

# Simon Ameer-Beg

## List of Publications by Year in descending order

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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	Osimertinib and anti-HER3 combination therapy engages immune dependent tumor toxicity via STING activation in trans. <i>Cell Death and Disease</i> , 2022, 13, 274.	6.3	11
2	Nance-Horan Syndrome-like 1 protein negatively regulates Scar/WAVE-Arp2/3 activity and inhibits lamellipodia stability and cell migration. <i>Nature Communications</i> , 2021, 12, 5687.	12.8	17
3	Quantitative real-time imaging of intracellular FRET biosensor dynamics using rapid multi-beam confocal FLIM. <i>Scientific Reports</i> , 2020, 10, 5146.	3.3	26
4	FMNL2 regulates dynamics of fascin in filopodia. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	30
5	Special issue on fluorescence lifetime imaging (FLIM): from fundamentals to applications. <i>Methods and Applications in Fluorescence</i> , 2020, 8, 040401.	2.3	8
6	Flow cytometry visualization and real-time processing with a CMOS SPAD array and high-speed hardware implementation algorithm. , 2020, , .		2
7	Adaptive optics for a time-resolved Förster resonance energy transfer (FRET) and fluorescence lifetime imaging microscopy (FLIM) in vivo. <i>Optics Letters</i> , 2020, 45, 2732.	3.3	7
8	TNFR1 membrane reorganization promotes distinct modes of TNF $\alpha$ signaling. <i>Science Signaling</i> , 2019, 12, .	3.6	18
9	Multifocal multiphoton volumetric imaging approach for high-speed time-resolved Förster resonance energy transfer imaging in vivo. <i>Optics Letters</i> , 2018, 43, 6057.	3.3	7
10	Semi-autonomous real-time programmable fluorescence lifetime segmentation with a digital micromirror device. <i>Optics Express</i> , 2018, 26, 31055.	3.4	0
11	ROR $\gamma$ <sup>3</sup> <sup>+</sup> Innate Lymphoid Cells Promote Lymph Node Metastasis of Breast Cancers. <i>Cancer Research</i> , 2017, 77, 1083-1096.	0.9	93
12	Detecting intratumoral heterogeneity of EGFR activity by liposome-based in vivo transfection of a fluorescent biosensor. <i>Oncogene</i> , 2017, 36, 3618-3628.	5.9	16
13	Fluorescence Lifetime Imaging. , 2017, , 353-405.		3
14	NDP52 activates nuclear myosin VI to enhance RNA polymerase II transcription. <i>Nature Communications</i> , 2017, 8, 1871.	12.8	49
15	Functional in vivo imaging using fluorescence lifetime light-sheet microscopy. <i>Optics Letters</i> , 2017, 42, 1269.	3.3	21
16	The application of local hypobaric pressure “A novel means to enhance macromolecule entry into the skin. <i>Journal of Controlled Release</i> , 2016, 226, 66-76.	9.9	8
17	New high-speed centre of mass method incorporating background subtraction for accurate determination of fluorescence lifetime. <i>Optics Express</i> , 2016, 24, 6899.	3.4	30
18	Real-time fluorescence lifetime actuation for cell sorting using a CMOS SPAD silicon photomultiplier. <i>Optics Letters</i> , 2016, 41, 673.	3.3	36

