

Ricardo Fernandez

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

1,620
citations

331670

21
h-index

330143

37
g-index

85
all docs

85
docs citations

85
times ranked

2016
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuroendocrine mechanisms for immune system regulation during stress in fish. <i>Fish and Shellfish Immunology</i> , 2014, 40, 531-538.	3.6	123
2	Oxidative stress mediates the conversion of endothelial cells into myofibroblasts via a TGF- β 1 and TGF- β 2-dependent pathway. <i>Laboratory Investigation</i> , 2014, 94, 1068-1082.	3.7	112
3	Early lipopolysaccharide-induced reactive oxygen species production evokes necrotic cell death in human umbilical vein endothelial cells. <i>Journal of Hypertension</i> , 2009, 27, 1202-1216.	0.5	94
4	Threshold stress and load partitioning during creep of metal matrix composites. <i>Acta Materialia</i> , 2008, 56, 2549-2562.	7.9	74
5	Influence of extrusion temperature on the microstructure and the texture of 6061Al-15 vol.% SiCw PM composites. <i>Composites Science and Technology</i> , 2002, 62, 731-742.	7.8	72
6	Friction stir welding of thick plates of aluminum alloy matrix composite with a high volume fraction of ceramic reinforcement. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 54, 117-123.	7.6	65
7	Lipopolysaccharide-induced carotid body inflammation in cats: functional manifestations, histopathology and involvement of tumour necrosis factor- α . <i>Experimental Physiology</i> , 2008, 93, 892-907.	2.0	63
8	NO production and eNOS phosphorylation induced by epinephrine through the activation of β -adrenoceptors. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H134-H143.	3.2	56
9	Neural reflex regulation of systemic inflammation: potential new targets for sepsis therapy. <i>Frontiers in Physiology</i> , 2014, 5, 489.	2.8	50
10	Alloreactive regulatory T cells generated with retinoic acid prevent skin allograft rejection. <i>European Journal of Immunology</i> , 2015, 45, 452-463.	2.9	41
11	Immunosensory signalling by carotid body chemoreceptors. <i>Respiratory Physiology and Neurobiology</i> , 2011, 178, 370-374.	1.6	39
12	Lipopolysaccharide signaling in the carotid chemoreceptor pathway of rats with sepsis syndrome. <i>Respiratory Physiology and Neurobiology</i> , 2011, 175, 336-348.	1.6	38
13	Opening of pannexin- and connexin-based channels increases the excitability of nodose ganglion sensory neurons. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 158.	3.7	38
14	Endotoxin-induced vascular endothelial cell migration is dependent on TLR4/NF- κ B pathway, NAD(P)H oxidase activation, and transient receptor potential melastatin 7 calcium channel activity. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 55, 11-23.	2.8	36
15	Synthesis of Cu/rGO composites by chemical and thermal reduction of graphene oxide. <i>Journal of Alloys and Compounds</i> , 2019, 800, 379-391.	5.5	34
16	Correlation between residual stresses and the strength differential effect in PM 6061Al-15 vol% SiCw composites: experiments, models and predictions. <i>Acta Materialia</i> , 2004, 52, 5471-5483.	7.9	33
17	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. <i>Human Reproduction</i> , 2001, 16, 1583-1587.	0.9	32
18	Sepsis progression to multiple organ dysfunction in carotid chemo/baro-denervated rats treated with lipopolysaccharide. <i>Journal of Neuroimmunology</i> , 2015, 278, 44-52.	2.3	31

