Klaus Suhling

List of Publications by Year
in descending order

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129	6,661	71102	64796
papers	citations	41 h-index	79 g-index

132	132	132	8080
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Determining vitreous viscosity using fluorescence recovery after photobleaching. PLoS ONE, 2022, 17, e0261925.	2.5	4
2	Physical properties of the cytoplasm modulate the rates of microtubule polymerization and depolymerization. Developmental Cell, 2022, 57, 466-479.e6.	7.0	50
3	Time-Resolved Fluorescence Anisotropy and Molecular Dynamics Analysis of a Novel GFP Homo-FRET Dimer. Biophysical Journal, 2021, 120, 254-269.	0.5	21
4	Correction of time-resolved SPAD array measurements for accurate single-photon time-resolved biological imaging. , 2021, , .		4
5	Lightsheet fluorescence lifetime imaging microscopy with wideâ€field timeâ€correlated single photon counting. Journal of Biophotonics, 2020, 13, e201960099.	2.3	26
6	Bottom-illuminated orbital shaker for microalgae cultivation. HardwareX, 2020, 8, e00143.	2.2	12
7	Timeâ€Resolved Fluorescence Anisotropy of a Molecular Rotor Resolves Microscopic Viscosity Parameters in Complex Environments. Small, 2020, 16, e1907139.	10.0	24
8	Fast Timing Techniques in FLIM Applications. Frontiers in Physics, 2020, 8, .	2.1	25
9	Special issue on fluorescence lifetime imaging (FLIM): from fundamentals to applications. Methods and Applications in Fluorescence, 2020, 8, 040401.	2.3	8
10	Singletâ€“Triplet Transition Rate Enhancement inside Hyperbolic Metamaterials. Laser and Photonics Reviews, 2019, 13, 1900101.	8.7	10
11	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.	1.6	26
12	Multidimensional Fluorescence Microscopy forÂSimultaneous Functional and Structural Imaging. Biophysical Journal, 2019, 116, 1787-1789.	0.5	1
13	Targeted fluorescence lifetime probes reveal responsive organelle viscosity and membrane fluidity. PLoS ONE, 2019, 14, e0211165.	2.5	58
14	Cellular imaging using emission-tuneable conjugated polymer nanoparticles. RSC Advances, 2019, 9, 37971-37976.	3.6	3
15	Fluorescence Recovery After Photobleaching (FRAP) with simultaneous Fluorescence Lifetime and time-resolved Fluorescence Anisotropy Imaging (FLIM and tr-FAIM). , 2019, , .		0
16	Fluorescence lifetime imaging for viscosity and diffusion measurements. , 2019, , .		2
17	Imaging mitochondrial matrix viscosity in live cells via fluorescence lifetime imaging (FLIM) of fluorescent molecular rotors. , 2019, , .		0
18	FÃ¶rster Resonance Energy Transfer inside Hyperbolic Metamaterials. ACS Photonics, 2018, 5, 4594-4603.	6.6	24

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19	PRODAN differentially influences its local environment. Physical Chemistry Chemical Physics, 2018, 20, 16060-16066.	2.8	13
20	Nanoscale diffusion in the synaptic cleft and beyond measured with time-resolved fluorescence anisotropy imaging. Scientific Reports, 2017, 7, 42022.	3.3	65
21	Photon counting phosphorescence lifetime imaging with TimepixCam. Review of Scientific Instruments, 2017, 88, 013104.	1.3	23
22	Spontaneous emission in non-local materials. Light: Science and Applications, 2017, 6, e16273-e16273.	16.6	75
23	Wide-field TCSPC: methods and applications. Measurement Science and Technology, 2017, 28, 012003.	2.6	60
24	Fluorescence Lifetime Imaging. , 2017, , 353-405.		3
25	Noiseâ€Corrected Principal Component Analysis of fluorescence lifetime imaging data. Journal of Biophotonics, 2017, 10, 1124-1133.	2.3	29
26	Quantitative Live Cell FLIM Imaging in Three Dimensions. Advances in Experimental Medicine and Biology, 2017, 1035, 31-48.	1.6	17
27	TRPA1â€“FGFR2 binding event is a regulatory oncogenic driver modulated by miRNA-142-3p. Nature Communications, 2017, 8, 947.	12.8	56
28	Photon Counting Imaging with an Electron-Bombarded Pixel Image Sensor. Sensors, 2016, 16, 617.	3.8	13
29	Hydrodynamic Radii of Ranibizumab, Aflibercept and Bevacizumab Measured by Time-Resolved Phosphorescence Anisotropy. Pharmaceutical Research, 2016, 33, 2025-2032.	3.5	32
30	Picosecond wide-field time-correlated single photon counting fluorescence microscopy with a delay line anode detector. Applied Physics Letters, 2016, 109, .	3.3	21
31	Determining a fluorophoreâ€™s transition dipole moment from fluorescence lifetime measurements in solvents of varying refractive index. Methods and Applications in Fluorescence, 2016, 4, 045001.	2.3	32
32	A wide-field TCSPC FLIM system based on an MCP PMT with a delay-line anode. Review of Scientific Instruments, 2016, 87, 093710.	1.3	23
33	Wide-field TCSPC-based fluorescence lifetime imaging (FLIM) microscopy. , 2016, , .		4
34	Twist and Probeâ€”Fluorescent Molecular Rotors Image Escherichia coli Cell Membrane Viscosity. Biophysical Journal, 2016, 111, 1337-1338.	0.5	10
35	InÂvivo biodistribution studies and exÂvivo lymph node imaging using heavy metal-free quantum dots. Biomaterials, 2016, 104, 182-191.	11.4	52
36	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.	1.6	8

