Klaus Suhling

List of Publications by Year in Descending Order

120 papers	5,384 citations	39 h-index	71 g-index
132 ext. papers	6,089 ext. citations	5 avg, IF	5.51 L-index

#	Paper	IF	Citations
120	Determining vitreous viscosity using fluorescence recovery after photobleaching.. *PLoS ONE*, **2022**, 17, e0261925	3.7	1
119	Physical properties of the cytoplasm modulate the rates of microtubule polymerization and depolymerization.. *Developmental Cell*, **2022**, 57, 466-479.e6	10.2	4
118	Time-Resolved Fluorescence Anisotropy and Molecular Dynamics Analysis of a Novel GFP Homo-FRET Dimer. *Biophysical Journal*, **2021**, 120, 254-269	2.9	5
117	Time-Resolved Fluorescence Anisotropy of a Molecular Rotor Resolves Microscopic Viscosity Parameters in Complex Environments. *Small*, **2020**, 16, e1907139	11	10
116	Fast Timing Techniques in FLIM Applications. *Frontiers in Physics*, **2020**, 8,	3.9	10
115	Special issue on fluorescence lifetime imaging (FLIM): from fundamentals to applications. *Methods and Applications in Fluorescence*, **2020**, 8, 040401	3.1	3
114	Lightsheet fluorescence lifetime imaging microscopy with wide-field time-correlated single photon counting. *Journal of Biophotonics*, **2020**, 13, e201960099	3.1	12
113	Bottom-illuminated orbital shaker for microalgae cultivation. *HardwareX*, **2020**, 8, e00143	2.7	5
112	Multidimensional Fluorescence Microscopy for Simultaneous Functional and Structural Imaging. *Biophysical Journal*, **2019**, 116, 1787-1789	2.9	1
111	Targeted fluorescence lifetime probes reveal responsive organelle viscosity and membrane fluidity. *PLoS ONE*, **2019**, 14, e0211165	3.7	32
110	Singlet Triplet Transition Rate Enhancement inside Hyperbolic Metamaterials. *Laser and Photonics Reviews*, **2019**, 13, 1900101	8.3	8
109	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	1.2	15
108	Cellular imaging using emission-tuneable conjugated polymer nanoparticles.. *RSC Advances*, **2019**, 9, 37971-37976	3.7	0
107	PRODAN differentially influences its local environment. *Physical Chemistry Chemical Physics*, **2018**, 20, 16060-16066	3.6	11
106	Fster Resonance Energy Transfer inside Hyperbolic Metamaterials. *ACS Photonics*, **2018**, 5, 4594-4603	6.3	16
105	Nanoscale diffusion in the synaptic cleft and beyond measured with time-resolved fluorescence anisotropy imaging. *Scientific Reports*, **2017**, 7, 42022	4.9	43
104	Photon counting phosphorescence lifetime imaging with TimepixCam. *Review of Scientific Instruments*, **2017**, 88, 013104	1.7	20

103	Spontaneous emission in non-local materials. *Light: Science and Applications*, **2017**, 6, e16273	16.7	61
102	Wide-field TCSPC: methods and applications. *Measurement Science and Technology*, **2017**, 28, 012003	2	41
101	Fluorescence Lifetime Imaging **2017**, 353-405		3
100	Noise-Corrected Principal Component Analysis of fluorescence lifetime imaging data. *Journal of Biophotonics*, **2017**, 10, 1124-1133	3.1	18
99	Quantitative Live Cell FLIM Imaging in Three Dimensions. *Advances in Experimental Medicine and Biology*, **2017**, 1035, 31-48	3.6	11
98	TRPA1-FGFR2 binding event is a regulatory oncogenic driver modulated by miRNA-142-3p. *Nature Communications*, **2017**, 8, 947	17.4	26
97	In□vivo biodistribution studies and ex□vivo lymph node imaging using heavy metal-free quantum dots. *Biomaterials*, **2016**, 104, 182-91	15.6	42
96	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	1.2	7
95	Molecular rheology of neuronal membranes explored using a molecular rotor: Implications for receptor function. *Chemistry and Physics of Lipids*, **2016**, 196, 69-75	3.7	21
94	Photon Counting Imaging with an Electron-Bombarded Pixel Image Sensor. *Sensors*, **2016**, 16,	3.8	9
93	Hydrodynamic Radii of Ranibizumab, Aflibercept and Bevacizumab Measured by Time-Resolved Phosphorescence Anisotropy. *Pharmaceutical Research*, **2016**, 33, 2025-32	4.5	25
92	Picosecond wide-field time-correlated single photon counting fluorescence microscopy with a delay line anode detector. *Applied Physics Letters*, **2016**, 109, 071101	3.4	17
91	Determining a fluorophore\s transition dipole moment from fluorescence lifetime measurements in solvents of varying refractive index. *Methods and Applications in Fluorescence*, **2016**, 4, 045001	3.1	22
90	A wide-field TCSPC FLIM system based on an MCP PMT with a delay-line anode. *Review of Scientific Instruments*, **2016**, 87, 093710	1.7	17
89	Wide-field TCSPC-based fluorescence lifetime imaging (FLIM) microscopy **2016**,		3
88	Twist and Probe-Fluorescent Molecular Rotors Image Escherichia coli Cell Membrane Viscosity. *Biophysical Journal*, **2016**, 111, 1337-1338	2.9	8
87	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	1.2	5
86	Sub-□ 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	2.9	21

