Simon Ameer-Beg

List of Publications by Year
in descending order

91 papers	3,749 citations	109321 35 h-index	133252 59 g-index
93 all docs	93 docs citations	93 times ranked	4495 citing authors

#	Article	IF	Citations
1	Ultrafast Measurements of Excited State Intramolecular Proton Transfer (ESIPT) in Room Temperature Solutions of 3-Hydroxyflavone and Derivatives. Journal of Physical Chemistry A, 2001, 105, 3709-3718.	2.5	229
2	Fluorescence lifetime imaging (FLIM): Basic concepts and some recent developments. Medical Photonics, 2015, 27, 3-40.	3.8	208
3	A dark yellow fluorescent protein (YFP)-based Resonance Energy-Accepting Chromoprotein (REACh) for Forster resonance energy transfer with GFP. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4089-4094.	7.1	200
4	Multiphoton-FLIM Quantification of the EGFP-mRFP1 FRET Pair for Localization of Membrane Receptor-Kinase Interactions. Biophysical Journal, 2005, 88, 1224-1237.	0.5	199
5	Fluorescence lifetime and polarization-resolved imaging in cell biology. Current Opinion in Biotechnology, 2009, 20, 28-36.	6.6	191
6	Intravital imaging of tumour vascular networks using multi-photon fluorescence microscopy. Advanced Drug Delivery Reviews, 2005, 57, 135-152.	13.7	143
7	Essential Role of hIST1 in Cytokinesis. Molecular Biology of the Cell, 2009, 20, 1374-1387.	2.1	133
8	Imaging proteins in vivo using fluorescence lifetime microscopy. Molecular BioSystems, 2007, 3, 381.	2.9	124
9	Monitoring conformational changes of proteins in cells by fluorescence lifetime imaging microscopy. Biochemical Journal, 2003, 372, 33-40.	3.7	111
10	A high speed multifocal multiphoton fluorescence lifetime imaging microscope for live-cell FRET imaging. Biomedical Optics Express, 2015, 6, 277.	2.9	101
11	RORÎ³t+ Innate Lymphoid Cells Promote Lymph Node Metastasis of Breast Cancers. Cancer Research, 2017, 77, 1083-1096.	0.9	93
12	Spatially Distinct Binding of Cdc42 to PAK1 and N-WASP in Breast Carcinoma Cells. Molecular and Cellular Biology, 2005, 25, 1680-1695.	2.3	90
13	Imaging molecular interactions by multiphoton FLIM. Biology of the Cell, 2004, 96, 231-236.	2.0	89
14	Activated Ezrin Promotes Cell Migration through Recruitment of the GEF Dbl to Lipid Rafts and Preferential Downstream Activation of Cdc42. Molecular Biology of the Cell, 2007, 18, 2935-2948.	2.1	87
15	Ku Stimulation of DNA Ligase IV-dependent Ligation Requires Inward Movement along the DNA Molecule. Journal of Biological Chemistry, 2003, 278, 22466-22474.	3.4	69
16	Imaging proteinâ€“protein interactions in cell motility using fluorescence resonance energy transfer (FRET). Biochemical Society Transactions, 2004, 32, 431-433.	3.4	64
17	05 billion events per second time correlated single photon counting using CMOS SPAD arrays. Optics Letters, 2015, 40, 4305.	3.3	62
18	Fluorescence lifetime spectroscopy and imaging of nano-engineered glucose sensor microcapsules based on glucose/galactose-binding protein. Biosensors and Bioelectronics, 2009, 24, 3229-3234.	10.1	61

