

Santiago Costantino

List of Publications by Year in descending order

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81
papers

3,001
citations

186254

28
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182417

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all docs

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docs citations

84
times ranked

4751
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatiotemporal Image Correlation Spectroscopy (STICS) Theory, Verification, and Application to Protein Velocity Mapping in Living CHO Cells. <i>Biophysical Journal</i> , 2005, 88, 3601-3614.	0.5	385
2	The Mitochondrial Transcription Factor TFAM Coordinates the Assembly of Multiple DNA Molecules into Nucleoid-like Structures. <i>Molecular Biology of the Cell</i> , 2007, 18, 3225-3236.	2.1	340
3	Ischemic neurons prevent vascular regeneration of neural tissue by secreting semaphorin 3A. <i>Blood</i> , 2011, 117, 6024-6035.	1.4	157
4	Stalled developmental programs at the root of pediatric brain tumors. <i>Nature Genetics</i> , 2019, 51, 1702-1713.	21.4	136
5	A Guide to Accurate Fluorescence Microscopy Colocalization Measurements. <i>Biophysical Journal</i> , 2006, 91, 4611-4622.	0.5	130
6	Revealing protein oligomerization and densities in situ using spatial intensity distribution analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7010-7015.	7.1	101
7	A redox switch in ϵ -reactive protein modulates activation of endothelial cells. <i>FASEB Journal</i> , 2011, 25, 3186-3196.	0.5	77
8	Sampling Effects, Noise, and Photobleaching in Temporal Image Correlation Spectroscopy. <i>Biophysical Journal</i> , 2006, 90, 628-639.	0.5	73
9	The Role of Ceroid Lipofuscinosis Neuronal Protein 5 (CLN5) in Endosomal Sorting. <i>Molecular and Cellular Biology</i> , 2012, 32, 1855-1866.	2.3	65
10	Accuracy and Dynamic Range of Spatial Image Correlation and Cross-Correlation Spectroscopy. <i>Biophysical Journal</i> , 2005, 89, 1251-1260.	0.5	63
11	PRMT5 is essential for B cell development and germinal center dynamics. <i>Nature Communications</i> , 2019, 10, 22.	12.8	61
12	Spatially mapping the immune landscape of melanoma using imaging mass cytometry. <i>Science Immunology</i> , 2022, 7, eabi5072.	11.9	60
13	Adaptive settings for the nearest-neighbor particle tracking algorithm. <i>Bioinformatics</i> , 2015, 31, 1279-1285.	4.1	57
14	Patterning protein concentration using laser-assisted adsorption by photobleaching, LAPAP. <i>Lab on a Chip</i> , 2008, 8, 2164.	6.0	54
15	Ultrafast optical generation of coherent phonons in CdTe δ -Se quantum dots. <i>Physical Review B</i> , 2004, 69, .	3.2	52
16	The phosphatidylinositol 4-kinase PI4KIII β is required for the recruitment of GBF1 to Golgi membranes. <i>Journal of Cell Science</i> , 2010, 123, 2273-2280.	2.0	50
17	Open-source algorithm for automatic choroid segmentation of OCT volume reconstructions. <i>Scientific Reports</i> , 2017, 7, 42112.	3.3	50
18	Retrograde and Wallerian Axonal Degeneration Occur Synchronously after Retinal Ganglion Cell Axotomy. <i>American Journal of Pathology</i> , 2012, 181, 62-73.	3.8	49