85	Genetically encoded sensors of protein hydrodynamics and molecular proximity. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E2569-74	11.5	8
84	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	1.2	12
83	Fluorescence lifetime imaging (FLIM): Basic concepts and some recent developments **2015**, 27, 3-40		131
82	Single-molecule localization software applied to photon counting imaging. *Applied Optics*, **2015**, 54, 5074-82	1.8	5
81	The interactions between a small molecule and G-quadruplexes are visualized by fluorescence lifetime imaging microscopy. *Nature Communications*, **2015**, 6, 8178	17.4	144
80	Spectrally resolved fluorescence lifetime imaging of Nile red for measurements of intracellular polarity. *Journal of Biomedical Optics*, **2015**, 20, 096002	3.5	17
79	Simultaneous FRAP, FLIM and FAIM for measurements of protein mobility and interaction in living cells. *Biomedical Optics Express*, **2015**, 6, 3842-54	3.5	13
78	Microsecond wide-field TCSPC microscopy based on an ultra-fast CMOS camera **2015**,		2
77	One-pot aqueous synthesis of highly strained CdTe/CdS/ZnS nanocrystals and their interactions with cells. *RSC Advances*, **2015**, 5, 7485-7494	3.7	17
76	A high speed multifocal multiphoton fluorescence lifetime imaging microscope for live-cell FRET imaging. *Biomedical Optics Express*, **2015**, 6, 277-96	3.5	85
75	Fluorescence Lifetime Imaging (FLIM): Basic Concepts and Recent Applications. *Springer Series in Chemical Physics*, **2015**, 119-188	0.3	8
74	Fluorescence Lifetime Imaging **2015**, 1-50		1
73	Fluorescence lifetime imaging and FRET-induced intracellular redistribution of Tat-conjugated quantum dot nanoparticles through interaction with a phthalocyanine photosensitiser. *Small*, **2014**, 10, 782-92	11	51
72	Gd-containing conjugated polymer nanoparticles: bimodal nanoparticles for fluorescence and MRI imaging. *Nanoscale*, **2014**, 6, 8376-86	7.7	40
71	Fixed pattern noise in localization microscopy. *ChemPhysChem*, **2014**, 15, 677-86	3.2	4
70	Photophysics of fluorescence **2014**, 23-46		
69	Photon counting imaging with an electron-bombarded CCD: towards a parallel-processing photoelectronic time-to-amplitude converter. *Review of Scientific Instruments*, **2014**, 85, 123102	1.7	13
68	Time-resolved multifocal multiphoton microscope for high speed FRET imaging in vivo. *Optics Letters*, **2014**, 39, 6013-6	3	33

