

Luis Polo-Parada

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

1,237
citations

20
h-index

34
g-index

55
ext. papers

1,383
ext. citations

5.3
avg, IF

4.42
L-index

#	Paper	IF	Citations
51	Laser-induced sound pinging for the rapid determination of total sugar or sweetener content in commercial beverages.. <i>Talanta</i> , 2021 , 240, 123034	6.2	
50	Thermally corrected solutions of the one-dimensional wave equation for the laser-induced ultrasound. <i>Journal of Applied Physics</i> , 2021 , 130, 025104	2.5	1
49	The effect of NAMPT deletion in projection neurons on the function and structure of neuromuscular junction (NMJ) in mice. <i>Scientific Reports</i> , 2020 , 10, 99	4.9	5
48	Laser-induced sound pinging (LISP): A rapid photoacoustic method to determine the speed of sound in microliter fluid volumes. <i>Sensors and Actuators B: Chemical</i> , 2019 , 291, 401-410	8.5	5
47	Activation of alpha-1 adrenergic receptors increases cytosolic calcium in neurons of the paraventricular nucleus of the hypothalamus. <i>Journal of Neuroendocrinology</i> , 2019 , 31, e12791	3.8	4
46	Norepinephrine Increases Cytosolic Ca ²⁺ in Neurons of the Paraventricular Nucleus of the Hypothalamus via Multiple Signaling Pathways. <i>FASEB Journal</i> , 2019 , 33, 744.2	0.9	
45	Fixed-Path Length Laser-Induced Sound Pinging: A Streamlined Method for Sound Speed Determination in Arbitrary Liquids. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4924-4931	2.8	2
44	Prolonged Exposure to Insulin Inactivates Akt and Erk and Increases Pancreatic Islet and INS1E -Cell Apoptosis. <i>Journal of the Endocrine Society</i> , 2019 , 3, 69-90	0.4	8
43	Effects of optical attenuation, heat diffusion, and acoustic coherence in photoacoustic signals produced by nanoparticles. <i>Applied Physics Letters</i> , 2018 , 112, 143101	3.4	6
42	Artifacts and Errors Associated with the Ubiquitous Presence of Fluorescent Impurities in Carbon Nanodots. <i>Chemistry of Materials</i> , 2018 , 30, 1878-1887	9.6	135
41	Norepinephrine Increases Cytosolic Ca ²⁺ in Neurons of the Paraventricular Nucleus of the Hypothalamus. <i>FASEB Journal</i> , 2018 , 32, 732.13	0.9	
40	Tropomyosin 1: Multiple roles in the developing heart and in the formation of congenital heart defects. <i>Journal of Molecular and Cellular Cardiology</i> , 2017 , 106, 1-13	5.8	24
39	HO augments cytosolic calcium in nucleus tractus solitarii neurons via multiple voltage-gated calcium channels. <i>American Journal of Physiology - Cell Physiology</i> , 2017 , 312, C651-C662	5.4	8
38	Spectrophotometric analysis at the single-cell level: elucidating dispersity within melanic immortalized cell populations. <i>Analyst, The</i> , 2017 , 142, 1482-1491	5	2
37	Deletion of Nampt in Projection Neurons of Adult Mice Leads to Motor Dysfunction, Neurodegeneration, and Death. <i>Cell Reports</i> , 2017 , 20, 2184-2200	10.6	37
36	Pee-dots: biocompatible fluorescent carbon dots derived from the upcycling of urine. <i>Green Chemistry</i> , 2016 , 18, 243-250	10	128
35	Probing the Electrophysiology of the Developing Heart. <i>Journal of Cardiovascular Development and Disease</i> , 2016 , 3,	4.2	4

