Jorge Otubo

List of Publications by Year
in descending order

53 papers	690 citations	759233 12 h-index	610901 24 g-index
53 all docs	53 docs citations	53 times ranked	645 citing authors

#	Article	IF	Citations
1	Characterization of passive films on shape memory stainless steels. Corrosion Science, 2012, 57, 154-161.	6.6	157
2	The purification of metallurgical grade silicon by electron beam melting. Journal of Materials Processing Technology, 2005, 169, 16-20.	6.3	103
3	High-temperature creep resistance and effects on the austenite reversion and precipitation of 18 Ni (300) maraging steel. Materials Characterization, 2015, 107, 350-357.	4.4	41
4	Influence of alloying elements on the corrosion properties of shape memory stainless steels. Materials Chemistry and Physics, 2012, 133, 668-673.	4.0	35
5	Corrosion behavior of shape memory stainless steel in acid media. Journal of Alloys and Compounds, 2011, 509, 5376-5380.	5.5	29
6	Low carbon content NiTi shape memory alloy produced by electron beam melting. Materials Research, 2004, 7, 263-267.	1.3	28
7	Ferrite Quantification Methodologies for Duplex Stainless Steel. Journal of Aerospace Technology and Management, 2016, 8, 357-362.	0.3	26
8	Influence of Austenite Grain Size on Mechanical Properties of Stainless SMA. Materials Transactions, 2002, 43, 916-919.	1.2	25
9	Rapid Obtaining of Nano-Hydroxyapatite Bioactive Films on NiTi Shape Memory Alloy by Electrodeposition Process. Journal of Materials Engineering and Performance, 2011, 20, 793-797.	2.5	23
10	Surface modification of NiTi by plasma based ion implantation for application in harsh environments. Applied Surface Science, 2012, 263, 763-768.	6.1	17
11	Short-term Creep Properties and Fracture Surface of 18 Ni (300) Maraging Steel Plasma Nitrided. Materials Research, 2017, 20, 2-9.	1.3	14
12	Construction of a Morphing Wing Rib Actuated by a NiTi Wire. Journal of Aerospace Technology and Management, 2015, 7, 454-464.	0.3	13
13	Mechanical reliability of TWIP steel spot weldings. Journal of Materials Processing Technology, 2019, 266, 662-674.	6.3	13
14	Determination of Ni Release in NiTi SMA with Surface Modification by Nitrogen Plasma Immersion Ion Implantation. Journal of Materials Engineering and Performance, 2011, 20, 798-801.	2.5	11
15	Shape Memory Properties of Ultrafine-Grained Austenitic Stainless Steel. Materials Science Forum, 0, 738-739, 496-500.	0.3	10
16	Microstructural Analysis of Co-Free Maraging Steel Aged. Journal of Aerospace Technology and Management, 2014, 6, 389-394.	0.3	10
17	Designing NiTiAg Shape Memory Alloys by Vacuum Arc Remelting: First Practical Insights on Melting and Casting. Shape Memory and Superelasticity, 2018, 4, 402-410.	2.2	10
18	Characterization and Corrosion Resistance Behavior of Shape Memory Stainless Steel Developed by Alternate Routes. Metals, 2020, 10, 13.	2.3	10

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19	Grain size effect on the structural parameters of the stress induced epsilonhcp: martensite in iron-based shape memory alloy. Materials Research, 2008, 11, 63-67.	1.3	9
20	Roughness studies of NiTi shape memory alloy treated by nitrogen plasma based ion implantation at high temperatures. Surface and Coatings Technology, 2012, 211, 209-212.	4.8	8
21	Hybrid processing of Ti-6Al-4V using plasma immersion ion implantation combined with plasma nitriding. Materials Research, 2006, 9, 97-100.	1.3	7
22	Shape Recovery in Stainless FeMnSiCrNi(-Co) SMA Processed by ECAE. Materials Science Forum, 0, 738-739, 252-256.	0.3	7
23	O efeito do tamanho de grÃ£o austenÃtico no nÃºmero de orientaÃ§Ãµes das variantes de martensita em ligas inoxidÃ¡veis com efeito de memÃ³ria de forma. Revista Escola De Minas, 2007, 60, 129-134.	0.1	6
24	Reverse strain-induced martensitic transformation of the ferrite to austenite in duplex stainless steels. Journal of Materials Science, 2016, 51, 10452-10463.	3.7	6
25	Characterization of 150mm in Diameter NiTi SMA Ingot Produced by Electron Beam Melting. Materials Science Forum, 2010, 643, 55-59.	0.3	5
26	Influence of Thermomechanical Processing on the Martensitic Transformation Temperatures of NiTi SMA Wire. Materials Science Forum, 2010, 643, 43-48.	0.3	5
27	High shape recovery Niâ€“Ti SMA wire produced from electron beam melted ingot. Journal of Alloys and Compounds, 2013, 577, S265-S267.	5.5	5
28	ECAE processed NiTi shape memory alloy. Materials Research, 2014, 17, 186-190.	1.3	5
29	Microstructural evaluation on shape recovery in stainless Fe-Mn-Si-Cr-Ni-Co SMA processed by wire drawing. Materials Research, 2014, 17, 583-587.	1.3	5
30	The influence of carbon content on cyclic fatigue of NiTi SMA wires. International Endodontic Journal, 2011, 44, 567-573.	5.0	4
31	Investigation of Ni-and Ti-content influence on microstructure and phase transformation behavior of NiTi SMA alloyed with Ag. MATEC Web of Conferences, 2015, 33, 03009.	0.2	4
32	Effect of Spun Velocities and Composition on the Microstructure and Transformation Temperatures of TiNi Shape Memory Ribbons. Materials Research, 2016, 19, 1132-1137.	1.3	4
33	Hot Tensile Behavior and Fracture Characteristics of a Plasma Nitrided Maraging 300 Steel. Materials Science Forum, 0, 899, 436-441.	0.3	4
34	Processing-induced residual stresses in TWIP steel weld spots. Materials and Manufacturing Processes, 2020, 35, 572-578.	4.7	4
35	The fracture evaluation of NiTi SMA endodontics files. Materials Research, 2007, 10, 395-398.	1.3	3
36	Effect of Plasma Nitriding on Creep Behavior at 550 Â°C of a Maraging Steel (300 Grade) Solution Annealed. Materials Science Forum, 2014, 802, 452-456.	0.3	3