#	ARTICLE	IF	CITATIONS
19	PAK4 suppresses PDZ-RhoGEF activity to drive invadopodia maturation in melanoma cells. <i>Oncotarget</i> , 2016, 7, 70881-70897.	1.8	26
20	Time-domain microfluidic fluorescence lifetime flow cytometry for high-throughput Förster resonance energy transfer screening. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2015, 87, 104-118.	1.5	33
21	Effect of Phosphorylation on EGFR Dimer Stability Probed by Single-Molecule Dynamics and FRET/FLIM. <i>Biophysical Journal</i> , 2015, 108, 1013-1026.	0.5	45
22	A high speed multifocal multiphoton fluorescence lifetime imaging microscope for live-cell FRET imaging. <i>Biomedical Optics Express</i> , 2015, 6, 277.	2.9	101
23	Fluorescence lifetime imaging (FLIM): Basic concepts and some recent developments. <i>Medical Photonics</i> , 2015, 27, 3-40.	3.8	208
24	256 Å <sup>2</sup> SPAD line sensor for time resolved fluorescence spectroscopy. <i>Optics Express</i> , 2015, 23, 5653.	3.4	56
25	05 billion events per second time correlated single photon counting using CMOS SPAD arrays. <i>Optics Letters</i> , 2015, 40, 4305.	3.3	62
26	Fluorescence Lifetime Imaging (FLIM): Basic Concepts and Recent Applications. <i>Springer Series in Chemical Physics</i> , 2015, , 119-188.	0.2	9
27	Fluorescence Lifetime Imaging. , 2015, , 1-50.		1
28	The ErbB4 CYT2 variant protects EGFR from ligand-induced degradation to enhance cancer cell motility. <i>Science Signaling</i> , 2014, 7, ra78.	3.6	34
29	Time-resolved multifocal multiphoton microscope for high speed FRET imaging in vivo. <i>Optics Letters</i> , 2014, 39, 6013.	3.3	35
30	Development of a doubly weighted Gerchberg-Saxton algorithm for use in multibeam imaging applications. <i>Optics Letters</i> , 2014, 39, 2431.	3.3	37
31	A 256 Å <sup>2</sup> ; 8 SPAD line sensor for time resolved fluorescence and raman sensing. , 2014, , .		2
32	Imaging tumour heterogeneity of the consequences of a PKC $\delta$ substrate interaction in breast cancer patients. <i>Biochemical Society Transactions</i> , 2014, 42, 1498-1505.	3.4	10
33	Steady-State Acceptor Fluorescence Anisotropy Imaging under Evanescent Excitation for Visualisation of FRET at the Plasma Membrane. <i>PLoS ONE</i> , 2014, 9, e110695.	2.5	10
34	Fluorescence Lifetime Imaging. , 2014, , 1-50.		4
35	Development of a fast TCSPC FLIM-FRET imaging system. , 2013, , .		13
36	The Gray Institute $\hat{\circ}$ open $\hat{\circ}$ ™ high-content, fluorescence lifetime microscopes. <i>Journal of Microscopy</i> , 2013, 251, 154-167.	1.8	30

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37	Improving TCSPC data acquisition from CMOS SPAD arrays. , 2013, , .		5
38	Multifocal multiphoton microscopy with adaptive optical correction. , 2013, , .		9
39	Single molecule FRET using the FRET pair DRONPA/PhotoActivable mCherry. , 2013, , .		0
40	Super-Resolution Imaging Strategies for Cell Biologists Using a Spinning Disk Microscope. PLoS ONE, 2013, 8, e74604.	2.5	26
41	Time-Domain Fluorescence Lifetime Imaging Techniques Suitable for Solid-State Imaging Sensor Arrays. Sensors, 2012, 12, 5650-5669.	3.8	51
42	A Fluorescent Biosensor Reveals Conformational Changes in Human Immunoglobulin E Fc. Journal of Biological Chemistry, 2012, 287, 17459-17470.	3.4	49
43	A Multi-Functional Imaging Approach to High-Content Protein Interaction Screening. PLoS ONE, 2012, 7, e33231.	2.5	27
44	How Förster Resonance Energy Transfer Imaging Improves the Understanding of Protein Interaction Networks in Cancer Biology. ChemPhysChem, 2011, 12, 442-461.	2.1	46
45	High-speed FRET screening for optical proteomics in a microfluidic format. Proceedings of SPIE, 2011, , .	0.8	0
46	A Targeted siRNA Screen Identifies Regulators of Cdc42 Activity at the Natural Killer Cell Immunological Synapse. Science Signaling, 2011, 4, ra81.	3.6	46
47	Broadband coherent Raman imaging for multiplexed detection. , 2011, , .		0
48	Using adaptive optics for deep in-vivo multiphoton FLIM. , 2011, , .		2
49	Time-lapse FRET microscopy using fluorescence anisotropy. Journal of Microscopy, 2010, 237, 51-62.	1.8	35
50	Interferometric Coherent Raman Micro-Spectroscopy with a Low Coherence Supercontinuum Source. , 2010, , .		0
51	A Bayesian method for single molecule, fluorescence burst analysis. Biomedical Optics Express, 2010, 1, 1148.	2.9	34
52	Fluorescence lifetime endoscopy using TCSPC for the measurement of FRET in live cells. Optics Express, 2010, 18, 11148.	3.4	51
53	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
54	Essential Role of hIST1 in Cytokinesis. Molecular Biology of the Cell, 2009, 20, 1374-1387.	2.1	133

