

Carmen M Cepeda-Jiménez

List of Publications by Year in descending order

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62
papers

1,961
citations

196777

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299063

42
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62
docs citations

62
times ranked

1650
citing authors

#	ARTICLE	IF	CITATIONS
1	The relation between ductility at high temperature and solid solution in Mg alloys. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 224-238.	5.5	16
2	Origin of the low precipitation hardening in magnesium alloys. <i>Acta Materialia</i> , 2019, 165, 164-176.	3.8	80
3	Understanding the high temperature reversed yield asymmetry in a Mg-rare earth alloy by slip trace analysis. <i>Acta Materialia</i> , 2018, 145, 264-277.	3.8	57
4	Grain size versus microstructural stability in the high strain rate superplastic response of a severely friction stir processed Al-Zn-Mg-Cu alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 680, 329-337.	2.6	36
5	Tuning the magnetic properties of pure hafnium by high pressure torsion. <i>Acta Materialia</i> , 2017, 123, 206-213.	3.8	14
6	Controlling the high temperature mechanical behavior of Al alloys by precipitation and severe straining. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 679, 36-47.	2.6	5
7	Microstructure, mechanical properties and creep of magnesium alloy Elektron21 reinforced with AlN nanoparticles by ultrasound-assisted stirring. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 659, 84-92.	2.6	52
8	Influence of the Accumulative Roll Bonding Process Severity on the Microstructure and Superplastic Behaviour of 7075 Al Alloy. <i>Journal of Materials Science and Technology</i> , 2016, 32, 774-782.	5.6	27
9	Microplasticity-based rationalization of the room temperature yield asymmetry in conventional polycrystalline Mg alloys. <i>Acta Materialia</i> , 2016, 108, 304-316.	3.8	52
10	Onset of room temperature ferromagnetism by plastic deformation in three paramagnetic pure metals. <i>Scripta Materialia</i> , 2016, 118, 41-45.	2.6	6
11	EBSD-Assisted Slip Trace Analysis During In Situ SEM Mechanical Testing: Application to Unravel Grain Size Effects on Plasticity of Pure Mg Polycrystals. <i>Jom</i> , 2016, 68, 116-126.	0.9	29
12	Strategy for severe friction stir processing to obtain acute grain refinement of an Al-Zn-Mg-Cu alloy in three initial precipitation states. <i>Materials Characterization</i> , 2016, 112, 197-205.	1.9	38
13	Strength ceiling smashed for light metals. <i>Nature</i> , 2015, 528, 486-487.	13.7	16
14	Origin of the twinning to slip transition with grain size refinement, with decreasing strain rate and with increasing temperature in magnesium. <i>Acta Materialia</i> , 2015, 88, 232-244.	3.8	127
15	Effect of grain size on slip activity in pure magnesium polycrystals. <i>Acta Materialia</i> , 2015, 84, 443-456.	3.8	187
16	Prominent role of basal slip during high-temperature deformation of pure Mg polycrystals. <i>Acta Materialia</i> , 2015, 85, 1-13.	3.8	48
17	Influence of microstructural stability on the creep mechanism of Al-7wt% Si alloy processed by equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 612, 162-171.	2.6	16
18	Role of particles on microstructure and mechanical properties of the severely processed 7075 aluminium alloy. <i>Journal of Materials Science</i> , 2014, 49, 833-841.	1.7	9

