Alfredo Franco-ObregÃ³n

List of Publications by Year
in descending order

49 papers	3,009 citations	201658 27 h-index	197805 49 g-index
54 all docs	54 docs citations	54 times ranked	3608 citing authors

#	Article	IF	Citations
1	Magnetic Helical Micromachines: Fabrication, Controlled Swimming, and Cargo Transport. Advanced Materials, 2012, 24, 811-816.	21.0	983
2	Calcium entry through stretch-inactivated ion channels in mdx myotubes. Nature, 1990, 344, 670-673.	27.8	382
3	Oxygen-sensitive calcium channels in vascular smooth muscle and their possible role in hypoxic arterial relaxation.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 4715-4719.	7.1	119
4	Regenerative Therapies for Equine Degenerative Joint Disease: A Preliminary Study. PLoS ONE, 2014, 9, e85917.	2.5	94
5	Properties of embryonic and adult muscle acetylcholine receptors transiently expressed in COS cells. Neuron, 1990, 5, 147-157.	8.1	93
6	Low Intensity and Frequency Pulsed Electromagnetic Fields Selectively Impair Breast Cancer Cell Viability. PLoS ONE, 2013, 8, e72944.	2.5	93
7	Enhancement of mesenchymal stem cell chondrogenesis with short-term low intensity pulsed electromagnetic fields. Scientific Reports, 2017, 7, 9421.	3.3	70
8	Noncytotoxic artificial bacterial flagella fabricated from biocompatible ORMOCOMP and iron coating. Journal of Materials Chemistry B, 2014, 2, 357-362.	5.8	64
9	Changes in mechanosensitive channel gating following mechanical stimulation in skeletal muscle myotubes from themdxmouse. Journal of Physiology, 2002, 539, 391-407.	2.9	62
10	A new mechanobiological era: microfluidic pathways to apply and sense forces at the cellular level. Current Opinion in Chemical Biology, 2012, 16, 400-408.	6.1	62
11	Open channel block by gadolinium ion of the stretch-inactivated ion channel in mdx myotubes. Biophysical Journal, 1991, 59, 1164-1170.	0.5	56
12	Pulsed electromagnetic fields potentiate the paracrine function of mesenchymal stem cells for cartilage regeneration. Stem Cell Research and Therapy, 2020, 11, 46.	5.5	54
13	Graphene-Induced Osteogenic Differentiation Is Mediated by the Integrin/FAK Axis. International Journal of Molecular Sciences, 2019, 20, 574.	4.1	52
14	The Microbiome-Mitochondrion Connection: Common Ancestries, Common Mechanisms, Common Goals. MSystems, 2017, 2, .	3.8	51
15	Detailed analysis of forces influencing lateral resolution for Q-control and tapping mode. Applied Physics Letters, 2001, 79, 135-137.	3.3	50
16	Modulation of Nuclear Pore Topology by Transport Modifiers. Biophysical Journal, 2003, 84, 665-670.	0.5	43
17	MECHANOSENSITIVE ION CHANNELS IN SKELETAL MUSCLE: A LINK IN THE MEMBRANE PATHOLOGY OF MUSCULAR DYSTROPHY. Clinical and Experimental Pharmacology and Physiology, 2006, 33, 649-656.	1.9	42
18	Reduction of Ca2+ channel activity by hypoxia in human and porcine coronary myocytes. Cardiovascular Research, 2002, 53, 97-104.	3.8	41