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55	Deep-tissue multiphoton fluorescence lifetime microscopy for intravital imaging of protein-protein interactions. , 2009, , .		6
56	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
57	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
58	Fluorescence lifetime and polarization-resolved imaging in cell biology. Current Opinion in Biotechnology, 2009, 20, 28-36.	6.6	191
59	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
60	A high-content screening platform utilizing polarization anisotropy and FLIM microscopy. Proceedings of SPIE, 2008, , .	0.8	2
61	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
62	Live cell tracking on an optical biochip platform. , 2007, , .		0
63	A fluorescence biochip with a plasmon active surface. , 2007, , .		2
64	Imaging proteins in vivo using fluorescence lifetime microscopy. Molecular BioSystems, 2007, 3, 381.	2.9	124
65	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
66	Technique for measurement of fluorescence lifetime by use of stroboscopic excitation and continuous-wave detection. Applied Optics, 2006, 45, 2115.	2.1	9
67	Screening far red probes for use on optical biochip devices. , 2006, 6088, 122.		0
68	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
69	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
70	A Plasmon-controlled Fluorescence Biochip. , 2006, , .		0
71	Time-resolved fluorescence measurements using stroboscopic excitation. , 2005, , .		1
72	Time-resolved fluorescence measurements using self-pulsing 650-nm laser diodes. , 2005, , .		1

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73	Dynamic imaging of protein-protein interactions by MP-FLIM. , 2005, , .		7
74	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
75	Intravital imaging of tumour vascular networks using multi-photon fluorescence microscopy. Advanced Drug Delivery Reviews, 2005, 57, 135-152.	13.7	143
76	Global and pixel kinetic data analysis for FRET detection by multi-photon time-domain FLIM. , 2005, 5700, 171.		41
77	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
78	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
79	Imaging molecular interactions by multiphoton FLIM. Biology of the Cell, 2004, 96, 231-236.	2.0	89
80	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
81	Imaging proteinâ€™protein interactions in cell motility using fluorescence resonance energy transfer (FRET). Biochemical Society Transactions, 2004, 32, 431-433.	3.4	64
82	Semi-automated software for the three-dimensional delineation of complex vascular networks. Journal of Microscopy, 2003, 211, 54-62.	1.8	19
83	Monitoring conformational changes of proteins in cells by fluorescence lifetime imaging microscopy. Biochemical Journal, 2003, 372, 33-40.	3.7	111
84	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
85	Imaging protein-protein interactions by multiphoton FLIM. , 2003, , .		15
86	Time-resolved multiphoton imaging of the interaction between the PKC and the NFÎ²B signalling pathways. , 2003, 5139, 216.		2
87	Use of acceptor fluorescence for determining FRET lifetimes. , 2003, , .		1
88	<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
89	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
90	Auxetic structures for variable permeability systems. AIChE Journal, 2001, 47, 2623-2626.	3.6	35

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91	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