Ricardo Fernandez

List of Publications by Year
in descending order

82	1,620	331670	330143
papers	citations	21 h-index	37 g-index

85	85	85	2016
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identification of the failure mode of corroding steel rebars in a viaduct in service through hardness measurements. Results in Engineering, 2022, 13, 100331.	5.1	2
2	Characteristics of PM2.5 Pollution in Osorno, Chile: Ion Chromatography and Meteorological Data Analyses. Atmosphere, 2022, 13, 168.	2.3	2
3	Dislocation substructures in pure aluminium after creep deformation as studied by electron backscatter diffraction. Journal of Applied Crystallography, 2022, 55, 860-869.	4.5	6
4	Microstructure and Mechanical Properties of Friction Stir Welded AA6061/AA6061 + 40 vol% SiC Plates. Metals, 2021, 11, 206.	2.3	5
5	Approach to plastic deformation and strain rate in FSW process. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 1519-1530.	2.5	8
6	Adenosine triphosphate, polymyxin B and B16 cell-derived immunization induce anticancer response. Immunotherapy, 2021, 13, 309-326.	2.0	2
7	Further insights on the stress equilibrium method to investigate macroscopic residual stress fields: Case of aluminum alloys cylinders. Journal of Alloys and Compounds, 2021, 861, 158506.	5.5	4
8	Residual Stress Distribution after Quenching Treatment Obtained from Diffraction Experiments and Simulation by Finite Element Method. Journal of Surface Investigation, 2021, 15, 537-541.	0.5	0
9	Study of Microscopic Residual Stresses in an Extruded Aluminium Alloy Sample after Thermal Treatment. Journal of Surface Investigation, 2021, 15, 763-767.	0.5	2
10	Estimation of Grain-Level Residual Stresses in a Quenched Cylindrical Sample of Aluminum Alloy AA5083 Using Genetic Programming. Lecture Notes in Computer Science, 2021, , 421-436.	1.3	0
11	Fractional brownian motion of dislocations during creep deformation of metals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 796, 140013.	5.6	5
12	Chitosan-Based Nanoparticles for Intracellular Delivery of ISAV Fusion Protein cDNA into Melanoma Cells: A Path to Develop Oncolytic Anticancer Therapies. Mediators of Inflammation, 2020, 2020, 1-13.	3.0	13
13	Chitosan-Based Delivery of Avian Reovirus Fusogenic Protein p10 Gene: In Vitro and In Vivo Studies towards a New Vaccine against Melanoma. BioMed Research International, 2020, 2020, 1-11.	1.9	6
14	Analysis of the Combined Strengthening Effect of Solute Atoms and Precipitates on Creep of Aluminum Alloys. Advanced Engineering Materials, 2020, 22, 1901355.	3.5	8
15	Towards a comprehensive understanding of creep: Microstructural dependence of the pre-exponential term in Al. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 776, 139036.	5.6	4
16	Determination of microscopic residual stresses using evolutionary algorithms. , 2019, , .		0
17	Lithraea caustic (Litre) Extract Promotes an Antitumor Response Against B16 Melanoma. Frontiers in Pharmacology, 2019, 10, 1201.	3.5	4
18	Determination of microscopic residual stresses using diffraction methods, EBSD maps, and evolutionary algorithms. , 2019, , .		0

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19	Synthesis of Cu/rGO composites by chemical and thermal reduction ofÂgraphene oxide. Journal of Alloys and Compounds, 2019, 800, 379-391.	5.5	34
20	Fractal nature of aluminum alloys substructures under creep and its implications. Journal of Applied Physics, 2018, 123, 145108.	2.5	11
21	Evidence of damage evolution during creep of Alâ€“Mg alloy using synchrotron X-ray refraction. Journal of Applied Crystallography, 2018, 51, 420-427.	4.5	16
22	A multi-scale analysis of the residual stresses developed in a single-phase alloy cylinder after quenching. Materials and Design, 2018, 137, 117-127.	7.0	21
23	The role of intermetallics in stress partitioning and damage evolution of AlSi12CuMgNi alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 736, 453-464.	5.6	16
24	Residual stress and yield strength evolution with annealing treatments in an age-hardenable aluminum alloy matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 731, 344-350.	5.6	25
25	Friction stir welding of 25%SiC/2124Al composite with optimal mechanical properties and minimal tool wear. Science and Technology of Welding and Joining, 2017, 22, 526-535.	3.1	8
26	Dead Tumor Cells Expressing Infectious Salmon Anemia Virus Fusogenic Protein Favor Antigen Cross-Priming In Vitro. Frontiers in Immunology, 2017, 8, 1170.	4.8	6
27	Ion Channels in Inflammatory Processes: What Is Known and What Is Next?. Mediators of Inflammation, 2016, 2016, 1-1.	3.0	7
28	Primary and secondary creep in aluminum alloys as a solid state transformation. Journal of Applied Physics, 2016, 120, .	2.5	13
29	Using evolutionary algorithms to determine the residual stress profile across welds of age-hardenable aluminum alloys. Applied Soft Computing Journal, 2016, 40, 429-438.	7.2	9
30	Alloreactive regulatory TÂcells generated with retinoic acid prevent skin allograft rejection. European Journal of Immunology, 2015, 45, 452-463.	2.9	41
31	Sepsis progression to multiple organ dysfunction in carotid chemo/baro-denervated rats treated with lipopolysaccharide. Journal of Neuroimmunology, 2015, 278, 44-52.	2.3	31
32	The effect of lateral off-set on the tensile strength and fracture of dissimilar friction stir welds, 2024Al alloy and 17%SiC/2124Al composite. Materials & Design, 2015, 65, 438-446.	5.1	18
33	Lipopolysaccharide-Induced Ionized Hypocalcemia and Acute Kidney Injury in Carotid Chemo/Baro-Denervated Rats. Advances in Experimental Medicine and Biology, 2015, 860, 161-166.	1.6	4
34	Neural reflex regulation of systemic inflammation: potential new targets for sepsis therapy. Frontiers in Physiology, 2014, 5, 489.	2.8	50
35	Endotoxin-induced vascular endothelial cell migration is dependent on TLR4/NF-Î¹B pathway, NAD(P)H oxidase activation, and transient receptor potential melastatin 7 calcium channel activity. International Journal of Biochemistry and Cell Biology, 2014, 55, 11-23.	2.8	36
36	Oxidative stress mediates the conversion of endothelial cells into myofibroblasts via a TGF-Î²1 and TGF-Î²2-dependent pathway. Laboratory Investigation, 2014, 94, 1068-1082.	3.7	112

