation, characterization and photochromic behavior of phosphotungstic acid-ormosil nanocomposites. <i>Materials Chemistry and Physics</i> , 2015, 153, 410-421.	4.0	18
64	Nanoindentation response of Cu-Ti based metallic glasses: Comparison between as-cast, relaxed and devitrified states. <i>Journal of Non-Crystalline Solids</i> , 2015, 425, 103-109.	3.1	38
65	Interaction between recrystallization and strain-induced precipitation in a high Nb- and N-bearing austenitic stainless steel: Influence of the interpass time. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 637, 189-200.	5.6	27
66	Fabrication of nanoporous copper surface by leaching of chill-zone Cu-Zr-Hf alloys. <i>Scripta Materialia</i> , 2015, 104, 64-66.	5.2	2
67	Ni- and Cu-free Ti-based metallic glasses with potential biomedical application. <i>Intermetallics</i> , 2015, 63, 86-96.	3.9	25
68	Explosively welded multilayer Ni-Al composites. <i>Materials and Design</i> , 2015, 88, 1082-1087.	7.0	54
69	Crystallization of Fe <sub>83</sub> B <sub>17</sub> amorphous alloy by electric pulses produced by a capacitor discharge. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 120, 1565-1572.	2.3	4
70	Structure, Properties and Texturing of Ti-Ta-Mo Alloys Produced by Non-Vacuum Electron Beam Surface Alloying of Ti. <i>Applied Mechanics and Materials</i> , 2015, 788, 230-236.	0.2	2
71	Hot Consolidation of Partially Amorphous Cu-Ti Based Alloy: a Comparison Between Hot Extrusion and Hot Compaction by Sintering. <i>Materials Research</i> , 2015, 18, 448-452.	1.3	3
72	Ag ion decoration for surface modifications of multi-walled carbon nanotubes. <i>Materials Research</i> , 2014, 17, 687-693.	1.3	23

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73	New Criterion for Prediction of Amorphous Alloy Compositions: A Combination of Dense Packing of Spheres and the Lambda Criterion through the Coordination Number. Applied Mechanics and Materials, 2014, 698, 411-418.	0.2	2
74	Correlation between hydrogen storage properties and textures induced in magnesium through ECAP and cold rolling. International Journal of Hydrogen Energy, 2014, 39, 3810-3821.	7.1	63
75	Formation Routes of Nanocomposite Coatings in Detonation Spraying of Ti3SiC2-Cu Powders. Journal of Thermal Spray Technology, 2014, 23, 1116-1123.	3.1	3
76	Structure and deformation behavior of Zr-Cu thin films deposited on Kapton substrates. Surface and Coatings Technology, 2014, 239, 171-176.	4.8	9
77	Hydrogen storage properties of pure Mg after the combined processes of ECAP and cold-rolling. Journal of Alloys and Compounds, 2014, 586, S405-S408.	5.5	40
78	Hydrogen storage properties of 2Mg-Fe after the combined processes of hot extrusion and cold rolling. Journal of Alloys and Compounds, 2014, 586, S409-S412.	5.5	14
79	An investigation of hydrogen storage in a magnesium-based alloy processed by equal-channel angular pressing. International Journal of Hydrogen Energy, 2013, 38, 8306-8312.	7.1	96
80	Dynamic recovery and dynamic recrystallization competition on a Nb- and N-bearing austenitic stainless steel biomaterial: Influence of strain rate and temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 582, 96-107.	5.6	88
81	H-sorption properties and structural evolution of Mg processed by severe plastic deformation. Journal of Alloys and Compounds, 2013, 580, S187-S191.	5.5	27
82	Materials Research: Ibero-american Journal of Materials. Materials Research, 2013, 16, 563-564.	1.3	0
83	Ultra Grain Refinement During the Simulated Thermomechanical-processing of Low Carbon Steel. Journal of Materials Research and Technology, 2012, 1, 141-147.	5.8	19
84	Synthesis and hydrogen sorption properties of Mg <sub>2</sub> FeH <sub>6</sub> -MgH <sub>2</sub> nanocomposite prepared by reactive milling. Journal of Alloys and Compounds, 2012, 536, S250-S254.	5.5	26
85	A synchrotron X-ray diffraction study of hydrogen storage and enhanced sorption kinetics in a mini-tank of Mg with crystalline and amorphous catalytic particle additions. Journal of Alloys and Compounds, 2012, 540, 57-61.	5.5	6
86	Hydrogen storage properties of 2Mg-Fe mixtures processed by hot extrusion: Influence of the extrusion ratio. International Journal of Hydrogen Energy, 2012, 37, 15196-15203.	7.1	9
87	The formation of quasicrystal phase in Al-Cu-Fe system by mechanical alloying. Materials Research, 2012, 15, 749-752.	1.3	22
88	Microstructural characterization of Ti-6Al-7Nb alloy after severe plastic deformation. Materials Research, 2012, 15, 786-791.	1.3	15
89	Magnesium-Nickel alloy for hydrogen storage produced by melt spinning followed by cold rolling. Materials Research, 2012, 15, 813-817.	1.3	18
90	Microstructural evolution of Ti-6Al-7Nb alloy during high pressure torsion. Materials Research, 2012, 15, 792-795.	1.3	8

