Jessica Calvo MuÃ±oz

List of Publications by Year
in descending order

46 papers	954 citations	567144 15 h-index	454834 30 g-index
46 all docs	46 docs citations	46 times ranked	675 citing authors

#	Article	IF	Citations
1	Dynamic recrystallization mechanisms and twining evolution during hot deformation of Inconel 718. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 678, 137-152.	2.6	182
2	Microstructural evolution and constitutive equations of Inconel 718 alloy under quasi-static and quasi-dynamic conditions. Materials and Design, 2016, 94, 28-38.	3.3	74
3	Hot ductility behavior of high-Mn austenitic Feâ€“22Mnâ€“1.5Alâ€“1.5Siâ€“0.45C TWIP steels microalloyed with Ti and V. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 611, 77-89.	2.6	62
4	High-temperature deformation of delta-processed Inconel 718. Journal of Materials Processing Technology, 2018, 255, 204-211.	3.1	60
5	Effect of Nb and Mo on the hot ductility behavior of a high-manganese austenitic Feâ€“21Mnâ€“1.3Alâ€“1.5Siâ€“0.5C TWIP steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 616, 229-239.	2.6	50
6	Influence of the chemical composition on transformation behaviour of low carbon microalloyed steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 520, 90-96.	2.6	45
7	Identification of fracture toughness parameters to understand the fracture resistance of advanced high strength sheet steels. Engineering Fracture Mechanics, 2020, 229, 106949.	2.0	45
8	On the correlation between fracture toughness and crash resistance of advanced high strength steels. Engineering Fracture Mechanics, 2019, 205, 319-332.	2.0	40
9	Effect of Ti and B microadditions on the hot ductility behavior of a High-Mn austenitic Feâ€“23Mnâ€“1.5Alâ€“1.3Siâ€“0.5C TWIP steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 648, 311-329.	2.6	38
10	Fracture Resistance of Advanced High-Strength Steel Sheets for Automotive Applications. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 840-856.	1.1	32
11	Characterization of Strain-Induced Precipitation in Inconel 718 Superalloy. Journal of Materials Engineering and Performance, 2016, 25, 3409-3417.	1.2	31
12	Evaluation of the Hot Ductility of a C–Mn Steel Produced from Scrap Recycling. ISIJ International, 2007, 47, 1518-1526.	0.6	27
13	Equal channel angular pressing of a TWIP steel: microstructure and mechanical response. Journal of Materials Science, 2017, 52, 6291-6309.	1.7	26
14	Microstructural effects on fracture toughness of ultra-high strength dual phase sheet steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140631.	2.6	26
15	Plastic deformation and damage induced by fatigue in TWIP steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 410-418.	2.6	20
16	Twin-Induced Plasticity of an ECAP-Processed TWIP Steel. Journal of Materials Engineering and Performance, 2017, 26, 554-562.	1.2	17
17	EBSD Study of Delta-Processed Ni-Based Superalloy. Metals, 2020, 10, 1466.	1.0	15
18	Effect of the thermal cycle on the hot ductility and fracture mechanisms of a Câ€“Mn steel. Engineering Failure Analysis, 2007, 14, 374-383.	1.8	14

#	Article	IF	Citations
19	Effect of V on Hot Deformation Characteristics of TWIP Steels. Steel Research International, 2012, 83, 334-339.	1.0	14
20	Assessing edge cracking resistance in AHSS automotive parts by the Essential Work of Fracture methodology. Journal of Physics: Conference Series, 2017, 896, 012102.	0.3	14
21	Strengthening of HSLA steels by cool deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4233-4240.	2.6	13
22	Design of Microalloyed Steel Hot Rolling Schedules by Torsion Testing: Average Schedule vs. Real Schedule. ISIJ International, 2010, 50, 1193-1199.	0.6	12
23	Analysis of strain-induced precipitates by delta-processing in Inconel 718 superalloy. Materials Characterization, 2021, 173, 110926.	1.9	11
24	Stressâ€“strain response and microstructural evolution of a FeMnCAl TWIP steel during tensionâ€“compression tests. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 655, 310-320.	2.6	10
25	Analysis of Copper Effect on Microstructures and Mechanical Properties in Microalloyed Steels. ISIJ International, 2008, 48, 107-113.	0.6	9
26	Influence of laser cutting on the fatigue limit of two high strength steels*. Materialpruefung/Materials Testing, 2015, 57, 136-140.	0.8	7
27	Nucleation and Growth of Precipitates in a V-Microalloyed Steel According to Physical Theory and Experimental Results. Physics of Metals and Metallography, 2020, 121, 32-40.	0.3	7
28	The Effect of Pre-Annealing on the Evolution of the Microstructure and Mechanical Behavior of Aluminum Processed by a Novel SPD Method. Materials, 2020, 13, 2361.	1.3	6
29	Microstructural analysis of a partially recrystallized nickel-based superalloy undergoing delta-processing. Journal of Alloys and Compounds, 2022, 907, 164403.	2.8	6
30	Phase transformation under thermal fatigue of high Mn-TWIP steel: Microstructure and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 677, 431-437.	2.6	5
31	Characterization of Precipitation Kinetics of Inconel 718 Superalloy by the Stress Relaxation Technique. Materials Science Forum, 0, 706-709, 2393-2399.	0.3	4
32	High-Temperature Deformation of Inconel 718PlusTM. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	0.5	4
33	Theoretical and Experimental Nucleation and Growth of Precipitates in a Medium Carbonâ€“Vanadium Steel. Metals, 2017, 7, 45.	1.0	4
34	Novel Method of Severe Plastic Deformation - Continuous Closed Die Forging: CP Aluminum Case Study. Defect and Diffusion Forum, 2018, 385, 302-307.	0.4	4
35	Metal injection moulding (MIM) as an alternative fabrication process for the production of TWIP steel. Powder Metallurgy, 2019, 62, 205-211.	0.9	4
36	Effect of Sandblasting on Low and High-Cycle Fatigue Behaviour after Mechanical Cutting of a Twinning-Induced Plasticity Steel. MATEC Web of Conferences, 2018, 165, 18002.	0.1	3

#	Article	IF	Citations
37	Enhancement of pitting corrosion resistance for AA1050 processed by continuous closed die forging. Journal of Materials Research and Technology, 2020, 9, 13185-13195.	2.6	3
38	High-Temperature Deformation Behavior of 718Plus: Consideration of Î³â€² Effects. Materials Performance and Characterization, 2020, 9, 20190031.	0.2	3
39	Classical controlled rolling of low C steels microalloyed with Ti and Mo. International Journal of Materials Research, 2014, 105, 537-543.	0.1	2
40	Microstructure and Mechanical Properties of Linear Friction Welded Titanium Subjected to ECAP. Reviews on Advanced Materials Science, 2018, 57, 104-109.	1.4	2
41	Hot ductility and fracture mechanisms of a structural steel. Revista De Metalurgia, 2006, 42, .	0.1	2
42	Study of the Hot Ductility and Fracture Mechanisms of a Medium Carbon Steel. Materials Science Forum, 2003, 442, 49-54.	0.3	1
43	Effect of Cool Deformation on the Mechanical Properties of Low C Microalloyed Steels. , 2008, , .		0
44	Analysis of Hot Tensile and Compression Curves to Assess the Hot Ductility of C-Mn Steels. Materials Science Forum, 2010, 638-642, 3158-3163.	0.3	0
45	High Temperature Deformation of Inconel 718Plusâ„¢. , 2016, , .		0
46	A Physically Based Model for High Temperature Deformation of Inconel 718Plusâ„¢. , 2017, , .		0