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19	Effects of combined cholinergic and purinergic block upon cat carotid body chemoreceptors in vitro. <i>Respiratory Physiology and Neurobiology</i> , 2007, 156, 17-22.	1.6	27
20	Residual stress and yield strength evolution with annealing treatments in an age-hardenable aluminum alloy matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 731, 344-350.	5.6	25
21	Carotid body chemosensory activity and ventilatory chemoreflexes in cats persist after combined cholinergic and purinergic block. <i>Respiratory Physiology and Neurobiology</i> , 2007, 156, 23-32.	1.6	24
22	Creep behavior of ingot and powder metallurgy 6061Al. <i>Journal of Alloys and Compounds</i> , 2007, 440, 158-167.	5.5	22
23	Acute ventilatory and circulatory reactions evoked by nicotine: are they excitatory or depressant?. <i>Respiratory Physiology and Neurobiology</i> , 2002, 133, 173-182.	1.6	21
24	Oxidative Damage in Lymphocytes of Copper Smelter Workers Correlated to Higher Levels of Excreted Arsenic. <i>Mediators of Inflammation</i> , 2010, 2010, 1-8.	3.0	21
25	Analysis of the unstressed lattice spacing, d_0 , for the determination of the residual stress in a friction stir welded plate of an age-hardenable aluminum alloy – Use of equilibrium conditions and a genetic algorithm. <i>Acta Materialia</i> , 2014, 74, 189-199.	7.9	21
26	A multi-scale analysis of the residual stresses developed in a single-phase alloy cylinder after quenching. <i>Materials and Design</i> , 2018, 137, 117-127.	7.0	21
27	Relaxation of the residual stress in 6061Al-15 vol.% SiCw composites by isothermal annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 382, 188-197.	5.6	20
28	LPS-Induced c-Fos Activation in NTS Neurons and Plasmatic Cortisol Increases in Septic Rats Are Suppressed by Bilateral Carotid Chemodeneration. <i>Advances in Experimental Medicine and Biology</i> , 2012, 758, 185-190.	1.6	20
29	The effect of lateral off-set on the tensile strength and fracture of dissimilar friction stir welds, 2024Al alloy and 17%SiC/2124Al composite. <i>Materials & Design</i> , 2015, 65, 438-446.	5.1	18
30	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. <i>Human Reproduction</i> , 2001, 16, 463-468.	0.9	17
31	Evidence of damage evolution during creep of Al-Mg alloy using synchrotron X-ray refraction. <i>Journal of Applied Crystallography</i> , 2018, 51, 420-427.	4.5	16
32	The role of intermetallics in stress partitioning and damage evolution of AlSi12CuMgNi alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 736, 453-464.	5.6	16
33	Correlation between matrix residual stress and composite yield strength in PM 6061Al/15vol% SiC. <i>Scripta Materialia</i> , 2005, 52, 793-797.	5.2	13
34	The release of sympathetic neurotransmitters is impaired in aged rats after an inflammatory stimulus: A possible link between cytokine production and sympathetic transmission. <i>Mechanisms of Ageing and Development</i> , 2008, 129, 728-734.	4.6	13
35	Colored semi-transparent Cu-Si oxide thin films prepared by magnetron sputtering. <i>Optical Materials Express</i> , 2011, 1, 1100.	3.0	13
36	Understanding the creep fracture behavior of aluminum alloys and aluminum alloy metal matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 8218-8225.	5.6	13

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37	A unified description of solid solution creep strengthening in Al–Mg alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 550, 320-324.	5.6	13
38	Primary and secondary creep in aluminum alloys as a solid state transformation. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	13
39	Chitosan-Based Nanoparticles for Intracellular Delivery of ISAV Fusion Protein cDNA into Melanoma Cells: A Path to Develop Oncolytic Anticancer Therapies. <i>Mediators of Inflammation</i> , 2020, 2020, 1-13.	3.0	13
40	Residual stress evolution with compressive plastic deformation in 6061Al–15vol.% SiCw composites as studied by neutron diffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 403, 260-268.	5.6	11
41	Kinetics of tri-axial and spatial residual stress relaxation: Study by synchrotron radiation diffraction in a 2014Al alloy. <i>Journal of Alloys and Compounds</i> , 2012, 523, 94-101.	5.5	11
42	Fractal nature of aluminum alloys substructures under creep and its implications. <i>Journal of Applied Physics</i> , 2018, 123, 145108.	2.5	11
43	Polymyxin B increases the depletion of T regulatory cell induced by purinergic agonist. <i>Immunobiology</i> , 2012, 217, 307-315.	1.9	10
44	Creep fracture and load transfer in metal–matrix composite. <i>Scripta Materialia</i> , 2008, 59, 1135-1138.	5.2	9
45	Using evolutionary algorithms to determine the residual stress profile across welds of age-hardenable aluminum alloys. <i>Applied Soft Computing Journal</i> , 2016, 40, 429-438.	7.2	9
46	Gauge volume effects in residual stress determination by neutron diffraction: The strength differential effect in metal matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 437, 100-108.	5.6	8
47	Friction stir welding of 25%SiC/2124Al composite with optimal mechanical properties and minimal tool wear. <i>Science and Technology of Welding and Joining</i> , 2017, 22, 526-535.	3.1	8
48	Analysis of the Combined Strengthening Effect of Solute Atoms and Precipitates on Creep of Aluminum Alloys. <i>Advanced Engineering Materials</i> , 2020, 22, 1901355.	3.5	8
49	Approach to plastic deformation and strain rate in FSW process. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 1519-1530.	2.5	8
50	The dependence of the Eshelby model predictions on the microstructure of metal matrix composites. <i>Acta Materialia</i> , 2007, 55, 1267-1274.	7.9	7
51	Additivity of reinforcing mechanisms during creep of metal matrix composites: Role of the microstructure and the processing route. <i>Journal of Alloys and Compounds</i> , 2009, 475, 202-206.	5.5	7
52	Lipopolysaccharide Inhibits the Channel Activity of the P2X7 Receptor. <i>Mediators of Inflammation</i> , 2011, 2011, 1-12.	3.0	7
53	Ion Channels in Inflammatory Processes: What Is Known and What Is Next?. <i>Mediators of Inflammation</i> , 2016, 2016, 1-1.	3.0	7
54	Dead Tumor Cells Expressing Infectious Salmon Anemia Virus Fusogenic Protein Favor Antigen Cross-Priming In Vitro. <i>Frontiers in Immunology</i> , 2017, 8, 1170.	4.8	6