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19	Evolution of the microstructure, texture and creep properties of the 7075 aluminium alloy during hot accumulative roll bonding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 606, 434-442.	2.6	31
20	Assessment of homogeneity of the shear-strain pattern in Al-7wt%Si casting alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 597, 102-110.	2.6	12
21	Effect of Processing Temperature on the Texture and Shear Mechanical Properties of Diffusion Bonded Ti-6Al-4V Multilayer Laminates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 4743-4753.	1.1	10
22	Achieving microstructures prone to superplastic deformation in an Al-Zn-Mg-Cu alloy by equal channel angular pressing. <i>Journal of Alloys and Compounds</i> , 2013, 546, 253-259.	2.8	29
23	Lowering the temperature for high strain rate superplasticity in an Al-Mg-Zn-Cu alloy via cooled friction stir processing. <i>Materials Chemistry and Physics</i> , 2013, 142, 182-185.	2.0	41
24	Influence of interfacial defects on the impact toughness of solid state diffusion bonded Ti-6 Al-4 V alloy based multilayer composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 563, 28-35.	2.6	44
25	Influence of Processing Severity During Equal-Channel Angular Pressing on the Microstructure of an Al-Zn-Mg-Cu Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 4224-4236.	1.1	23
26	Study of hot deformation of an Al-Cu-Mg alloy using processing maps and microstructural characterization. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 552, 530-539.	2.6	48
27	Effect of warm accumulative roll bonding on the evolution of microstructure, texture and creep properties in the 7075 aluminium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 556, 287-294.	2.6	30
28	Determinación de los mecanismos de fractura de un material multicapa de aluminio de alta resistencia y excelente tenacidad a impacto basado en la aleación aeroespacial Al 7075. <i>Revista De Metalurgia</i> , 2012, 48, 290-302.	0.1	1
29	Influence of the thermal treatment on the deformation-induced precipitation of a hypoeutectic Al-7 wt% Si casting alloy deformed by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , 2011, 509, 636-643.	2.8	67
30	Mechanical properties at room temperature of an Al-Zn-Mg-Cu alloy processed by equal channel angular pressing. <i>Journal of Alloys and Compounds</i> , 2011, 509, 8649-8656.	2.8	71
31	High strain rate superplasticity at intermediate temperatures of the Al 7075 alloy severely processed by equal channel angular pressing. <i>Journal of Alloys and Compounds</i> , 2011, 509, 9589-9597.	2.8	48
32	Influence of the supersaturated silicon solid solution concentration on the effectiveness of severe plastic deformation processing in Al-7wt.% Si casting alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 7938-7947.	2.6	37
33	Microstructural characterization by electron backscatter diffraction of a hot worked Al-Cu-Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 3161-3168.	2.6	11
34	Effect of thermal treatment on the interfacial shear toughness of an aluminium composite laminate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 2579-2587.	2.6	9
35	Influence of Constituent Materials on the Impact Toughness and Fracture Mechanisms of Hot-Roll-Bonded Aluminum Multilayer Laminates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 61-72.	1.1	29
36	Influence of the Processing Temperature on the Microstructure, Texture, and Hardness of the 7075 Aluminum Alloy Fabricated by Accumulative Roll Bonding. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 758-767.	1.1	37