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19	Non-invasive measurement of choroidal volume change and ocular rigidity through automated segmentation of high-speed OCT imaging. <i>Biomedical Optics Express</i> , 2015, 6, 1694.	2.9	48
20	Sensitive Detection of Malaria Infection by Third Harmonic Generation Imaging. <i>Biophysical Journal</i> , 2008, 94, L26-L28.	0.5	47
21	Rapid multicomponent optical protein patterning. <i>Lab on A Chip</i> , 2009, 9, 3580.	6.0	47
22	Choroidal Involution Is Associated with a Progressive Degeneration of the Outer Retinal Function in a Model of Retinopathy of Prematurity. <i>American Journal of Pathology</i> , 2016, 186, 3100-3116.	3.8	47
23	Replication Protein A Availability during DNA Replication Stress Is a Major Determinant of Cisplatin Resistance in Ovarian Cancer Cells. <i>Cancer Research</i> , 2018, 78, 5561-5573.	0.9	45
24	In Vivo Laser-Mediated Retinal Ganglion Cell Optoporation Using K _v 1.1 Conjugated Gold Nanoparticles. <i>Nano Letters</i> , 2018, 18, 6981-6988.	9.1	44
25	Engineered cell culture substrates for axon guidance studies: moving beyond proof of concept. <i>Lab on A Chip</i> , 2013, 13, 498.	6.0	39
26	Measurement of Ocular Fundus Pulsation in Healthy Subjects Using a Novel Fourier-Domain Optical Coherence Tomography. , 2011, 52, 8927.		35
27	Measurement of Monomer-Oligomer Distributions via Fluorescence Moment Image Analysis. <i>Biophysical Journal</i> , 2006, 91, 3884-3896.	0.5	31
28	Requirement for functional DNA polymerase eta in genome-wide repair of UV-induced DNA damage during S phase. <i>DNA Repair</i> , 2010, 9, 754-764.	2.8	30
29	Axonal Degeneration in Retinal Ganglion Cells Is Associated with a Membrane Polarity-Sensitive Redox Process. <i>Journal of Neuroscience</i> , 2017, 37, 3824-3839.	3.6	30
30	Wide band interferometry for thickness measurement. <i>Optics Express</i> , 2003, 11, 952.	3.4	29
31	Interplay Between Histone H3 Lysine 56 Deacetylation and Chromatin Modifiers in Response to DNA Damage. <i>Genetics</i> , 2015, 200, 185-205.	2.9	29
32	Development of a novel instrument to measure the pulsatile movement of ocular tissues. <i>Experimental Eye Research</i> , 2010, 91, 63-68.	2.6	28
33	CLN5 is cleaved by members of the SPP/SPPL family to produce a mature soluble protein. <i>Experimental Cell Research</i> , 2017, 357, 40-50.	2.6	27
34	BMP9 signaling promotes the normalization of tumor blood vessels. <i>Oncogene</i> , 2020, 39, 2996-3014.	5.9	27
35	Innate Immune-Mediated Neuronal Injury Consequent to Loss of Astrocytes. <i>Journal of Neuropathology and Experimental Neurology</i> , 2008, 67, 590-599.	1.7	24
36	Semi-automated quantification of filopodial dynamics. <i>Journal of Neuroscience Methods</i> , 2008, 171, 165-173.	2.5	23

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37	Analyzing speckle contrast for HiLo microscopy optimization. Optics Express, 2011, 19, 14508.	3.4	23
38	Live single-cell laser tag. Nature Communications, 2016, 7, 11636.	12.8	22
39	Mutations in Replicative Stress Response Pathways Are Associated with S Phase-specific Defects in Nucleotide Excision Repair. Journal of Biological Chemistry, 2016, 291, 522-537.	3.4	22
40	Two-photon fluorescent microlithography for live-cell imaging. Microscopy Research and Technique, 2005, 68, 272-276.	2.2	20
41	C3a elicits unique migratory responses in immature low-density neutrophils. Oncogene, 2020, 39, 2612-2623.	5.9	20
42	Beyond Photobleaching, Laser Illumination Unbinds Fluorescent Proteins. Journal of Physical Chemistry B, 2009, 113, 5225-5233.	2.6	19
43	A Haptotaxis Assay for Neutrophils using Optical Patterning and a High-content Approach. Scientific Reports, 2017, 7, 2869.	3.3	19
44	Pulsatile Movement of the Optic Nerve Head and the Peripapillary Retina in Normal Subjects and in Glaucoma. , 2012, 53, 7819.		18
45	Spectral-domain phase microscopy with improved sensitivity using two-dimensional detector arrays. Review of Scientific Instruments, 2011, 82, 023706.	1.3	15
46	High-Content Neurite Development Study Using Optically Patterned Substrates. PLoS ONE, 2012, 7, e35911.	2.5	14
47	The Association Between Ocular Rigidity and Neuroretinal Damage in Glaucoma. , 2020, 61, 11.		14
48	Analysis of Pulsatile Retinal Movements by Spectral-Domain Low-Coherence Interferometry: Influence of Age and Glaucoma on the Pulse Wave. PLoS ONE, 2013, 8, e54207.	2.5	13
49	Non-invasive in vivo measurement of ocular rigidity: Clinical validation, repeatability and method improvement. Experimental Eye Research, 2020, 190, 107831.	2.6	13
50	A potent nuclear export mechanism imposes USP16 cytoplasmic localization during interphase. Journal of Cell Science, 2020, 133, .	2.0	13
51	A machine learning approach for automated assessment of retinal vasculature in the oxygen induced retinopathy model. Scientific Reports, 2018, 8, 3916.	3.3	12
52	Fluorescent two-photon nanolithography. Journal of Microscopy, 2008, 229, 540-544.	1.8	11
53	Automatic 3D reconstruction of quasi-planar stereo Scanning Electron Microscopy (SEM) images*. , 2012, 2012, 4361-4.		11
54	Laser-Assisted Adsorption by Photobleaching. Methods in Cell Biology, 2014, 119, 125-140.	1.1	10