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91	Microstructure evolution of AA7050 Al alloy during Equal-Channel Angular Pressing. <i>Materials Research</i> , 2012, 15, 732-738.	1.3	3
92	Mg <sub>2</sub> FeH <sub>6</sub> -based nanocomposites with high capacity of hydrogen storage processed by reactive milling. <i>Materials Research</i> , 2012, 15, 229-235.	1.3	7
93	Consolidation of the Cu <sub>46</sub> Zr <sub>42</sub> Al <sub>7</sub> Y <sub>5</sub> amorphous ribbons and powder alloy by hot extrusion. <i>Materials Research</i> , 2012, 15, 728-738.	1.3	2
94	Hot deformation behavior of an Nb- and N-bearing austenitic stainless steel biomaterial. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 543, 69-75.	5.6	25
95	Physical properties of a natural lamellar aluminosilicate structure, rich in Fe. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 2306-2309.	2.3	0
96	2Mg-Fe 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> , 2011, 509, S460-S463.	5.5	19
97	2Mg-Fe and 2Mg-Fe+5%C mixtures processed by hot extrusion: Influence of carbon on hydrogen sorption properties. <i>Journal of Alloys and Compounds</i> , 2011, 509, S464-S467.	5.5	7
98	Ordered phases and texture in spray-formed Fe-5wt%Si. <i>Journal of Alloys and Compounds</i> , 2011, 509, S260-S264.	5.5	19
99	Nanostructured MgH <sub>2</sub> prepared by cold rolling and cold forging. <i>Journal of Alloys and Compounds</i> , 2011, 509, S444-S448.	5.5	54
100	Influence of the microstructure on the plastic behaviour of duplex stainless steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 2259-2264.	5.6	35
101	High Strength AA7050 Al alloy processed by ECAP: Microstructure and mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 5804-5811.	5.6	89
102	Nanoscale Grain Refinement and H <sub>2</sub> Sorption Properties of MgH <sub>2</sub> Processed by High-Pressure Torsion and Other Mechanical Routes. <i>Advanced Engineering Materials</i> , 2010, 12, 786-792.	3.5	82
103	Hydrogen Sorption Properties of the Complex Hydride Mg <sub>2</sub> FeH <sub>6</sub> Consolidated by HPT. <i>Materials Science Forum</i> , 2010, 667-669, 1053-1058.	0.3	3
104	Hydrogen Activation Behavior of Commercial Magnesium Processed by Different Severe Plastic Deformation Routes. <i>Materials Science Forum</i> , 2010, 667-669, 1047-1051.	0.3	15
105	Microstructural characterization and hydrogenation study of extruded MgFe alloy. <i>Journal of Alloys and Compounds</i> , 2010, 504, S299-S301.	5.5	19
106	EXTRUSÃO A QUENTE DE LIGAS DE ALUMÍNIO NANOESTRUTURADAS EM PÁ: EFEITO DA PRECIPITAÇÃO NO CONTROLE MICROESTRUTURAL. <i>Tecnologia Em Metalurgia E Materiais</i> , 2010, 7, 6-11.	0.1	0
107	Magnetic properties of spray-formed Fe-6.5%Si and Fe-6.5%Si-1.0%Al after rolling and heat treatment. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, e653-e656.	2.3	48
108	Effect of 4% titanium tetrafluoride solution on dental erosion by a soft drink: An in situ/ex vivo study. <i>Archives of Oral Biology</i> , 2008, 53, 399-404.	1.8	37

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109	Microstructure Evolution during Warm Deformation of Low Carbon Steel with Dispersed Cementite. Materials Science Forum, 2007, 558-559, 505-510.	0.3	1
110	Prediction of steel flow stresses under hot working conditions. Materials Research, 2005, 8, 309-315.	1.3	53
111	Evidence of Strain-Induced Precipitation on a Nb- and N-Bearing Austenitic Stainless Steel Biomaterial. Materials Science Forum, 2005, 500-501, 179-186.	0.3	14
112	Influence of deformation on the kinetics of phase transformation in a forging steel during warm working. Materials Research, 2004, 7, 247-253.	1.3	4
113	Effect of competing hardening and softening mechanisms on the flow stress curve modeling of ultra-low carbon steel at high temperatures. Journal of Materials Processing Technology, 2003, 142, 415-421.	6.3	42
114	Electromechanical Processing of Bulk Metallic Glasses. Journal of Metastable and Nanocrystalline Materials, 2003, 15-16, 11-16.	0.1	2
115	Hot Extrusion of Nanostructured Al Alloy Powder: Extrusion Ratio and Temperature Effect on the Microstructure and Mechanical Properties. Materials Science Forum, 0, 570, 91-96.	0.3	1
116	Processing and Simulation for Consolidation of Nanostructured Al-Cu Powder Alloys. Materials Science Forum, 0, 570, 97-102.	0.3	1
117	2Mg-Fe Alloy Processed by Hot Extrusion: Influence of Particle Size and Extrusion Reduction Ratio on Hydrogenation Properties. Materials Science Forum, 0, 691, 3-9.	0.3	2
118	Analysis of Recrystallization and Strain-Induced Precipitation on High Nb- and N-Bearing Austenitic Stainless Steel. Advanced Materials Research, 0, 922, 700-705.	0.3	2
119	Surface Plasma Nitriding of Beta-Titanium Alloy Bio-Material. Key Engineering Materials, 0, 813, 328-333.	0.4	4