67	Wide-field time-correlated single-photon counting (TCSPC) lifetime microscopy with microsecond time resolution. *Optics Letters*, **2014**, 39, 5602-5	3	45
66	Time-resolved fluorescence anisotropy imaging. *Methods in Molecular Biology*, **2014**, 1076, 503-19	1.4	18
65	Fluorescence Lifetime Imaging **2014**, 1-50		1
64	Monitoring Nanoscale Mobility of Small Molecules in Organized Brain Tissue with Time-Resolved Fluorescence Anisotropy Imaging. *Neuromethods*, **2014**, 125-143	0.4	2
63	Biosynthesis of luminescent quantum dots in an earthworm. *Nature Nanotechnology*, **2013**, 8, 57-60	28.7	128
62	Grb2 controls phosphorylation of FGFR2 by inhibiting receptor kinase and Shp2 phosphatase activity. *Journal of Cell Biology*, **2013**, 200, 493-504	7.3	49
61	Grb2 controls phosphorylation of FGFR2 by inhibiting receptor kinase and Shp2 phosphatase activity. *Journal of General Physiology*, **2013**, 141, i8-i8	3.4	
60	Influence of molecular shape, conformability, net surface charge, and tissue interaction on transscleral macromolecular diffusion. *Experimental Eye Research*, **2012**, 102, 85-92	3.7	12
59	Wide-field single photon counting imaging with an ultrafast camera and an image intensifier. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2012**, 695, 306-308	1.2	
58	Homodimerization of amyloid precursor protein at the plasma membrane: a homoFRET study by time-resolved fluorescence anisotropy imaging. *PLoS ONE*, **2012**, 7, e44434	3.7	32
57	A fluorescent biosensor reveals conformational changes in human immunoglobulin E Fc: implications for mechanisms of receptor binding, inhibition, and allergen recognition. *Journal of Biological Chemistry*, **2012**, 287, 17459-17470	5.4	41
56	Fluorescence lifetime imaging of molecular rotors in living cells. *Journal of Visualized Experiments*, **2012**,	1.6	10
55	Mapping intracellular viscosity by advanced fluorescence imaging of molecular rotors in living cells **2011**,		2
54	Fluorescence anisotropy of molecular rotors. *ChemPhysChem*, **2011**, 12, 662-72	3.2	85
53	Simultaneous measurements of fluorescence lifetimes, anisotropy, and FRAP recovery curves **2011**,		7
52	A targeted siRNA screen identifies regulators of Cdc42 activity at the natural killer cell immunological synapse. *Science Signaling*, **2011**, 4, ra81	8.8	40
51	Photon arrival timing with sub-camera exposure time resolution in wide-field time-resolved photon counting imaging. *Optics Express*, **2010**, 18, 24888-901	3.3	15
50	Rapid wide-field photon counting imaging with microsecond time resolution. *Optics Express*, **2010**, 18, 25292-8	3.3	24

49	Phospholipid encapsulated semiconducting polymer nanoparticles: their use in cell imaging and protein attachment. *Journal of the American Chemical Society*, **2010**, 132, 3989-96	16.4	192
48	Direct binding of Grb2 SH3 domain to FGFR2 regulates SHP2 function. *Cellular Signalling*, **2010**, 22, 23-33	4.9	24
47	White Electroluminescence by Supramolecular Control of Energy Transfer in Blends of Organic-Soluble Encapsulated Polyfluorenes. *Advanced Functional Materials*, **2010**, 20, 272-280	15.6	50
46	High-Resolution Scanning Near-Field Optical Lithography of Conjugated Polymers. *Advanced Functional Materials*, **2010**, 20, 2842-2847	15.6	33
45	Luminescence-lifetime mapping in diamond. *Journal of Physics Condensed Matter*, **2009**, 21, 364210	1.8	23
44	Chapter 4 Multidimensional fluorescence imaging. *Laboratory Techniques in Biochemistry and Molecular Biology / Edited By T S Work [and] E Work*, **2009**, 33, 133-169		3
43	Imaging intracellular viscosity of a single cell during photoinduced cell death. *Nature Chemistry*, **2009**, 1, 69-73	17.6	448
42	Fluorescence lifetime and polarization-resolved imaging in cell biology. *Current Opinion in Biotechnology*, **2009**, 20, 28-36	11.4	161
41	Monitoring sol-to-gel transitions via fluorescence lifetime determination using viscosity sensitive fluorescent probes. *Journal of Physical Chemistry B*, **2009**, 113, 12067-74	3.4	57
40	Membrane-Bound Molecular Rotors Measure Viscosity in Live Cells via Fluorescence Lifetime Imaging *Journal of Physical Chemistry C*, **2009**, 113, 11634-11642	3.8	178
39	Photophysical properties and intracellular imaging of water-soluble porphyrin dimers for two-photon excited photodynamic therapy. *Organic and Biomolecular Chemistry*, **2009**, 7, 889-96	3.9	123
38	Luminescence enhancement of a europium containing polyoxometalate on interaction with bovine serum albumin. *Photochemical and Photobiological Sciences*, **2008**, 7, 734-7	4.2	36
37	Wide-field time-correlated single photon counting imaging for luminescence microscopy **2008**,		1
36	Effect of refractive index on the fluorescence lifetime of green fluorescent protein. *Journal of Biomedical Optics*, **2008**, 13, 031218	3.5	59
35	Extracellular point mutations in FGFR2 elicit unexpected changes in intracellular signalling. *Biochemical Journal*, **2008**, 413, 37-49	3.8	45
34	Indirect recruitment of the signalling adaptor Shc to the fibroblast growth factor receptor 2 (FGFR2). *Biochemical Journal*, **2008**, 416, 189-99	3.8	13
33	Multidimensional multiphoton fluorescence lifetime imaging of cells **2008**,		2
32	A high-content screening platform utilizing polarization anisotropy and FLIM microscopy **2008**,		1

