

Santiago Costantino

List of Publications by Year in descending order

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81
papers

3,001
citations

186265
28
h-index

182427
51
g-index

84
all docs

84
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. Biophysical Journal, 2005, 88, 3601-3614.	0.5	385
2	The Mitochondrial Transcription Factor TFAM Coordinates the Assembly of Multiple DNA Molecules into Nucleoid-like Structures. Molecular Biology of the Cell, 2007, 18, 3225-3236.	2.1	340
3	Ischemic neurons prevent vascular regeneration of neural tissue by secreting semaphorin 3A. Blood, 2011, 117, 6024-6035.	1.4	157
4	Stalled developmental programs at the root of pediatric brain tumors. Nature Genetics, 2019, 51, 1702-1713.	21.4	136
5	A Guide to Accurate Fluorescence Microscopy Colocalization Measurements. Biophysical Journal, 2006, 91, 4611-4622.	0.5	130
6	Revealing protein oligomerization and densities in situ using spatial intensity distribution analysis. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7010-7015.	7.1	101
7	A redox switch in ϵ -reactive protein modulates activation of endothelial cells. FASEB Journal, 2011, 25, 3186-3196.	0.5	77
8	Sampling Effects, Noise, and Photobleaching in Temporal Image Correlation Spectroscopy. Biophysical Journal, 2006, 90, 628-639.	0.5	73
9	The Role of Ceroid Lipofuscinosis Neuronal Protein 5 (CLN5) in Endosomal Sorting. Molecular and Cellular Biology, 2012, 32, 1855-1866.	2.3	65
10	Accuracy and Dynamic Range of Spatial Image Correlation and Cross-Correlation Spectroscopy. Biophysical Journal, 2005, 89, 1251-1260.	0.5	63
11	PRMT5 is essential for B cell development and germinal center dynamics. Nature Communications, 2019, 10, 22.	12.8	61
12	Spatially mapping the immune landscape of melanoma using imaging mass cytometry. Science Immunology, 2022, 7, eabi5072.	11.9	60
13	Adaptive settings for the nearest-neighbor particle tracking algorithm. Bioinformatics, 2015, 31, 1279-1285.	4.1	57
14	Patterning protein concentration using laser-assisted adsorption by photobleaching, LAPAP. Lab on A Chip, 2008, 8, 2164.	6.0	54
15	Ultrafast optical generation of coherent phonons in CdTe λ -Sex quantum dots. Physical Review B, 2004, 69, .	3.2	52
16	The phosphatidylinositol 4-kinase PI4KIII β is required for the recruitment of GBF1 to Golgi membranes. Journal of Cell Science, 2010, 123, 2273-2280.	2.0	50
17	Open-source algorithm for automatic choroid segmentation of OCT volume reconstructions. Scientific Reports, 2017, 7, 42112.	3.3	50
18	Retrograde and Wallerian Axonal Degeneration Occur Synchronously after Retinal Ganglion Cell Axotomy. American Journal of Pathology, 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. Biomedical Optics Express, 2015, 6, 1694.	2.9	48
20	Sensitive Detection of Malaria Infection by Third Harmonic Generation Imaging. Biophysical Journal, 2008, 94, L26-L28.	0.5	47
21	Rapid multicomponent optical protein patterning. Lab on A Chip, 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. American Journal of Pathology, 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. Cancer Research, 2018, 78, 5561-5573.	0.9	45
24	In Vivo Laser-Mediated Retinal Ganglion Cell Optoporation Using K ₂ S ₂ O ₈ 1.1 Conjugated Gold Nanoparticles. Nano Letters, 2018, 18, 6981-6988.	9.1	44
25	Engineered cell culture substrates for axon guidance studies: moving beyond proof of concept. Lab on A Chip, 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. Biophysical Journal, 2006, 91, 3884-3896.	0.5	31
28	Requirement for functional DNA polymerase η in genome-wide repair of UV-induced DNA damage during S phase. DNA Repair, 2010, 9, 754-764.	2.8	30
29	Axonal Degeneration in Retinal Ganglion Cells Is Associated with a Membrane Polarity-Sensitive Redox Process. Journal of Neuroscience, 2017, 37, 3824-3839.	3.6	30
30	Wide band interferometry for thickness measurement. Optics Express, 2003, 11, 952.	3.4	29
31	Interplay Between Histone H3 Lysine 56 Deacetylation and Chromatin Modifiers in Response to DNA Damage. Genetics, 2015, 200, 185-205.	2.9	29
32	Development of a novel instrument to measure the pulsatile movement of ocular tissues. Experimental Eye Research, 2010, 91, 63-68.	2.6	28
33	CLN5 is cleaved by members of the SPP/SPPL family to produce a mature soluble protein. Experimental Cell Research, 2017, 357, 40-50.	2.6	27
34	BMP9 signaling promotes the normalization of tumor blood vessels. Oncogene, 2020, 39, 2996-3014.	5.9	27
35	Innate Immune-Mediated Neuronal Injury Consequent to Loss of Astrocytes. Journal of Neuropathology and Experimental Neurology, 2008, 67, 590-599.	1.7	24
36	Semi-automated quantification of filopodial dynamics. Journal of Neuroscience Methods, 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