Sunil Kumar

List of Publications by Year
in descending order

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39	1,007	471509 17	454955 30
papers	citations	h-index	g-index

44	44	44	1334
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microclusters of inhibitory killer immunoglobulinâ€“like receptor signaling at natural killer cell immunological synapses. Journal of Cell Biology, 2006, 174, 153-161.	5.2	103
2	Multiplexed FRET to Image Multiple Signaling Events in Live Cells. Biophysical Journal, 2008, 95, L69-L71.	0.5	100
3	Multifocal multiphoton excitation and time correlated single photon counting detection for 3-D fluorescence lifetime imaging. Optics Express, 2007, 15, 12548.	3.4	83
4	Screening for protein-protein interactions using FÃ¶rster resonance energy transfer (FRET) and fluorescence lifetime imaging microscopy (FLIM). Scientific Reports, 2016, 6, 28186.	3.3	75
5	High speed optically sectioned fluorescence lifetime imaging permits study of live cell signaling events. Optics Express, 2007, 15, 15656.	3.4	73
6	FLIM FRET Technology for Drug Discovery: Automated Multiwellâ€Plate Highâ€Content Analysis, Multiplexed Readouts and Application in Situ. ChemPhysChem, 2011, 12, 609-626.	2.1	68
7	High-speed 2D and 3D fluorescence microscopy of cardiac myocytes. Optics Express, 2011, 19, 13839.	3.4	67
8	Time-lapse 3-D measurements of a glucose biosensor in multicellular spheroids by light sheet fluorescence microscopy in commercial 96-well plates. Scientific Reports, 2016, 6, 37777.	3.3	48
9	Accelerated Optical Projection Tomography Applied to In Vivo Imaging of Zebrafish. PLoS ONE, 2015, 10, e0136213.	2.5	45
10	Genetic and biased agonist-mediated reductions in Î²-arrestin recruitment prolong cAMP signaling at glucagon family receptors. Journal of Biological Chemistry, 2021, 296, 100133.	3.4	41
11	High speed sCMOS-based oblique plane microscopy applied to the study of calcium dynamics in cardiac myocytes. Journal of Biophotonics, 2016, 9, 311-323.	2.3	36
12	The Influence of Peptide Context on Signaling and Trafficking of Glucagon-like Peptide-1 Receptor Biased Agonists. ACS Pharmacology and Translational Science, 2020, 3, 345-360.	4.9	32
13	Automated fluorescence lifetime imaging plate reader and its application to FÃ¶rster resonant energy transfer readout of Gag protein aggregation. Journal of Biophotonics, 2013, 6, 398-408.	2.3	28
14	Visualising apoptosis in live zebrafish using fluorescence lifetime imaging with optical projection tomography to map FRET biosensor activity in space and time. Journal of Biophotonics, 2016, 9, 414-424.	2.3	28
15	Simultaneous angular multiplexing optical projection tomography at shifted focal planes. Optics Letters, 2013, 38, 851.	3.3	25
16	Remote focal scanning optical projection tomography with an electrically tunable lens. Biomedical Optics Express, 2014, 5, 3367.	2.9	25
17	Quantitative in vivo optical tomography of cancer progression & vasculature development in adult zebrafish. Oncotarget, 2016, 7, 43939-43948.	1.8	23
18	Smad4 controls signaling robustness and morphogenesis by differentially contributing to the Nodal and BMP pathways. Nature Communications, 2021, 12, 6374.	12.8	18

#	Article	IF	Citations
19	Accelerating single molecule localization microscopy through parallel processing on a highâ€performance computing cluster. Journal of Microscopy, 2019, 273, 148-160.	1.8	16
20	Convolutional neural networks for reconstruction of undersampled optical projection tomography data applied to in vivo imaging of zebrafish. Journal of Biophotonics, 2019, 12, e201900128.	2.3	13
21	Automated multiwell fluorescence lifetime imaging for FÃ¶rster resonance energy transfer assays and high content analysis. Analytical Methods, 2015, 7, 4071-4089.	2.7	10
22	Robust deep learning optical autofocus system applied to automated multiwell plate single molecule localization microscopy. Journal of Microscopy, 2022, 288, 130-141.	1.8	10
23	Open Source High Content Analysis Utilizing Automated Fluorescence Lifetime Imaging Microscopy. Journal of Visualized Experiments, 2017, , .	0.3	9
24	Mesoscopic in vivo 3-D tracking of sparse cell populations using angular multiplexed optical projection tomography. Biomedical Optics Express, 2015, 6, 1253.	2.9	6
25	Multidimensional luminescence microscope for imaging defect colour centres in diamond. Methods and Applications in Fluorescence, 2020, 8, 014004.	2.3	5
26	Slice-illuminated optical projection tomography. Optics Letters, 2018, 43, 5555.	3.3	5
27	Chapter 4 Multidimensional fluorescence imaging. Laboratory Techniques in Biochemistry and Molecular Biology / Edited By T S Work [and] E Work, 2009, 33, 133-169.	0.2	4
28	Automated Fluorescence Lifetime Imaging High-Content Analysis of FÃ¶rster Resonance Energy Transfer between Endogenously Labeled Kinetochore Proteins in Live Budding Yeast Cells. SLAS Technology, 2019, 24, 308-320.	1.9	4
29	An automated multiwell plate reading flim microscope for live cell autofluorescence lifetime assays. Journal of Innovative Optical Health Sciences, 2014, 07, 1450025.	1.0	3
30	Multidimensional spectroscopy and imaging of defects in synthetic diamond: excitation-emission-lifetime luminescence measurements with multiexponential fitting and phasor analysis. Journal Physics D: Applied Physics, 2021, 54, 045303.	2.8	2
31	An automated wide-field time-gated optically sectioning fluorescence lifetime imaging multiwell plate reader for high-content analysis of protein-protein interactions. Proceedings of SPIE, 2011, , .	0.8	0
32	High Speed, Optically Sectioned Fluorescence Lifetime Imaging utilizing Time-gated Nipkow Disk or Multifocal Multiphoton Time Correlated Single Photon Counting Microscopy. , 2008, , .		0
33	Rapid in-vivo Optical Projection Tomography of Larval and Adult Zebrafish Disease Models with Angular Multiplexing and FLIM-FRET. , 2015, , .		0
34	Techniques to improve the spatial and temporal resolution in optical projection tomography: remote focal scanning and time-lapse cell tracking. , 2015, , .		0
35	In vivo multiplexed OPT and FLIM OPT of an adult zebrafish cancer disease model. , 2016, , .		0
36	Single-Shot Volumetric Imaging Using Optical Projection Tomography. , 2021, , .		0

#	Article	IF	Citations
37	Towards easier, faster, super-resolved microscopy. , 2020, , .		0
38	FLIM, FRET and high content analysis. , 2020, , .		0
39	Single-shot volumetric imaging using optical projection tomography. , 2021, , .		0