

Iván Coto Hernández

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

415
citations

840119

11
h-index

752256

20
g-index

31
all docs

31
docs citations

31
times ranked

448
citing authors

#	ARTICLE	IF	CITATIONS
1	Encoding and decoding spatio-temporal information for super-resolution microscopy. <i>Nature Communications</i> , 2015, 6, 6701.	5.8	95
2	Gated CW-STED microscopy: A versatile tool for biological nanometer scale investigation. <i>Methods</i> , 2014, 66, 124-130.	1.9	60
3	A new filtering technique for removing anti-Stokes emission background in gated CW-STED microscopy. <i>Journal of Biophotonics</i> , 2014, 7, 376-380.	1.1	36
4	Gated-sted microscopy with subnanosecond pulsed fiber laser for reducing photobleaching. <i>Microscopy Research and Technique</i> , 2016, 79, 785-791.	1.2	27
5	Two-Photon Excitation STED Microscopy with Time-Gated Detection. <i>Scientific Reports</i> , 2016, 6, 19419.	1.6	27
6	Gated STED microscopy with time-gated single-photon avalanche diode. <i>Biomedical Optics Express</i> , 2015, 6, 2258.	1.5	26
7	Removal of anti-Stokes emission background in STED microscopy by FPGA-based synchronous detection. <i>Review of Scientific Instruments</i> , 2017, 88, 053701.	0.6	25
8	Fluorescent Reporter Mice for Nerve Guidance Conduit Assessment: A High-Throughput in vivo Model. <i>Laryngoscope</i> , 2018, 128, E386-E392.	1.1	18
9	A Rapid Protocol for Intraoperative Assessment of Peripheral Nerve Myelinated Axon Count and Its Application to Cross-Facial Nerve Grafting. <i>Plastic and Reconstructive Surgery</i> , 2019, 143, 771-778.	0.7	16
10	Influence of laser intensity noise on gated CW-STED microscopy. <i>Laser Physics Letters</i> , 2014, 11, 095603.	0.6	14
11	Chromium, Cobalt and Nickel Contents in Urban Soils of Moa, Northeastern Cuba. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2011, 86, 189-193.	1.3	13
12	Efficient two-photon excitation stimulated emission depletion nanoscope exploiting spatiotemporal information. <i>Neurophotonics</i> , 2019, 6, 1.	1.7	12
13	Label-free histomorphometry of peripheral nerve by stimulated Raman spectroscopy. <i>Muscle and Nerve</i> , 2020, 62, 137-142.	1.0	11
14	Stain-Free Resolution of Unmyelinated Axons in Transgenic Mice Using Fluorescence Microscopy. <i>Journal of Neuropathology and Experimental Neurology</i> , 2019, 78, 1178-1180.	0.9	10
15	Supercritical angle fluorescence for enhanced axial sectioning in STED microscopy. <i>Methods</i> , 2020, 174, 20-26.	1.9	7
16	Implantable wireless device for study of entrapment neuropathy. <i>Journal of Neuroscience Methods</i> , 2020, 329, 108461.	1.3	3
17	Two-photon excitation fluorescent spectral and decay properties of retrograde neuronal tracer Fluoro-Gold. <i>Scientific Reports</i> , 2021, 11, 18053.	1.6	3
18	Gamma radiation effects on molecular characteristic of vegetable tannins. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 299, 1787-1792.	0.7	2

#	ARTICLE	IF	CITATIONS
19	The Importance of Photon Arrival Times in STED Microscopy. Springer Series on Fluorescence, 2014, , 283-301.	0.8	2
20	Theoretical study of laser intensity noise effect on CW-STED microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2022, 39, 702.	0.8	2
21	STED Microscopy with Time-Gated Detection:Benefits and Limitations. Biophysical Journal, 2013, 104, 667a-668a.	0.2	1
22	A New Efficient Implementation of 2PE-STED Microscopy. Biophysical Journal, 2014, 106, 605a.	0.2	1
23	A Novel STED Microscope with Nanometer Axial Sectioning. Biophysical Journal, 2017, 112, 140a-141a.	0.2	1
24	Improving multiphoton STED nanoscopy with separation of photons by Lifetime Tuning (SPLIT). , 2018, , .		1
25	Multiharmonic Imaging of Human Peripheral Nerves using a 1300 nm Ultrafast Fiber Laser. , 2020, , .		1
26	Automated stain-free histomorphometry of peripheral nerve by contrast-enhancing techniques and artificial intelligence. Journal of Neuroscience Methods, 2022, 375, 109598.	1.3	1
27	Characterization of Scattering Effects in Phantom Samples using Single and Two-Photon Excitation Light Sheet Microscopy. Biophysical Journal, 2012, 102, 195a-196a.	0.2	0
28	Background-Free Super-Resolution Microscopy of Subcellular Structures by Lifetime Tuning and Photons Separation. Biophysical Journal, 2015, 108, 359a.	0.2	0
29	The importance of the photon arrival times in STED microscopy. Proceedings of SPIE, 2015, , .	0.8	0
30	Advances in Gated CW STED Microscopy: Toward a Versatile Implementation. Biophysical Journal, 2016, 110, 162a.	0.2	0