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55	Calnuc Function in Endosomal Sorting of Lysosomal Receptors. <i>Traffic</i> , 2016, 17, 416-432.	2.7	10
56	Opto-magnetic capture of individual cells based on visual phenotypes. <i>ELife</i> , 2019, 8, .	6.0	9
57	Laser-Based Single-Axon Transection for High-Content Axon Injury and Regeneration Studies. <i>PLoS ONE</i> , 2011, 6, e26832.	2.5	9
58	Second harmonic generation microscopy to investigate collagen configuration: a pericarditis case study. <i>Cardiovascular Pathology</i> , 2010, 19, e125-e128.	1.6	8
59	Analysis of AQP4 Trafficking Vesicle Dynamics Using a High-Content Approach. <i>Biophysical Journal</i> , 2013, 105, 328-337.	0.5	8
60	Smoothness assessment of corneal stromal surfaces. <i>Journal of Cataract and Refractive Surgery</i> , 2013, 39, 118-127.	1.5	8
61	Novel Anti-Interleukin-1 β Therapy Preserves Retinal Integrity: A Longitudinal Investigation Using OCT Imaging and Automated Retinal Segmentation in Small Rodents. <i>Frontiers in Pharmacology</i> , 2020, 11, 296.	3.5	8
62	An open-source algorithm for rapid unbiased determination of DNA fiber length. <i>DNA Repair</i> , 2019, 74, 26-37.	2.8	7
63	Correlation of ocular rigidity with intraocular pressure spike after intravitreal injection of bevacizumab in exudative retinal disease. <i>British Journal of Ophthalmology</i> , 2021, 105, 392-396.	3.9	7
64	Preventing Corneal Calcification Associated With Xylazine for Longitudinal Optical Coherence Tomography in Young Rodents. , 2017, 58, 461-469.		7
65	Automatic segmentation of the optic nerve head for deformation measurements in video rate optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2015, 20, 116008.	2.6	6
66	Exploiting Molecular Barcodes in High-Throughput Cellular Assays. <i>SLAS Technology</i> , 2019, 24, 298-307.	1.9	6
67	Throughput limitations for the direct space-to-time pulse shaper. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001, 18, 1227.	2.1	3
68	Fast scanner with position monitor for large optical delays. <i>Optics Communications</i> , 2001, 198, 287-291.	2.1	3
69	Fabrication of protein gradients for cell culture using a miniature squeegee. <i>Journal of Proteomics</i> , 2008, 70, 1192-1195.	2.4	3
70	Effect of Corneal Hydration on the Quality of the Femtosecond Laser Anterior Lamellar Cut. <i>PLoS ONE</i> , 2014, 9, e98852.	2.5	3
71	Pilot study of the pulsatile neuro-peripapillary retinal deformation in glaucoma and its relationship with glaucoma risk factors. <i>Current Eye Research</i> , 2017, 42, 1620-1627.	1.5	3
72	Preparing Uniform-Thickness Corneal Endothelial Grafts from Donor Tissues Using a Non-Amplified Femtosecond Laser. <i>PLoS ONE</i> , 2013, 8, e83185.	2.5	3

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73	Painting cells with light. Biochemist, 2016, 38, 8-11.	0.5	3
74	Opto-magnetic Selection and Isolation of Single Cells. Bio-protocol, 2019, 9, e3428.	0.4	2
75	Motility-Based Single-Cell Capture and Expansion from a Heterogeneous Cell Culture. Biophysical Journal, 2020, 118, 312a.	0.5	1
76	Resonant excitation of coherent phonons in CdTe/sub 1-x/Se/sub x/ quantum dots. , 0, , .		0
77	Density amplification in laser-assisted protein adsorption by photobleaching. Proceedings of SPIE, 2010, , .	0.8	0
78	High Content Study of Vesicular Trafficking in Polarized Cells. Biophysical Journal, 2012, 102, 194a.	0.5	0
79	Single Cell Fluorescent Labelling in 3-Dimensional Environments. Biophysical Journal, 2017, 112, 295a.	0.5	0
80	Cell Line Phenotypic Enrichment based on Migration and Morphology. Biophysical Journal, 2017, 112, 134a.	0.5	0
81	Ocular rigidity and neuroretinal damage in patients with vasospasticity: a pilot study. Canadian Journal of Ophthalmology, 2023, 58, 338-345.	0.7	0