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37	Effect of Simultaneous Plasma Nitriding and Aging Treatment on the Microstructure and Hardness of Maraging 300 Steel. Advanced Structured Materials, 2015, , 277-284.	0.5	3
38	A influÃªncia da ferrita delta em aÃ§os inoxidÃ¡veis austenÃ‡ticos forjados. Revista Escola De Minas, 2010, 63, 57-63.	0.1	2
39	Corrosion Behavior of Fe-Mn-Si-Cr-Ni-Co Shape Memory Stainless Steel in Highly Oxidizing Medium. Materials Science Forum, 0, 869, 669-674.	0.3	2
40	Characterization of a NiTi SMA wire treated by nitrogen plasma based ion implantation (PBII). Procedia Structural Integrity, 2016, 2, 1443-1450.	0.8	2
41	The Influence of Microstructure and Mechanical Resistance on the Shape Memory of Ecae Processed Stainless Fe-Mn-Si-Cr-Ni-Co Steel. Materials Research, 2018, 21, .	1.3	2
42	Microstructure Evolution and Failure Modes of a Resistance Spot Welded TWIP Steel. Soldagem E Inspecao, 2018, 23, 460-473.	0.6	2
43	The Wire Drawing Mechanics of Near-Equiatomic NiTi SMA. Materials Research, 2018, 21, .	1.3	2
44	AVALIAÃ‡ÃƒO DAS PROPRIEDADES DE FLUÃŠNCIA A 600 Â°C DO AÃ‡O MARAGING 300 SOLUBILIZADO. Tecnologia Em Metalurgia, Materiais E Mineracao, 2014, 11, 22-26.	0.2	2
45	DeterminaÃ§Ã£o das propriedades mecÃ¢nicas da martensita-Îµ por indentaÃ§Ã£o instrumentada em ligas inoxidÃ¡veis com memÃ³ria de forma. Revista Escola De Minas, 2010, 63, 39-44.	0.1	1
46	Recovery Mechanisms in a Compressed Ni-Ti Superelastic Alloy. Materials Research, 2018, 21, .	1.3	1
47	Estudo do efeito de memÃ³ria de forma em ligas inoxidÃ¡veis usando ensaio de compressÃ£o. Revista Escola De Minas, 2010, 63, 493-499.	0.1	1
48	HYBRID NiTi SMA/400 GRADE MARAGING SPRING ACTUATOR â€“ CONCEPT DESIGN. , 0, , .		1
49	A influÃªncia do tempo e da temperatura de austenitizaÃ§Ã£o e da composiÃ§Ã£o quÃmica na microestrutura de ligas inoxidÃ¡veis com efeito de memÃ³ria de forma. Revista Escola De Minas, 2010, 63, 33-37.	0.1	0
50	Preliminary Results of Stress Recovery of Constrained NiTi SMA Wire for Aerospace Applications. Materials Science Forum, 2010, 643, 15-18.	0.3	0
51	Abrasive Wear of Fe-Mn-Si-Cr-Ni Shape Memory Stainless Steel: Preliminary Results. Journal of Materials Engineering and Performance, 2011, 20, 679-683.	2.5	0
52	Effect of Spun Velocities and Composition on the Râ€'phase and Thermomechanical Behavior in Tiâ€'Ni Ribbons Electrically Heated. Materials Research, 2016, 19, 580-587.	1.3	0
53	PROJETO, FABRICAÃ‡ÃƒO E QUALIFICAÃ‡ÃƒO DE EQUIPAMENTO PARA FLEXÃƒO ROTATIVA DE FIOS SUPERELÃSTICOS DE NITI EM ENSAIOS DE FADIGA. Tecnologia Em Metalurgia, Materiais E Mineracao, 2014, 11, 14-21.	0.2	0