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19	Enhanced robustness digital holographic microscopy for demanding environment of space biology. Biomedical Optics Express, 2012, 3, 313.	2.9	37
20	Ambient and supplemental magnetic fields promote myogenesis via a TRPC1â€mitochondrial axis: evidence of a magnetic mitohormetic mechanism. FASEB Journal, 2019, 33, 12853-12872.	0.5	37
21	Distinct Ion Channel Classes Are Expressed on the Outer Nuclear Envelope of T- and B-Lymphocyte Cell Lines. Biophysical Journal, 2000, 79, 202-214.	0.5	36
22	Calciumâ€dependent deceleration of the cell cycle in muscle cells by simulated microgravity. FASEB Journal, 2013, 27, 2045-2054.	0.5	34
23	TRP channels in brown and white adipogenesis from human progenitors: new therapeutic targets and the caveats associated with the common antibiotic, streptomycin. FASEB Journal, 2017, 31, 3251-3266.	0.5	32
24	Timeâ€lapse imaging of In Vitro myogenesis using atomic force microscopy. Journal of Microscopy, 2010, 237, 63-69.	1.8	31
25	Digital holographic microscopy real-time monitoring of cytoarchitectural alterations during simulated microgravity. Journal of Biomedical Optics, 2010, 15, 026021.	2.6	28
26	Gravitational force modulates G₂/M phase exit in mechanically unloaded myoblasts. Cell Cycle, 2013, 12, 3001-3012.	2.6	28
27	Transient receptor potential vanilloid 2â€mediated shearâ€stress responses in C2C12 myoblasts are regulated by serum and extracellular matrix. FASEB Journal, 2015, 29, 4726-4737.	0.5	28
28	Oxygen sensing by ion channels. Kidney International, 1997, 51, 454-461.	5.2	27
29	Impedance flow cytometry gauges proliferative capacity by detecting TRPC1 expression. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2014, 85, 525-536.	1.5	23
30	Equine Epidermis: A Source of Epithelial-Like Stem/Progenitor Cells with In Vitro and In Vivo Regenerative Capacities. Stem Cells and Development, 2014, 23, 1134-1148.	2.1	22
31	Directionalities of magnetic fields and topographic scaffolds synergise to enhance MSC chondrogenesis. Acta Biomaterialia, 2021, 119, 169-183.	8.3	21
32	Magnetic fields modulate metabolism and gut microbiome in correlation with Pgcâ€1Î± expression: Followâ€up to an in vitro magnetic mitohormetic study. FASEB Journal, 2020, 34, 11143-11167.	0.5	20
33	Microfluidic platform for electrophysiological studies on Xenopus laevis oocytes under varying gravity levels. Lab on A Chip, 2011, 11, 3471.	6.0	19
34	Bio-inspired microrobots. Materials Today, 2012, 15, 463.	14.2	19
35	Efficient electroporation of peptides into adherent cells: investigation of the role of mechano-growth factor in chondrocyte culture. Biotechnology Letters, 2011, 33, 883-888.	2.2	18
36	Chondrogenic Priming at Reduced Cell Density Enhances Cartilage Adhesion of Equine Allogeneic MSCs - a Loading Sensitive Phenomenon in an Organ Culture Study with 180 Explants. Cellular Physiology and Biochemistry, 2015, 37, 651-665.	1.6	17

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37	Brief exposure to directionally-specific pulsed electromagnetic fields stimulates extracellular vesicle release and is antagonized by streptomycin: A potential regenerative medicine and food industry paradigm. Biomaterials, 2022, 287, 121658.	11.4	14
38	Spontaneous opening of the acetylcholine receptor channel in developing muscle cells from normal and dystrophic mice. Journal of Neuroscience Research, 1995, 42, 452-458.	2.9	13
39	TRPC6 in simulated microgravity of intervertebral disc cells. European Spine Journal, 2018, 27, 2621-2630.	2.2	12
40	Quantitative Topographical Analysis of Nuclear Pore Complex Function Using Scanning Force Microscopy. Biophysical Journal, 2003, 85, 4093-4098.	0.5	11
41	Automated time-resolved analysis of bacteriaâ€“substrate interactions using functionalized microparticles and flow cytometry. Biomaterials, 2011, 32, 4347-4357.	11.4	11
42	An adaptable stage perfusion incubator for the controlled cultivation of C₂C₁₂ myoblasts. Analyst, The, 2015, 140, 127-133.	3.5	11
43	Cellâ€Derived Vesicles as TRPC1 Channel Delivery Systems for the Recovery of Cellular Respiratory and Proliferative Capacities. Advanced Biology, 2020, 4, e2000146.	3.0	10
44	A Semi-automated Electrophysiology System for Recording from Xenopus Oocytes Under Microgravity Conditions. Microgravity Science and Technology, 2012, 24, 237-244.	1.4	9
45	Comparative study of xeno-free induction protocols for neural differentiation of human dental pulp stem cells in vitro. Archives of Oral Biology, 2020, 109, 104572.	1.8	9
46	Modulated TRPC1 Expression Predicts Sensitivity of Breast Cancer to Doxorubicin and Magnetic Field Therapy: Segue Towards a Precision Medicine Approach. Frontiers in Oncology, 2021, 11, 783803.	2.8	9
47	Digital holographic microscopy for the cytomorphological imaging of cells under zero gravity. , 2012, , .		2
48	Touch Channels Sense Blood Pressure. Neuron, 1998, 21, 1224-1226.	8.1	1
49	Persistent quadriceps muscle atrophy after anterior cruciate ligament reconstruction is associated with alterations in exercise-induced myokine production. Asia-Pacific Journal of Sports Medicine, Arthroscopy, Rehabilitation and Technology, 2022, 29, 35-42.	1.0	1