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37	Molecular rheology of neuronal membranes explored using a molecular rotor: Implications for receptor function. Chemistry and Physics of Lipids, 2016, 196, 69-75.	3.2	25
38	Simultaneous FRAP, FLIM and FAIM for measurements of protein mobility and interaction in living cells. Biomedical Optics Express, 2015, 6, 3842.	2.9	15
39	Microsecond wide-field TCSPC microscopy based on an ultra-fast CMOS camera. Proceedings of SPIE, 2015, , .	0.8	2
40	Investigating cell membrane structure and dynamics with TCSPC-FLIM. , 2015, , .		0
41	One-pot aqueous synthesis of highly strained CdTe/CdS/ZnS nanocrystals and their interactions with cells. RSC Advances, 2015, 5, 7485-7494.	3.6	18
42	A high speed multifocal multiphoton fluorescence lifetime imaging microscope for live-cell FRET imaging. Biomedical Optics Express, 2015, 6, 277.	2.9	101
43	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.	1.6	6
44	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.	2.9	24
45	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.	7.1	11
46	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.	1.6	13
47	Fluorescence lifetime imaging (FLIM): Basic concepts and some recent developments. Medical Photonics, 2015, 27, 3-40.	3.8	208
48	Single-molecule localization software applied to photon counting imaging. Applied Optics, 2015, 54, 5074.	2.1	6
49	The interactions between a small molecule and G-quadruplexes are visualized by fluorescence lifetime imaging microscopy. Nature Communications, 2015, 6, 8178.	12.8	192
50	Spectrally resolved fluorescence lifetime imaging of Nile red for measurements of intracellular polarity. Journal of Biomedical Optics, 2015, 20, 096002.	2.6	36
51	Fluorescence Lifetime Imaging (FLIM): Basic Concepts and Recent Applications. Springer Series in Chemical Physics, 2015, , 119-188.	0.2	9
52	Fluorescence Lifetime Imaging. , 2015, , 1-50.		1
53	Photon counting imaging with an electron-bombarded CCD: Towards a parallel-processing photoelectronic time-to-amplitude converter. Review of Scientific Instruments, 2014, 85, 123102.	1.3	15
54	Time-resolved multifocal multiphoton microscope for high speed FRET imaging in vivo. Optics Letters, 2014, 39, 6013.	3.3	35

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55	Wide-field time-correlated single-photon counting (TCSPC) lifetime microscopy with microsecond time resolution. Optics Letters, 2014, 39, 5602.	3.3	50
56	Fluorescence Lifetime Imaging and FRETâ€Induced Intracellular Redistribution of Tatâ€Conjugated Quantum Dot Nanoparticles through Interaction with a Phthalocyanine Photosensitiser. Small, 2014, 10, 782-792.	10.0	58
57	Gd-containing conjugated polymer nanoparticles: bimodal nanoparticles for fluorescence and MRI imaging. Nanoscale, 2014, 6, 8376-8386.	5.6	48
58	Fixed Pattern Noise in Localization Microscopy. ChemPhysChem, 2014, 15, 677-686.	2.1	4
59	Photophysics of fluorescence. , 2014, , 23-46.		0
60	Time-Resolved Fluorescence Anisotropy Imaging. Methods in Molecular Biology, 2014, 1076, 503-519.	0.9	20
61	Fluorescence Lifetime Imaging. , 2014, , 1-50.		4
62	Monitoring Nanoscale Mobility of Small Molecules in Organized Brain Tissue with Time-Resolved Fluorescence Anisotropy Imaging. Neuromethods, 2014, , 125-143.	0.3	2
63	Biosynthesis of luminescent quantum dots in an earthworm. Nature Nanotechnology, 2013, 8, 57-60.	31.5	157
64	Grb2 controls phosphorylation of FGFR2 by inhibiting receptor kinase and Shp2 phosphatase activity. Journal of Cell Biology, 2013, 200, 493-504.	5.2	64
65	Grb2 controls phosphorylation of FGFR2 by inhibiting receptor kinase and Shp2 phosphatase activity. Journal of General Physiology, 2013, 141, i8-i8.	1.9	0
66	Homodimerization of Amyloid Precursor Protein at the Plasma Membrane: A homoFRET Study by Time-Resolved Fluorescence Anisotropy Imaging. PLoS ONE, 2012, 7, e44434.	2.5	42
67	A Fluorescent Biosensor Reveals Conformational Changes in Human Immunoglobulin E Fc. Journal of Biological Chemistry, 2012, 287, 17459-17470.	3.4	49
68	Fluorescence Lifetime Imaging of Molecular Rotors in Living Cells. Journal of Visualized Experiments, 2012, , .	0.3	10
69	Influence of molecular shape, conformability, net surface charge, and tissue interaction on transscleral macromolecular diffusion. Experimental Eye Research, 2012, 102, 85-92.	2.6	18
70	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.	1.6	1
71	Mapping intracellular viscosity by advanced fluorescence imaging of molecular rotors in living cells. , 2011, , .		2
72	Fluorescence Anisotropy of Molecular Rotors. ChemPhysChem, 2011, 12, 662-672.	2.1	107

