Denis Jorge-Badiola

List of Publications by Year
in descending order

31 papers	633 citations	687220 13 h-index	580701 25 g-index
31 all docs	31 docs citations	31 times ranked	419 citing authors

#	Article	IF	Citations
1	Study by EBSD of the development of the substructure in a hot deformed 304 stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 394, 445-454.	2.6	125
2	Evaluation of intragranular misorientation parameters measured by EBSD in a hot worked austenitic stainless steel. Journal of Microscopy, 2007, 228, 373-383.	0.8	58
3	Phase Transformation Study in Nb-Mo Microalloyed Steels Using Dilatometry and EBSD Quantification. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 3552-3563.	1.1	49
4	Microstructural Features Controlling Mechanical Properties in Nb-Mo Microalloyed Steels. Part II: Impact Toughness. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 4972-4982.	1.1	46
5	Effect of Composition and Deformation on Coarse-Grained Austenite Transformation in Nb-Mo Microalloyed Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3729-3742.	1.1	44
6	Microstructural and precipitation characterization in Nb-Mo microalloyed steels: Estimation of the contributions to the strength. Metals and Materials International, 2014, 20, 807-817.	1.8	42
7	Study of the strain reversal effect on the recrystallization and strain-induced precipitation in a Nb-microalloyed steel. Acta Materialia, 2004, 52, 333-341.	3.8	41
8	Microstructural Features Controlling Mechanical Properties in Nb-Mo Microalloyed Steels. Part I: Yield Strength. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 4960-4971.	1.1	38
9	Flow stress behaviour, static recrystallisation and precipitation kinetics in a Nb-microalloyed steel after a strain reversal. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 344, 340-347.	2.6	25
10	Effect of the strain reversal on austeniteâ€“ferrite phase transformation in a Nb-microalloyed steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 934-940.	2.6	23
11	Assessing the recovery and recrystallization kinetics of cold rolled microalloyed steel through coercive field measurements. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 691, 42-50.	2.6	17
12	An EBSD-based methodology for the characterization of intercritically deformed low carbon steel. Materials Characterization, 2019, 147, 31-42.	1.9	17
13	Austenite Static Recrystallization Kinetics in Microalloyed B Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 3150-3164.	1.1	15
14	Influence of Thermomechanical Processing on the Austeniteâ€“Pearlite Transformation in High Carbon Vanadium Microalloyed Steels. ISIJ International, 2010, 50, 546-555.	0.6	14
15	Analysis of Complex Steel Microstructures by High-Resolution EBSD. Jom, 2016, 68, 215-223.	0.9	10
16	The limit of hot isostatic pressing for healing cracks present in an additively manufactured nickel superalloy. Journal of Materials Processing Technology, 2022, 300, 117398.	3.1	10
17	Study of Recrystallization in High Manganese Steels by Means of the EBSD Technique. Materials Science Forum, 2013, 753, 443-448.	0.3	9
18	Austempering in low-C steels: microstructure development and nanohardness characterization. Journal of Materials Science, 2019, 54, 5044-5060.	1.7	9

#	Article	IF	Citations
19	Role of Vanadium Microalloying in Austenite Conditioning and Pearlite Microstructure in Thermomechanically Processed Eutectoid Steels. ISIJ International, 2009, 49, 1615-1623.	0.6	9
20	EBSD characterization of a hot worked 304 austenitic stainless steel under strain reversal. Journal of Microscopy, 2009, 235, 36-49.	0.8	8
21	Modeling of CCT Diagrams and Ferrite Grain Size Prediction in Low Carbon Nbâ€"Mo Microalloyed Steels. ISIJ International, 2015, 55, 1963-1972.	0.6	6
22	Substructure Development and Damage Initiation in a Carbide-Free Bainitic Steel upon Tensile Test. Metals, 2019, 9, 1261.	1.0	6
23	Effect of the Strain Reversal on the Microstructure and the Recrystallization Kinetics of the Austenite. Materials Science Forum, 2004, 467-470, 275-280.	0.3	3
24	Effect of the Strain Reversal on Grain Boundary Character and Substructure Development on a Hot Worked Austenitic Stainless Steel. Materials Science Forum, 2005, 495-497, 1031-1036.	0.3	3
25	Combined Model to Describe Both the Mechanical and Microstructural Transients under a Reversal of Strain. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 2633-2642.	1.1	2
26	Tensile Work Hardening Modeling of Precipitation Strengthened Nb-Microalloyed Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 2943-2948.	1.1	2
27	Grain boundary engineering in a thermo-mechanically processed Nb-stabilized austenitic stainless steel. IOP Conference Series: Materials Science and Engineering, 2015, 82, 012113.	0.3	1
28	Influence of the Processing Variables on the Microstructure Evolution of a Bainitic Carbide-Free Steel. Materials Science Forum, 2016, 879, 867-872.	0.3	1
29	A Step Forward in the Understanding of the Strain Reversal Effect on the Recrystallization Kinetics after Hot Working. Materials Science Forum, 2012, 715-716, 643-648.	0.3	0
30	Discussion on the microstructural transients during strain reversal based on the effective equivalent strain concept. Journal of Materials Science, 2013, 48, 1480-1491.	1.7	0
31	Interpretation of the magnetic susceptibility behaviour of soft carbon steels based on the scaling theory of second order phase transitions for systems with supercritical disorder. Journal of Magnetism and Magnetic Materials, 2022, , 169265.	1.0	0