#	Article	IF	Citations
19	Ultrafast Measurements of Charge and Excited-State Intramolecular Proton Transfer in Solutions of 4â€˜-(N,N-Dimethylamino) Derivatives of 3-Hydroxyflavone. Journal of Physical Chemistry A, 2004, 108, 6938-6943.	2.5	57
20	256 Ã— 2 SPAD line sensor for time resolved fluorescence spectroscopy. Optics Express, 2015, 23, 5653.	3.4	56
21	The potential of optical proteomic technologies to individualize prognosis and guide rational treatment for cancer patients. Targeted Oncology, 2009, 4, 235-252.	3.6	52
22	Fluorescence lifetime endoscopy using TCSPC for the measurement of FRET in live cells. Optics Express, 2010, 18, 11148.	3.4	51
23	Time-Domain Fluorescence Lifetime Imaging Techniques Suitable for Solid-State Imaging Sensor Arrays. Sensors, 2012, 12, 5650-5669.	3.8	51
24	A Fluorescent Biosensor Reveals Conformational Changes in Human Immunoglobulin E Fc. Journal of Biological Chemistry, 2012, 287, 17459-17470.	3.4	49
25	NDP52 activates nuclear myosin VI to enhance RNA polymerase II transcription. Nature Communications, 2017, 8, 1871.	12.8	49
26	Advanced microscopy solutions for monitoring the kinetics and dynamics of drug?DNA targeting in living cells. Advanced Drug Delivery Reviews, 2005, 57, 153-167.	13.7	47
27	How FÃ¶rster Resonance Energy Transfer Imaging Improves the Understanding of Protein Interaction Networks in Cancer Biology. ChemPhysChem, 2011, 12, 442-461.	2.1	46
28	A Targeted siRNA Screen Identifies Regulators of Cdc42 Activity at the Natural Killer Cell Immunological Synapse. Science Signaling, 2011, 4, ra81.	3.6	46
29	Effect of Phosphorylation on EGFR Dimer Stability Probed by Single-Molecule Dynamics and FRET/FLIM. Biophysical Journal, 2015, 108, 1013-1026.	0.5	45
30	In Vitro and in Vivo Characterization of Molecular Interactions between Calmodulin, Ezrin/Radixin/Moesin, and L-selectin. Journal of Biological Chemistry, 2009, 284, 8833-8845.	3.4	42
31	Global and pixel kinetic data analysis for FRET detection by multi-photon time-domain FLIM. , 2005, 5700, 171.		41
32	Integrating Receptor Signal Inputs That Influence Small Rho GTPase Activation Dynamics at the Immunological Synapse. Molecular and Cellular Biology, 2009, 29, 2997-3006.	2.3	38
33	Development of a doubly weighted Gerchbergâ€“Saxton algorithm for use in multibeam imaging applications. Optics Letters, 2014, 39, 2431.	3.3	37
34	Spectral analysis of the DNA targeting bisalkylaminoanthraquinone DRAQ5 in intact living cells. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2006, 69A, 805-814.	1.5	36
35	Real-time fluorescence lifetime actuation for cell sorting using a CMOS SPAD silicon photomultiplier. Optics Letters, 2016, 41, 673.	3.3	36
36	Auxetic structures for variable permeability systems. AICHE Journal, 2001, 47, 2623-2626.	3.6	35

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37	Timeâ€lapse FRET microscopy using fluorescence anisotropy. Journal of Microscopy, 2010, 237, 51-62.	1.8	35
38	Time-resolved multifocal multiphoton microscope for high speed FRET imaging in vivo. Optics Letters, 2014, 39, 6013.	3.3	35
39	A Bayesian method for single molecule, fluorescence burst analysis. Biomedical Optics Express, 2010, 1, 1148.	2.9	34
40	The ErbB4 CYT2 variant protects EGFR from ligand-induced degradation to enhance cancer cell motility. Science Signaling, 2014, 7, ra78.	3.6	34
41	Timeâ€domain microfluidic fluorescence lifetime flow cytometry for highâ€throughput <scp>F</scp>Ã¶rster resonance energy transfer screening. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 104-118.	1.5	33
42	The Gray Institute â€˜openâ€™ highâ€content, fluorescence lifetime microscopes. Journal of Microscopy, 2013, 251, 154-167.	1.8	30
43	New high-speed centre of mass method incorporating background subtraction for accurate determination of fluorescence lifetime. Optics Express, 2016, 24, 6899.	3.4	30
44	FMNL2 regulates dynamics of fascin in filopodia. Journal of Cell Biology, 2020, 219, .	5.2	30
45	A Multi-Functional Imaging Approach to High-Content Protein Interaction Screening. PLoS ONE, 2012, 7, e33231.	2.5	27
46	Timeâ€correlated singleâ€photon counting fluorescence lifetime confocal imaging of decayed and sound dental structures with a whiteâ€light supercontinuum source. Journal of Microscopy, 2007, 225, 126-136.	1.8	26
47	Super-Resolution Imaging Strategies for Cell Biologists Using a Spinning Disk Microscope. PLoS ONE, 2013, 8, e74604.	2.5	26
48	Quantitative real-time imaging of intracellular FRET biosensor dynamics using rapid multi-beam confocal FLIM. Scientific Reports, 2020, 10, 5146.	3.3	26
49	PAK4 suppresses PDZ-RhoGEF activity to drive invadopodia maturation in melanoma cells. Oncotarget, 2016, 7, 70881-70897.	1.8	26
50	<title>Application of multiphoton steady state and lifetime imaging to mapping of tumor vascular architecture <emph type="1">in vivo</emph></title>. , 2002, 4620, 85.		21
51	Functional in vivo imaging using fluorescence lifetime light-sheet microscopy. Optics Letters, 2017, 42, 1269.	3.3	21
52	Semi-automated software for the three-dimensional delineation of complex vascular networks. Journal of Microscopy, 2003, 211, 54-62.	1.8	19
53	TNFR1 membrane reorganization promotes distinct modes of TNFÎ± signaling. Science Signaling, 2019, 12, .	3.6	18
54	An achromatic lens for focusing femtosecond pulses: direct measurement of femtosecond pulse front distortion using a second-order autocorrelation technique. Optics Communications, 1996, 122, 99-104.	2.1	17