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73	Advances in time-resolved fluorescence microscopy: Simultaneous FRAP, FLIM and tr-FAIM to image rotational and translation diffusion in living cells. , 2011, , .		0
74	Simultaneous measurements of fluorescence lifetimes, anisotropy, and FRAP recovery curves. , 2011, , .		7
75	A Targeted siRNA Screen Identifies Regulators of Cdc42 Activity at the Natural Killer Cell Immunological Synapse. Science Signaling, 2011, 4, ra81.	3.6	46
76	Direct binding of Grb2 SH3 domain to FGFR2 regulates SHP2 function. Cellular Signalling, 2010, 22, 23-33.	3.6	34
77	White Electroluminescence by Supramolecular Control of Energy Transfer in Blends of Organicâ€Soluble Encapsulated Polyfluorenes. Advanced Functional Materials, 2010, 20, 272-280.	14.9	60
78	Highâ€Resolution Scanning Nearâ€Field Optical Lithography of Conjugated Polymers. Advanced Functional Materials, 2010, 20, 2842-2847.	14.9	38
79	Conjugated Polymers: High-Resolution Scanning Near-Field Optical Lithography of Conjugated Polymers (Adv. Funct. Mater. 17/2010). Advanced Functional Materials, 2010, 20, n/a-n/a.	14.9	0
80	Photon arrival timing with sub-camera exposure time resolution in wide-field time-resolved photon counting imaging. Optics Express, 2010, 18, 24888.	3.4	15
81	Rapid wide-field photon counting imaging with microsecond time resolution. Optics Express, 2010, 18, 25292.	3.4	26
82	Phospholipid Encapsulated Semiconducting Polymer Nanoparticles: Their Use in Cell Imaging and Protein Attachment. Journal of the American Chemical Society, 2010, 132, 3989-3996.	13.7	206
83	Luminescence-lifetime mapping in diamond. Journal of Physics Condensed Matter, 2009, 21, 364210.	1.8	25
84	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
85	Imaging intracellular viscosity of a single cell during photoinduced cell death. Nature Chemistry, 2009, 1, 69-73.	13.6	544
86	Fluorescence lifetime and polarization-resolved imaging in cell biology. Current Opinion in Biotechnology, 2009, 20, 28-36.	6.6	191
87	Monitoring Sol-to-Gel Transitions via Fluorescence Lifetime Determination Using Viscosity Sensitive Fluorescent Probes. Journal of Physical Chemistry B, 2009, 113, 12067-12074.	2.6	68
88	Membrane-Bound Molecular Rotors Measure Viscosity in Live Cells via Fluorescence Lifetime Imaging. Journal of Physical Chemistry C, 2009, 113, 11634-11642.	3.1	213
89	Photophysical properties and intracellular imaging of water-soluble porphyrin dimers for two-photon excited photodynamic therapy. Organic and Biomolecular Chemistry, 2009, 7, 889.	2.8	130
90	Molecular Rotor Measures Viscosity of Live Cells via Fluorescence Lifetime Imaging. Journal of the American Chemical Society, 2008, 130, 6672-6673.	13.7	662