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55	Chitosan-Based Delivery of Avian Reovirus Fusogenic Protein p10 Gene: <i>In Vitro</i> and <i>In Vivo</i> Studies towards a New Vaccine against Melanoma. <i>BioMed Research International</i> , 2020, 2020, 1-11.	1.9	6
56	Dislocation substructures in pure aluminium after creep deformation as studied by electron backscatter diffraction. <i>Journal of Applied Crystallography</i> , 2022, 55, 860-869.	4.5	6
57	Determination of residual stress by neutron diffraction in 6061Al-15 vol. % SiC w composites with different whisker orientation/distribution. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1146-s1148.	2.3	5
58	Load partitioning during creep of powder metallurgy metal matrix composites and Shear-Lag model predictions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 500, 109-113.	5.6	5
59	Influence of processing route and reinforcement content on the creep fracture parameters of aluminium alloy metal matrix composites. <i>Journal of Alloys and Compounds</i> , 2009, 478, 133-138.	5.5	5
60	Fractional brownian motion of dislocations during creep deformation of metals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 796, 140013.	5.6	5
61	Fractal Analysis of Strain-Induced Microstructures in Metals. , 0, , .		5
62	Microstructure and Mechanical Properties of Friction Stir Welded AA6061/AA6061 + 40 vol% SiC Plates. <i>Metals</i> , 2021, 11, 206.	2.3	5
63	Texture evolution with superplastic deformation of a AlCu4Mg/Si3N4/20p composite. <i>Composites Science and Technology</i> , 2009, 69, 373-377.	7.8	4
64	Comments on "Creep behavior of in situ TiCP/2618 aluminum matrix composite". <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 3288-3292.	5.6	4
65	Lithraea caustic (Litre) Extract Promotes an Antitumor Response Against B16 Melanoma. <i>Frontiers in Pharmacology</i> , 2019, 10, 1201.	3.5	4
66	Towards a comprehensive understanding of creep: Microstructural dependence of the pre-exponential term in Al. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 776, 139036.	5.6	4
67	Further insights on the stress equilibrium method to investigate macroscopic residual stress fields: Case of aluminum alloys cylinders. <i>Journal of Alloys and Compounds</i> , 2021, 861, 158506.	5.5	4
68	Lipopolysaccharide-Induced Ionized Hypocalcemia and Acute Kidney Injury in Carotid Chemo/Baro-Denervated Rats. <i>Advances in Experimental Medicine and Biology</i> , 2015, 860, 161-166.	1.6	4
69	Effect of Plastic Deformation on the Microscopic Residual Stresses in 6061Al-15vol%SiC_w_t. <i>Composites. Materials Science Forum</i> , 2003, 426-432, 2193-2198.	0.3	3
70	Shifting from Hypoxia to Hyperoxia to Assess the Peripheral Chemosensory Drive of Ventilation. <i>Advances in Experimental Medicine and Biology</i> , 2012, 758, 137-142.	1.6	3
71	Adenosine triphosphate, polymyxin B and B16 cell-derived immunization induce anticancer response. <i>Immunotherapy</i> , 2021, 13, 309-326.	2.0	2
72	Study of Microscopic Residual Stresses in an Extruded Aluminium Alloy Sample after Thermal Treatment. <i>Journal of Surface Investigation</i> , 2021, 15, 763-767.	0.5	2

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73	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
74	Characteristics of PM2.5 Pollution in Osorno, Chile: Ion Chromatography and Meteorological Data Analyses. Atmosphere, 2022, 13, 168.	2.3	2
75	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
76	Comportamiento en fluencia de un material compuesto de matriz metálica Al6061-15 vol % SiC_w; pulvimetalúrgico. Revista De Metalurgia, 2005, 41, 239-243.	0.5	1
77	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
78	Determination of microscopic residual stresses using evolutionary algorithms. , 2019, , .		0
79	Determination of microscopic residual stresses using diffraction methods, EBSD maps, and evolutionary algorithms. , 2019, , .		0
80	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
81	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
82	Estudio mediante tres técnicas del módulo elástico 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