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37	Neuroendocrine mechanisms for immune system regulation during stress in fish. Fish and Shellfish Immunology, 2014, 40, 531-538.	3.6	123
38	Analysis of the unstressed lattice spacing, d0, for the determination of the residual stress in a friction stir welded plate of an age-hardenable aluminum alloy â€“ Use of equilibrium conditions and a genetic algorithm. Acta Materialia, 2014, 74, 189-199.	7.9	21
39	Opening of pannexin- and connexin-based channels increases the excitability of nodose ganglion sensory neurons. Frontiers in Cellular Neuroscience, 2014, 8, 158.	3.7	38
40	Friction stir welding of thick plates of aluminum alloy matrix composite with a high volume fraction of ceramic reinforcement. Composites Part A: Applied Science and Manufacturing, 2013, 54, 117-123.	7.6	65
41	Polymyxin B increases the depletion of T regulatory cell induced by purinergic agonist. Immunobiology, 2012, 217, 307-315.	1.9	10
42	Kinetics of tri-axial and spatial residual stress relaxation: Study by synchrotron radiation diffraction in a 2014Al alloy. Journal of Alloys and Compounds, 2012, 523, 94-101.	5.5	11
43	LPS-Induced c-Fos Activation in NTS Neurons and Plasmatic Cortisol Increases in Septic Rats Are Suppressed by Bilateral Carotid Chemodenervation. Advances in Experimental Medicine and Biology, 2012, 758, 185-190.	1.6	20
44	A unified description of solid solution creep strengthening in Alâ€“Mg alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 550, 320-324.	5.6	13
45	Shifting from Hypoxia to Hyperoxia to Assess the Peripheral Chemosensory Drive of Ventilation. Advances in Experimental Medicine and Biology, 2012, 758, 137-142.	1.6	3
46	Colored semi-transparent Cu-Si oxide thin films prepared by magnetron sputtering. Optical Materials Express, 2011, 1, 1100.	3.0	13
47	Understanding the creep fracture behavior of aluminum alloys and aluminum alloy metal matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 8218-8225.	5.6	13
48	Lipopolysaccharide signaling in the carotid chemoreceptor pathway of rats with sepsis syndrome. Respiratory Physiology and Neurobiology, 2011, 175, 336-348.	1.6	38
49	Immunosensory signalling by carotid body chemoreceptors. Respiratory Physiology and Neurobiology, 2011, 178, 370-374.	1.6	39
50	Lipopolysaccharide Inhibits the Channel Activity of the P2X7 Receptor. Mediators of Inflammation, 2011, 2011, 1-12.	3.0	7
51	Comments on â€œCreep behavior of in situ TiCP/2618 aluminum matrix compositeâ€• Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3288-3292.	5.6	4
52	Oxidative Damage in Lymphocytes of Copper Smelter Workers Correlated to Higher Levels of Excreted Arsenic. Mediators of Inflammation, 2010, 2010, 1-8.	3.0	21
53	NO production and eNOS phosphorylation induced by epinephrine through the activation of Î²-adrenoceptors. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H134-H143.	3.2	56
54	Load partitioning during creep of powder metallurgy metal matrix composites and Shear-Lag model predictions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 500, 109-113.	5.6	5