31	Molecular rotor measures viscosity of live cells via fluorescence lifetime imaging. *Journal of the American Chemical Society*, **2008**, 130, 6672-3	16.4	541
30	Molecular diffusion within sol-gel derived matrices viewed via fluorescence recovery after photobleaching. *Photochemical and Photobiological Sciences*, **2007**, 6, 825-8	4.2	14
29	Optical spectroscopy following the incorporation of a rare-earth containing (Eu) polyoxometalate into a sol-gel derived media. *Physical Chemistry Chemical Physics*, **2007**, 9, 6012-5	3.6	11
28	Diffusion in a sol-gel-derived medium with a view toward biosensor applications. *Journal of Physical Chemistry B*, **2007**, 111, 3558-62	3.4	30
27	Fluorescence probe techniques to monitor protein adsorption-induced conformation changes on biodegradable polymers. *Journal of Colloid and Interface Science*, **2007**, 312, 193-200	9.3	39
26	Fluorescence characterisation of multiply-loaded anti-HER2 single chain Fv-photosensitizer conjugates suitable for photodynamic therapy. *Photochemical and Photobiological Sciences*, **2007**, 6, 933-9	4.2	42
25	Time-resolved fluorescence microscopy **2007**, 6771, 52		1
24	Imaging proteins in vivo using fluorescence lifetime microscopy. *Molecular BioSystems*, **2007**, 3, 381-91		108
23	Mapping the refractive index sensing range of the GFP fluorescence decay with FLIM **2006**, 6098, 37		2
22	Refractive index sensing using Fluorescence Lifetime Imaging (FLIM). *Journal of Physics: Conference Series*, **2006**, 45, 223-230	0.3	9
21	Time-resolved fluorescence microscopy. *Photochemical and Photobiological Sciences*, **2005**, 4, 13-22	4.2	425
20	Time-domain fluorescence lifetime imaging applied to biological tissue. *Photochemical and Photobiological Sciences*, **2004**, 3, 795-801	4.2	152
19	Time-resolved fluorescence anisotropy imaging applied to live cells. *Optics Letters*, **2004**, 29, 584-6	3	113
18	Novel peripherally functionalized seco-porphyrazines: synthesis, characterization and spectroscopic evaluation. *Tetrahedron*, **2003**, 59, 9083-9090	2.4	39
17	Synthesis and reactions of aminoporphyrazines with annulated five- and seven-membered rings. *Journal of Organic Chemistry*, **2003**, 68, 1665-70	4.2	63
16	Wide-field time-resolved fluorescence anisotropy imaging (TR-FAIM): Imaging the rotational mobility of a fluorophore. *Review of Scientific Instruments*, **2003**, 74, 182-192	1.7	61
15	Imaging immune surveillance by T cells and NK cells. *Immunological Reviews*, **2002**, 189, 179-92	11.3	23
14	The Influence of Solvent Viscosity on the Fluorescence Decay and Time-Resolved Anisotropy of Green Fluorescent Protein. *Journal of Fluorescence*, **2002**, 12, 91-95	2.4	49

13	Probing Si and Ti Based Sol-Gel Matrices by Fluorescence Techniques. *Journal of Fluorescence*, **2002**, 12, 397-417	2.4	18
12	Minimization of fixed pattern noise in photon event counting imaging. *Review of Scientific Instruments*, **2002**, 73, 2917-2922	1.7	16
11	Peripherally metalated secoporphyrazines: a new generation of photoactive pigments. *Inorganic Chemistry*, **2002**, 41, 2182-7	5.1	40
10	Effects of axial ligands on the photophysical properties of silicon octaphenoxyphthalocyanine. *Journal of Porphyrins and Phthalocyanines*, **2002**, 06, 373-376	1.8	144
9	Imaging the environment of green fluorescent protein. *Biophysical Journal*, **2002**, 83, 3589-95	2.9	204
8	Influence of the refractive index on EGFP fluorescence lifetimes in mixtures of water and glycerol **2001**, 4259, 92		7
7	A position-sensitive photon event counting detector applied to fluorescence imaging of dyes in sol-gel matrices. *Measurement Science and Technology*, **2001**, 12, 131-141	2	20
6	Comparison of the fluorescence behaviour of rhodamine 6G in bulk and thin film tetraethylorthosilicate derived sol□gel matrices. *Journal of Photochemistry and Photobiology A: Chemistry*, **1999**, 129, 71-80	4.7	40
5	Optimisation of centroiding algorithms for photon event counting imaging. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1999**, 437, 393-418	1.2	27
4	Multiplexed single-photon counting. I. A time-correlated fluorescence lifetime camera. *Review of Scientific Instruments*, **1996**, 67, 2228-2237	1.7	36
3	Array fluorometry: the theory of the statistical multiplexing of single-photon timing **1990**, 1204, 26		5
2	Bottom-Illuminated Orbital Shaker for Microalgae Cultivation		2
1	Physical properties of the cytoplasm modulate the rates of microtubule polymerization and depolymerization		5