34	Domestic pressure cooker as inexpensive hydrothermal vessel: Demonstrated utility for eco-friendly synthesis of non-toxic carbon dots. <i>Nano Structures Nano Objects</i> , 2016 , 6, 52-58	5.6	14
33	Sunlight-assisted route to antimicrobial plasmonic aminoclay catalysts. <i>Nanoscale</i> , 2015 , 7, 86-91	7.7	21
32	Enhancement of neuromuscular dynamics and strength behavior using extremely low magnitude mechanical signals in mice. <i>Journal of Biomechanics</i> , 2014 , 47, 162-7	2.9	12
31	In Situ Characterization of Laser Ablation by Pulsed Photoacoustics: The Case of Organic Nanocrystal Synthesis. <i>International Journal of Thermophysics</i> , 2013 , 34, 1828-1837	2.1	3
30	Quantitative Photoacoustic Spectroscopy in the Frequency Domain. <i>International Journal of Thermophysics</i> , 2013 , 34, 1703-1711	2.1	
29	Femtogram-level detection of Clostridium botulinum neurotoxin type A by sandwich immunoassay using nanoporous substrate and ultra-bright fluorescent suprananoparticles. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 409-16	11.8	23
28	Protease biosensing on novel high surface area organosilicate nanoporous films. <i>Sensors and Actuators B: Chemical</i> , 2013 , 176, 351-359	8.5	7
27	Differences in Expression and Function in the Atrium versus Ventricle of the Sodium-Calcium Exchanger in the Embryonic Chicken Heart. <i>ISRN Physiology</i> , 2013 , 2013, 1-12		
26	Confeito-like assembly of organosilicate-caged fluorophores: ultrabright suprananoparticles for fluorescence imaging. <i>Nanotechnology</i> , 2012 , 23, 175601	3.4	8
25	Electrical conduction along endothelial cell tubes from mouse feed arteries: confounding actions of glycyrrhetic acid derivatives. <i>British Journal of Pharmacology</i> , 2012 , 166, 774-87	8.6	44
24	Kinetically limited differential centrifugation as an inexpensive and readily available alternative to centrifugal elutriation. <i>BioTechniques</i> , 2012 , 53, 104-8	2.5	8
23	An experimental and theoretical approach to the study of the photoacoustic signal produced by cancer cells. <i>AIP Advances</i> , 2012 , 2, 011102	1.5	11
22	Microiontophoresis and micromanipulation for intravital fluorescence imaging of the microcirculation. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	2
21	Knockdown of embryonic myosin heavy chain reveals an essential role in the morphology and function of the developing heart. <i>Development (Cambridge)</i> , 2011 , 138, 3955-66	6.6	21
20	A comparative evaluation of microarray slides as substrates for the development of protease assay biosensors. <i>Experimental and Molecular Pathology</i> , 2011 , 91, 714-7	4.4	1
19	Frequency-dependent modes of synaptic vesicle endocytosis and exocytosis at adult mouse neuromuscular junctions. <i>Journal of Neuroscience</i> , 2011 , 31, 1093-105	6.6	30
18	Detection of melanoma cells in vitro using an optical detector of photoacoustic waves. <i>Lasers in Surgery and Medicine</i> , 2010 , 42, 274-81	3.6	16
17	Development of a Miniaturized Liquid Core Waveguide System With Nanoporous Dielectric Cladding: A Potential Biosensing Platform. <i>IEEE Sensors Journal</i> , 2009 , 9, 1711-1718	4	15

16	Characterization of rhythmic Ca ²⁺ transients in early embryonic chick motoneurons: Ca ²⁺ sources and effects of altered activation of transmitter receptors. <i>Journal of Neuroscience</i> , 2009 , 29, 15232-44	6.6	30
15	Cardiac cushions modulate action potential phenotype during heart development [corrected]. <i>Developmental Dynamics</i> , 2009 , 238, 611-23	2.9	6
14	Preferential cell attachment to nitrogen-doped diamond-like carbon (DLC:N) for the measurement of quantal exocytosis. <i>Biomaterials</i> , 2009 , 30, 1604-12	15.6	25
13	Selective targeting of different neural cell adhesion molecule isoforms during motoneuron myotube synapse formation in culture and the switch from an immature to mature form of synaptic vesicle cycling. <i>Journal of Neuroscience</i> , 2007 , 27, 14481-93	6.6	25
12	Site-directed antibodies to low-voltage-activated calcium channel Ca _v 3.3 (alpha1I) subunit also target neural cell adhesion molecule-180. <i>Neuroscience</i> , 2007 , 145, 981-96	3.9	10
11	CD24 is expressed by myofiber synaptic nuclei and regulates synaptic transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 6374-9	11.5	25
10	Insulin induces a desensitization of insulin and IGF-1 signaling in INS1-E beta-cells: Mechanisms and consequences on function and survival. <i>FASEB Journal</i> , 2006 , 20, A1170	0.9	
9	NCAM 180 acting via a conserved C-terminal domain and MLCK is essential for effective transmission with repetitive stimulation. <i>Neuron</i> , 2005 , 46, 917-31	13.9	53
8	Action potential stimulation reveals an increased role for P/Q-calcium channel-dependent exocytosis in mouse adrenal tissue slices. <i>Archives of Biochemistry and Biophysics</i> , 2005 , 435, 65-73	4.1	38
7	Adrenal chromaffin cells exhibit impaired granule trafficking in NCAM knockout mice. <i>Journal of Neurophysiology</i> , 2005 , 94, 1037-47	3.2	30
6	Distinct roles of different neural cell adhesion molecule (NCAM) isoforms in synaptic maturation revealed by analysis of NCAM 180 kDa isoform-deficient mice. <i>Journal of Neuroscience</i> , 2004 , 24, 1852-64	6.6	83
5	Alterations in transmission, vesicle dynamics, and transmitter release machinery at NCAM-deficient neuromuscular junctions. <i>Neuron</i> , 2001 , 32, 815-28	13.9	132
4	Structural and functional alterations of neuromuscular junctions in NCAM-deficient mice. <i>Journal of Neuroscience</i> , 2000 , 20, 6529-39	6.6	108
3	A nitric oxide/cyclic GMP-dependent protein kinase pathway alters transmitter release and inhibition by somatostatin at a site downstream of calcium entry. <i>Journal of Neurochemistry</i> , 1999 , 72, 1981-90	6	15
2	kappa- and mu-opioids reverse the somatostatin inhibition of Ca ²⁺ currents in ciliary and dorsal root ganglion neurons. <i>Journal of Neuroscience</i> , 1999 , 19, 5213-27	6.6	13
1	Block of N-type calcium channels in chick sensory neurons by external sodium. <i>Journal of General Physiology</i> , 1997 , 109, 693-702	3.4	37