

Javier Aldazabal

List of Publications by Year in descending order

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papers

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759233

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19
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42
all docs

42
docs citations

42
times ranked

388
citing authors

#	ARTICLE	IF	CITATIONS
1	Ductilization of nanocrystalline materials for structural applications. Scripta Materialia, 2004, 51, 795-800.	5.2	71
2	Hall-Petch behaviour induced by plastic strain gradients. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 365, 186-190.	5.6	27
3	Molecular dynamics simulation of crack tip blunting in opposing directions along a symmetrical tilt grain boundary of copper bicrystal. Fatigue and Fracture of Engineering Materials and Structures, 2007, 30, 1008-1015.	3.4	21
4	Simulation of liquid phase sintering using the Monte Carlo method. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 365, 151-155.	5.6	20
5	Strengthening by intermetallic nanoprecipitation in Fe-Cr-Al-Ti alloy. Acta Materialia, 2016, 107, 27-37.	7.9	20
6	Advanced FeCrAl ODS steels for high-temperature structural applications in energy generation systems. Revista De Metalurgia, 2012, 48, 303-316.	0.5	19
7	Atomistic simulation of tensile strength and toughness of cracked Cu nanowires. Fatigue and Fracture of Engineering Materials and Structures, 2006, 29, 615-622.	3.4	17
8	Definition and validation of Eurocode 3 FAT classes for structural steels containing oxy-fuel, plasma and laser cut holes. International Journal of Fatigue, 2016, 87, 50-58.	5.7	17
9	Characterization of heat affected zones produced by thermal cutting processes by means of Small Punch tests. Materials Characterization, 2016, 119, 55-64.	4.4	16
10	Gelatin Blends Enhance Performance of Electrospun Polymeric Scaffolds in Comparison to Coating Protocols. Polymers, 2022, 14, 1311.	4.5	16
11	Three-Dimensional Bioprinting Scaffolding for Nasal Cartilage Defects: A Systematic Review. Tissue Engineering and Regenerative Medicine, 2021, 18, 343-353.	3.7	15
12	Simulation of the microstructural evolution during liquid phase sintering using a geometrical Monte Carlo model. Modelling and Simulation in Materials Science and Engineering, 2005, 13, 1057-1070.	2.0	14
13	Fatigue behaviour of structural steels with oxy-fuel, plasma and laser cut straight edges. Definition of Eurocode 3 FAT classes. Engineering Structures, 2016, 111, 152-161.	5.3	13
14	Fatigue Performance of Thermally Cut Bolt Holes in Structural Steel S460M. Procedia Engineering, 2015, 133, 590-602.	1.2	12
15	Geometrical Monte Carlo model of liquid-phase sintering. Mathematics and Computers in Simulation, 2010, 80, 1469-1486.	4.4	11
16	Contractile force assessment methods for in vitro skeletal muscle tissues. ELife, 0, 11, .	6.0	11
17	Hydrogen Embrittlement Susceptibility of R4 and R5 High-Strength Mooring Steels in Cold and Warm Seawater. Metals, 2018, 8, 700.	2.3	9
18	Mechanical and Microstructural Features of Plasma Cut Edges in a 15 mm Thick S460M Steel Plate. Metals, 2018, 8, 447.	2.3	9

#	ARTICLE	IF	CITATIONS
19	Computer Simulation of Scaffold Degradation. Journal of Physics: Conference Series, 2010, 252, 012004.	0.4	8
20	Murine femur micro-computed tomography and biomechanical datasets for an ovariectomy-induced osteoporosis model. Scientific Data, 2021, 8, 240.	5.3	7
21	Deterministic model for ice cream solidification. Computational Materials Science, 2006, 38, 9-21.	3.0	6
22	Diffusion simulation of Cr-Fe bcc systems at atomic level using a random walk algorithm. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1337-1342.	1.8	6
23	Resilience and ductility of Oxy-fuel HAZ cut. Frattura Ed Integrita Strutturale, 2014, 8, 14-22.	0.9	6
24	Plastic deformation by conservative shear-coupled migration of tilt boundaries with intergranular nano-cracks or precipitates. Philosophical Magazine, 2010, 90, 3743-3756.	1.6	5
25	Diffusional Monte Carlo model of liquid-phase sintering. Mathematics and Computers in Simulation, 2011, 81, 2564-2580.	4.4	5
26	Molecular and Cellular Mechanisms of Delayed Fracture Healing in <i>Mmp10</i> Knockout Mice. Journal of Bone and Mineral Research, 2021, 36, 2203-2213.	2.8	5
27	Couple stresses and the fracture of rock. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140120.	3.4	4
28	Atomistic simulation of the elongation response of a $\langle 011 \rangle$ oriented columnar nano-grain bcc Fe polycrystalline sample. Meccanica, 2016, 51, 401-413.	2.0	4
29	Elasto-plastic behaviour of a columnar structure of nanocrystalline iron with sharp $\langle 011 \rangle$ fibre texture. Materialia, 2018, 2, 218-230.	2.7	4
30	Computer Simulation of C-N-V Precipitates Evolution Based on Local Concentration Fluctuations. Materials Science Forum, 2005, 500-501, 719-728.	0.3	3
31	Simulation of V(CN) Precipitation in Steels Allowing for Local Concentration Fluctuations. Materials Transactions, 2006, 47, 2732-2736.	1.2	3
32	Hydrogen Assisted Fracture of 30MnB5 High Strength Steel: A Case Study. Metals, 2020, 10, 1613.	2.3	3
33	A mesoscopic plasticity model accounting for spatial fluctuations of plastic strains, internal stresses and dislocation densities. International Journal of Materials Research, 2002, 93, 681-688.	0.8	3
34	Mode II loading behaviour of intergranular cracks lying on a $\{17(530)\}/[001]$ symmetrical tilt boundary in copper. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2107-2112.	0.8	2
35	Rational Design of Artificial Cellular Niches for Tissue Engineering. Computational Methods in Applied Sciences (Springer), 2014, , 129-147.	0.3	2
36	Fatigue Behavior of High Strength Steel S890Q Containing Thermally Cut Straight Edges. Procedia Engineering, 2016, 160, 246-253.	1.2	1

#	ARTICLE	IF	CITATIONS
37	A comparison of the structure and mechanical properties of commercially pure tungsten rolled plates for the target of the European spallation source. International Journal of Refractory Metals and Hard Materials, 2018, 70, 45-55.	3.8	1
38	Size Effect in the Shear-Coupled Migration of Grain Boundaries Pinned by Triple Junctions. Materials Research Society Symposia Proceedings, 2009, 1224, 1.	0.1	0
39	Plastically-Induced Volume Deformation of Nanocrystalline $\hat{\pm}$ -Fe with a $\langle 110 \rangle$ Columnar Structure. Metals, 2020, 10, 1649.	2.3	0
40	Modelizaci3n por diferencias finitas aplicada a la interpretaci3n del agrietamiento asistido por hidr3geno utilizando ensayos virtuales de tracci3n a baja velocidad de deformaci3n. Revista De Metalurgia, 2021, 57, e198.	0.5	0
41	Influence of the Laser Deposited 316L Single Layers on Corrosion in Physiological Media. Metals, 2022, 12, 1047.	2.3	0