Liisa M Hirvonen

List of Publications by Year
in descending order

47 papers	1,239 citations	489802 18 h-index	425179 34 g-index
51 all docs	51 docs citations	51 times ranked	2114 citing authors

#	Article	IF	Citations
1	How did correlative atomic force microscopy and super-resolution microscopy evolve in the quest for unravelling enigmas in biology?. Nanoscale, 2021, 13, 2082-2099.	2.8	27
2	Lightsheet fluorescence lifetime imaging microscopy with wideâ€field timeâ€correlated single photon counting. Journal of Biophotonics, 2020, 13, e201960099.	1.1	26
3	Combined AFM and super-resolution localisation microscopy: Investigating the structure and dynamics of podosomes. European Journal of Cell Biology, 2020, 99, 151106.	1.6	20
4	Mapping O2 concentration in ex-vivo tissue samples on a fast PLIM macro-imager. Scientific Reports, 2020, 10, 19006.	1.6	8
5	Characterization of planar phosphorescence based oxygen sensors on a TCSPC-PLIM macro-imager. Sensors and Actuators B: Chemical, 2020, 321, 128459.	4.0	5
6	Fast Timing Techniques in FLIM Applications. Frontiers in Physics, 2020, 8, .	1.0	25
7	New luminescence lifetime macro-imager based on a Tpx3Cam optical camera. Biomedical Optics Express, 2020, 11, 77.	1.5	18
8	Singletâ€“Triplet Transition Rate Enhancement inside Hyperbolic Metamaterials. Laser and Photonics Reviews, 2019, 13, 1900101.	4.4	10
9	Wide-field time-correlated single photon counting-based fluorescence lifetime imaging microscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 942, 162365.	0.7	26
10	PAK4 Kinase Activity Plays a Crucial Role in the Podosome Ring of Myeloid Cells. Cell Reports, 2019, 29, 3385-3393.e6.	2.9	20
11	Fluorescence Recovery After Photobleaching (FRAP) with simultaneous Fluorescence Lifetime and time-resolved Fluorescence Anisotropy Imaging (FLIM and tr-FAIM). , 2019, , .		0
12	Fluorescence lifetime imaging for viscosity and diffusion measurements. , 2019, , .		2
13	Super-resolution Optical Microscopy with Structured Illumination. , 2019, , 383-414.		0
14	Cardiomyocytes Sense Matrix Rigidity through a Combination of Muscle and Non-muscle Myosin Contractions. Developmental Cell, 2018, 44, 326-336.e3.	3.1	101
15	STORM without enzymatic oxygen scavenging for correlative atomic force and fluorescence superresolution microscopy. Methods and Applications in Fluorescence, 2018, 6, 045002.	1.1	15
16	Artifact-free high-density localization microscopy analysis. Nature Methods, 2018, 15, 689-692.	9.0	79
17	The RÃ©nyi divergence enables accurate and precise cluster analysis for localization microscopy. Bioinformatics, 2018, 34, 4102-4111.	1.8	5
18	Photon counting phosphorescence lifetime imaging with TimepixCam. Review of Scientific Instruments, 2017, 88, 013104.	0.6	23

#	Article	IF	Citations
19	Spontaneous emission in non-local materials. Light: Science and Applications, 2017, 6, e16273-e16273.	7.7	75
20	Wide-field TCSPC: methods and applications. Measurement Science and Technology, 2017, 28, 012003.	1.4	60
21	Fluorescence Lifetime Imaging. , 2017, , 353-405.		3
22	Photon Counting Imaging with an Electron-Bombarded Pixel Image Sensor. Sensors, 2016, 16, 617.	2.1	13
23	Hydrodynamic Radii of Ranibizumab, Aflibercept and Bevacizumab Measured by Time-Resolved Phosphorescence Anisotropy. Pharmaceutical Research, 2016, 33, 2025-2032.	1.7	32
24	Picosecond wide-field time-correlated single photon counting fluorescence microscopy with a delay line anode detector. Applied Physics Letters, 2016, 109, .	1.5	21
25	A wide-field TCSPC FLIM system based on an MCP PMT with a delay-line anode. Review of Scientific Instruments, 2016, 87, 093710.	0.6	23
26	Wide-field TCSPC-based fluorescence lifetime imaging (FLIM) microscopy. , 2016, , .		4
27	Photon counting imaging and centroiding with an electron-bombarded CCD using single molecule localisation software. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 820, 121-125.	0.7	8
28	Microsecond wide-field TCSPC microscopy based on an ultra-fast CMOS camera. Proceedings of SPIE, 2015, , .	0.8	2
29	Wide-field time-correlated single photon counting (TCSPC) microscopy with time resolution below the frame exposure time. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 787, 1-5.	0.7	6
30	Sub-Î¼s time resolution in wide-field time-correlated single photon counting microscopy obtained from the photon event phosphor decay. New Journal of Physics, 2015, 17, 023032.	1.2	24
31	Multiphoton luminescence imaging of chemically functionalized multi-walled carbon nanotubes in cells and solid tumors. Chemical Communications, 2015, 51, 9366-9369.	2.2	20
32	Photon counting imaging with an electron-bombarded CCD: Towards wide-field time-correlated single photon counting (TCSPC). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 787, 323-327.	0.7	13
33	Fluorescence lifetime imaging (FLIM): Basic concepts and some recent developments. Medical Photonics, 2015, 27, 3-40.	3.8	208
34	Single-molecule localization software applied to photon counting imaging. Applied Optics, 2015, 54, 5074.	2.1	6
35	Fluorescence Lifetime Imaging (FLIM): Basic Concepts and Recent Applications. Springer Series in Chemical Physics, 2015, , 119-188.	0.2	9
36	Fluorescence Lifetime Imaging. , 2015, , 1-50.		1

#	Article	IF	Citations
37	Photon counting imaging with an electron-bombarded CCD: Towards a parallel-processing photoelectronic time-to-amplitude converter. Review of Scientific Instruments, 2014, 85, 123102.	0.6	15
38	Multimodal optical characterisation of collagen photodegradation by femtosecond infrared laser ablation. Analyst, The, 2014, 139, 6135-6143.	1.7	15
39	Wide-field time-correlated single-photon counting (TCSPC) lifetime microscopy with microsecond time resolution. Optics Letters, 2014, 39, 5602.	1.7	50
40	Fluorescence Lifetime Imaging. , 2014, , 1-50.		4
41	Nanomorphology of polythiopheneâ€“fullerene bulk-heterojunction films investigated by structured illumination optical imaging and time-resolved confocal microscopy. Methods and Applications in Fluorescence, 2013, 1, 015004.	1.1	12
42	DEEP-UV CONFOCAL FLUORESCENCE IMAGING AND SUPER-RESOLUTION OPTICAL MICROSCOPY OF BIOLOGICAL SAMPLES. Journal of Innovative Optical Health Sciences, 2012, 05, 1250025.	0.5	8
43	Imaging on the Nanoscale: Super-Resolution Fluorescence Microscopy. Australian Journal of Chemistry, 2011, 64, 41.	0.5	11
44	Structured illumination microscopy of living cells. , 2011, , .		0
45	Structured Illumination and Image Inversion Interferometry. Biophysical Journal, 2010, 98, 619a.	0.2	1
46	Structured illumination microscopy of a living cell. European Biophysics Journal, 2009, 38, 807-812.	1.2	149
47	Structured illumination microscopy using photoswitchable fluorescent proteins. Proceedings of SPIE, 2008, , .	0.8	18