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55	Nance-Horan Syndrome-like 1 protein negatively regulates Scar/WAVE-Arp2/3 activity and inhibits lamellipodia stability and cell migration. Nature Communications, 2021, 12, 5687.	12.8	17
56	Detecting intratumoral heterogeneity of EGFR activity by liposome-based in vivo transfection of a fluorescent biosensor. Oncogene, 2017, 36, 3618-3628.	5.9	16
57	Imaging protein-protein interactions by multiphoton FLIM. , 2003, , .		15
58	Development of a fast TCSPC FLIM-FRET imaging system. , 2013, , .		13
59	Osimertinib and anti-HER3 combination therapy engages immune dependent tumor toxicity via STING activation in trans. Cell Death and Disease, 2022, 13, 274.	6.3	11
60	Imaging tumour heterogeneity of the consequences of a PKCÎ±â€“substrate interaction in breast cancer patients. Biochemical Society Transactions, 2014, 42, 1498-1505.	3.4	10
61	Steady-State Acceptor Fluorescence Anisotropy Imaging under Evanescent Excitation for Visualisation of FRET at the Plasma Membrane. PLoS ONE, 2014, 9, e110695.	2.5	10
62	Technique for measurement of fluorescence lifetime by use of stroboscopic excitation and continuous-wave detection. Applied Optics, 2006, 45, 2115.	2.1	9
63	Multifocal multiphoton microscopy with adaptive optical correction. , 2013, , .		9
64	Fluorescence Lifetime Imaging (FLIM): Basic Concepts and Recent Applications. Springer Series in Chemical Physics, 2015, , 119-188.	0.2	9
65	The application of local hypobaric pressure â€" A novel means to enhance macromolecule entry into the skin. Journal of Controlled Release, 2016, 226, 66-76.	9.9	8
66	Special issue on fluorescence lifetime imaging (FLIM): from fundamentals to applications. Methods and Applications in Fluorescence, 2020, 8, 040401.	2.3	8
67	Dynamic imaging of protein-protein interactions by MP-FLIM. , 2005, , .		7
68	Adaptive optics for a time-resolved FÃ¶rster resonance energy transfer (FRET) and fluorescence lifetime imaging microscopy (FLIM) in vivo. Optics Letters, 2020, 45, 2732.	3.3	7
69	Multifocal multiphoton volumetric imaging approach for high-speed time-resolved FÃ¶rster resonance energy transfer imaging in vivo. Optics Letters, 2018, 43, 6057.	3.3	7
70	Deep-tissue multiphoton fluorescence lifetime microscopy for intravital imaging of protein-protein interactions. , 2009, , .		6
71	Improving TCSPC data acquisition from CMOS SPAD arrays. , 2013, , .		5
72	Fluorescence Lifetime Imaging. , 2014, , 1-50.		4

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73	Fluorescence Lifetime Imaging. , 2017, , 353-405.		3
74	Time-resolved multiphoton imaging of the interaction between the PKC and the NFÎºB signalling pathways. , 2003, 5139, 216.		2
75	A fluorescence biochip with a plasmon active surface. , 2007, , .		2
76	A high-content screening platform utilizing polarization anisotropy and FLIM microscopy. Proceedings of SPIE, 2008, , .	0.8	2
77	Using adaptive optics for deep in-vivo multiphoton FLIM. , 2011, , .		2
78	A 256 × 8 SPAD line sensor for time resolved fluorescence and raman sensing. , 2014, , .		2
79	Flow cytometry visualization and real-time processing with a CMOS SPAD array and high-speed hardware implementation algorithm. , 2020, , .		2
80	Time-resolved fluorescence measurements using stroboscopic excitation. , 2005, , .		1
81	Time-resolved fluorescence measurements using self-pulsing 650-nm laser diodes. , 2005, , .		1
82	Fluorescence Lifetime Imaging. , 2015, , 1-50.		1
83	Use of acceptor fluorescence for determining FRET lifetimes. , 2003, , .		1
84	Screening far red probes for use on optical biochip devices. , 2006, 6088, 122.		0
85	A Plasmon-controlled Fluorescence Biochip. , 2006, , .		0
86	Live cell tracking on an optical biochip platform. , 2007, , .		0
87	Interferometric Coherent Raman Micro-Spectroscopy with a Low Coherence Supercontinuum Source. , 2010, , .		0
88	High-speed FRET screening for optical proteomics in a microfluidic format. Proceedings of SPIE, 2011, , .	0.8	0
89	Broadband coherent Raman imaging for multiplexed detection. , 2011, , .		0
90	Single molecule FRET using the FRET pair DRONPA/PhotoActivable mCherry. , 2013, , .		0

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91	Semi-autonomous real-time programmable fluorescence lifetime segmentation with a digital micromirror device. Optics Express, 2018, 26, 31055.	3.4	0