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37	Influencia del tratamiento térmico en las intercaras y propiedades mecánicas de un laminado multicapa de aluminio. Revista De Metalurgia, 2010, 46, 85-94.	0.1	0
38	Fracture toughness for interfacial delamination of Cr-Mo steel multilayer laminate. Materials Science and Technology, 2009, 25, 632-635.	0.8	14
39	Impact toughness improvement of high-strength aluminium alloy by intrinsic and extrinsic fracture mechanisms via hot roll bonding. Scripta Materialia, 2009, 61, 407-410.	2.6	41
40	Interface Effects on the Fracture Mechanism of a High-Toughness Aluminum-Composite Laminate. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 69-79.	1.1	37
41	Damage tolerance assessment by bend and shear tests of two multilayer composites: Glass fibre reinforced metal laminate and aluminium roll-bonded laminate. Composites Science and Technology, 2009, 69, 343-348.	3.8	38
42	Enhanced grain refinement due to deformation-induced precipitation during ambient-temperature severe plastic deformation of an Al-7%Si alloy. Journal of Alloys and Compounds, 2009, 478, 139-143.	2.8	31
43	Influence of the thermal treatment on the microstructure and hardness evolution of 7075 aluminium layers in a hot-rolled multilayer laminate composite. Journal of Alloys and Compounds, 2009, 478, 154-162.	2.8	11
44	Effect of Hot Rolling on Bonding Characteristics and Impact Behavior of a Laminated Composite Material Based on UHCS-1.35%Pt C. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 666-671.	1.1	29
45	Influence of the thermomechanical processing on the fracture mechanisms of high strength aluminium/pure aluminium multilayer laminate materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 490, 319-327.	2.6	46
46	Influence of the alumina thickness at the interfaces on the fracture mechanisms of aluminium multilayer composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 496, 133-142.	2.6	41
47	Effect of the deformation path on the ductility of a hypoeutectic Al-Si casting alloy subjected to equal-channel angular pressing by routes A, BA, BC and C. Scripta Materialia, 2008, 58, 138-141.	2.6	61
48	Corona discharge treatment of EVAs with different vinyl acetate contents. Journal of Adhesion Science and Technology, 2007, 21, 441-463.	1.4	11
49	Influence of the Particle Size of CaCO ₃ on the Adhesion of Filled EVA Materials. Macromolecular Symposia, 2005, 221, 23-32.	0.4	1
50	Surface treatment of vulcanized latex soles to improve their adhesion performance in shoe manufacturing. Journal of Adhesion Science and Technology, 2005, 19, 19-40.	1.4	1
51	Surface modifications of EVA copolymers by using RF oxidizing and non-oxidizing plasmas. Surface and Coatings Technology, 2003, 174-175, 94-99.	2.2	16
52	Chemical modification of styrene-butadiene-styrene (SBS) rubber by reactive grafting with maleic anhydride. Journal of Adhesion Science and Technology, 2003, 17, 1713-1726.	1.4	10
53	Treatment of thermoplastic rubber with chlorine bleach as an alternative halogenation treatment in the footwear industry. Journal of Adhesion, 2003, 79, 207-237.	1.8	17
54	Treatment of EVA with corona discharge to improve its adhesion to polychloroprene adhesive. Journal of Adhesion Science and Technology, 2003, 17, 47-65.	1.4	29

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55	Surface modifications of EVA copolymers induced by low pressure RF plasmas from different gases and their relation to adhesion properties. <i>Journal of Adhesion Science and Technology</i> , 2003, 17, 1145-1159.	1.4	11
56	A new water-based chemical treatment based on sodium dichloroisocyanurate (DCI) for rubber soles in the footwear industry. <i>Journal of Adhesion Science and Technology</i> , 2002, 16, 257-283.	1.4	12
57	Influence of the styrene content of thermoplastic styrene-butadiene rubbers in the effectiveness of the treatment with sulfuric acid. <i>International Journal of Adhesion and Adhesives</i> , 2001, 21, 161-172.	1.4	42
58	Influence of the vinyl acetate content and the tackifier nature on the rheological, thermal, and adhesion properties of EVA adhesives. <i>Journal of Adhesion Science and Technology</i> , 2001, 15, 243-263.	1.4	11
59	Weak boundary layers on vulcanized styrene-butadiene rubber treated with sulfuric acid. <i>Journal of Adhesion Science and Technology</i> , 2001, 15, 1323-1350.	1.4	9
60	Surface Characterization of Vulcanized Rubber Treated with Sulfuric Acid and its Adhesion to Polyurethane Adhesive. <i>Journal of Adhesion</i> , 2000, 73, 135-160.	1.8	45
61	Accumulative Roll Bonding of 7075 Aluminium Alloy at High Temperature. <i>Materials Science Forum</i> , 0, 638-642, 1929-1933.	0.3	2
62	Simulation of Hot Rolling Processing of an Al-Cu-Mg Alloy by Torsion Tests. <i>Materials Science Forum</i> , 0, 706-709, 277-282.	0.3	2