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55	Texture evolution with superplastic deformation of a AlCu4Mg/Si3N4/20p composite. Composites Science and Technology, 2009, 69, 373-377.	7.8	4
56	Additivity of reinforcing mechanisms during creep of metal matrix composites: Role of the microstructure and the processing route. Journal of Alloys and Compounds, 2009, 475, 202-206.	5.5	7
57	Influence of processing route and reinforcement content on the creep fracture parameters of aluminium alloy metal matrix composites. Journal of Alloys and Compounds, 2009, 478, 133-138.	5.5	5
58	Early lipopolysaccharide-induced reactive oxygen species production evokes necrotic cell death in human umbilical vein endothelial cells. Journal of Hypertension, 2009, 27, 1202-1216.	0.5	94
59	Threshold stress and load partitioning during creep of metal matrix composites. Acta Materialia, 2008, 56, 2549-2562.	7.9	74
60	Lipopolysaccharideâ€induced carotid body inflammation in cats: functional manifestations, histopathology and involvement of tumour necrosis factorâ€±. Experimental Physiology, 2008, 93, 892-907.	2.0	63
61	Creep fracture and load transfer in metalâ€“matrix composite. Scripta Materialia, 2008, 59, 1135-1138.	5.2	9
62	The release of sympathetic neurotransmitters is impaired in aged rats after an inflammatory stimulus: A possible link between cytokine production and sympathetic transmission. Mechanisms of Ageing and Development, 2008, 129, 728-734.	4.6	13
63	Carotid body chemosensory activity and ventilatory chemoreflexes in cats persist after combined cholinergicâ€“purinergic block. Respiratory Physiology and Neurobiology, 2007, 156, 23-32.	1.6	24
64	Effects of combined cholinergicâ€“purinergic block upon cat carotid body chemoreceptors in vitro. Respiratory Physiology and Neurobiology, 2007, 156, 17-22.	1.6	27
65	Creep behavior of ingot and powder metallurgy 6061Al. Journal of Alloys and Compounds, 2007, 440, 158-167.	5.5	22
66	The dependence of the Eshelby model predictions on the microstructure of metal matrix composites. Acta Materialia, 2007, 55, 1267-1274.	7.9	7
67	Gauge volume effects in residual stress determination by neutron diffraction: The strength differential effect in metal matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 437, 100-108.	5.6	8
68	Residual stress evolution with compressive plastic deformation in 6061Alâ€“15vol.% SiCw composites as studied by neutron diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 403, 260-268.	5.6	11
69	Correlation between matrix residual stress and composite yield strength in PM 6061Al?15vol% SiC. Scripta Materialia, 2005, 52, 793-797.	5.2	13
70	The Connection between Micro-Residual Stress and Thermo-Mechanical Treatments in 6061Al-15vol%SiC_w Composites. Materials Science Forum, 2005, 490-491, 539-544.	0.3	1
71	Comportamiento en fluencia de un material compuesto de matriz metÃ¡lica Al6061-15 vol % SiC_w pulvimetalÃºrgico. Revista De Metalurgia, 2005, 41, 239-243.	0.5	1
72	Effect of Heat Treatments on the Residual Stress State of 6061Al-15 vol%SiC w Composite. Journal of Neutron Research, 2004, 12, 105-109.	1.1	0

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73	Relaxation of the residual stress in 6061Al-15 vol.% SiCw composites by isothermal annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 382, 188-197.	5.6	20
74	Correlation between residual stresses and the strength differential effect in PM 6061Alâ€“15 vol% SiCw composites: experiments, models and predictions. Acta Materialia, 2004, 52, 5471-5483.	7.9	33
75	Effect of Plastic Deformation on the Microscopic Residual Stresses in 6061Al-15vol%SiC_w Composites. Materials Science Forum, 2003, 426-432, 2193-2198.	0.3	3
76	Acute ventilatory and circulatory reactions evoked by nicotine: are they excitatory or depressant?. Respiratory Physiology and Neurobiology, 2002, 133, 173-182.	1.6	21
77	Determination of residual stress by neutron diffraction in 6061Al-15 vol. % ï¿½ SiC w composites with different whisker orientation/distribution. Applied Physics A: Materials Science and Processing, 2002, 74, s1146-s1148.	2.3	5
78	Influence of extrusion temperature on the microstructure and the texture of 6061Alâ€“15 vol.% SiCw PM composites. Composites Science and Technology, 2002, 62, 731-742.	7.8	72
79	Increased adhesiveness and internalization of Neisseria gonorrhoeae and changes in the expression of epithelial gonococcal receptors in the Fallopian tube of copper T and Norplant(R) users. Human Reproduction, 2001, 16, 463-468.	0.9	17
80	PAF receptor and PAF acetylhydrolase expression in the endosalpinx of the human Fallopian tube: possible role of embryo-derived PAF in the control of embryo transport to the uterus. Human Reproduction, 2001, 16, 1583-1587.	0.9	32
81	Estudio mediante tres tÃ©cnicas del mÃ³dulo elÃ¡stico de un material compuesto de Al(6061) con un alto contenido (40%vol) de SiC. Revista De Metalurgia, 2001, 37, 376-380.	0.5	0
82	Fractal Analysis of Strain-Induced Microstructures in Metals. , 0, , .		5