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91	Luminescence enhancement of a europium containing polyoxometalate on interaction with bovine serum albumin. Photochemical and Photobiological Sciences, 2008, 7, 734.	2.9	37
92	Wide-field time-correlated single photon counting imaging for luminescence microscopy. , 2008, , .		1
93	Effect of refractive index on the fluorescence lifetime of green fluorescent protein. Journal of Biomedical Optics, 2008, 13, 031218.	2.6	81
94	Extracellular point mutations in FGFR2 elicit unexpected changes in intracellular signalling. Biochemical Journal, 2008, 413, 37-49.	3.7	52
95	Indirect recruitment of the signalling adaptor Shc to the fibroblast growth factor receptor 2 (FGFR2). Biochemical Journal, 2008, 416, 189-199.	3.7	18
96	Multidimensional multiphoton fluorescence lifetime imaging of cells. , 2008, , .		2
97	A high-content screening platform utilizing polarization anisotropy and FLIM microscopy. Proceedings of SPIE, 2008, , .	0.8	2
98	Refractive index sensing using fluorescence lifetime imaging (FLIM). , 2007, , .		0
99	Time-resolved fluorescence microscopy. Proceedings of SPIE, 2007, 6771, 52.	0.8	1
100	Wide-field photon counting imaging for fluorescence microscopy. , 2007, , .		0
101	Imaging proteins in vivo using fluorescence lifetime microscopy. Molecular BioSystems, 2007, 3, 381.	2.9	124
102	Molecular diffusion within solâ€“gel derived matrices viewed via fluorescence recovery after photobleaching. Photochemical and Photobiological Sciences, 2007, 6, 825.	2.9	15
103	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.	2.8	11
104	Diffusion in a Solâ^'Gel-Derived Medium with a View toward Biosensor Applications. Journal of Physical Chemistry B, 2007, 111, 3558-3562.	2.6	33
105	Fluorescence probe techniques to monitor protein adsorption-induced conformation changes on biodegradable polymers. Journal of Colloid and Interface Science, 2007, 312, 193-200.	9.4	42
106	Fluorescence characterisation of multiply-loaded anti-HER2 single chain Fv-photosesitizer conjugates suitable for photodynamic therapy. Photochemical and Photobiological Sciences, 2007, 6, 933-939.	2.9	46
107	Mapping the refractive index sensing range of the GFP fluorescence decay with FLIM. , 2006, 6098, 37.		2
108	Refractive index sensing using Fluorescence Lifetime Imaging (FLIM). Journal of Physics: Conference Series, 2006, 45, 223-230.	0.4	14

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109	Time-resolved fluorescence microscopy. Photochemical and Photobiological Sciences, 2005, 4, 13-22.	2.9	497
110	Time-domain fluorescence lifetime imaging applied to biological tissue. Photochemical and Photobiological Sciences, 2004, 3, 795.	2.9	175
111	Time-resolved fluorescence anisotropy imaging applied to live cells. Optics Letters, 2004, 29, 584.	3.3	133
112	Novel peripherally functionalized seco-porphyrazines: synthesis, characterization and spectroscopic evaluation. Tetrahedron, 2003, 59, 9083-9090.	1.9	42
113	Synthesis and Reactions of Aminoporphyrazines with Annulated Five- and Seven-Membered Rings. Journal of Organic Chemistry, 2003, 68, 1665-1670.	3.2	69
114	Wide-field time-resolved fluorescence anisotropy imaging (TR-FAIM): Imaging the rotational mobility of a fluorophore. Review of Scientific Instruments, 2003, 74, 182-192.	1.3	78
115	Minimization of fixed pattern noise in photon event counting imaging. Review of Scientific Instruments, 2002, 73, 2917-2922.	1.3	21
116	Peripherally Metalated Secoporphyrazines:â€‰ A New Generation of Photoactive Pigments. Inorganic Chemistry, 2002, 41, 2182-2187.	4.0	42
117	Effects of axial ligands on the photophysical properties of silicon octaphenoxyphthalocyanine. Journal of Porphyrins and Phthalocyanines, 2002, 06, 373-376.	0.8	150
118	Imaging the Environment of Green Fluorescent Protein. Biophysical Journal, 2002, 83, 3589-3595.	0.5	245
119	Imaging immune surveillance by T cells and NK cells. Immunological Reviews, 2002, 189, 179-192.	6.0	24
120	Title is missing!. Journal of Fluorescence, 2002, 12, 91-95.	2.5	55
121	Probing Si and Ti Based Sol-Gel Matrices by Fluorescence Techniques. Journal of Fluorescence, 2002, 12, 397-417.	2.5	18
122	<title>Influence of the refractive index on EGFP fluorescence lifetimes in mixtures of water and glycerol</title>. , 2001, 4259, 92.		12
123	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.	2.6	22
124	Comparison of the fluorescence behaviour of rhodamine 6G in bulk and thin film tetraethylorthosilicate derived solâ€“gel matrices. Journal of Photochemistry and Photobiology A: Chemistry, 1999, 129, 71-80.	3.9	51
125	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.	1.6	32
126	<title>Fluorescence-lifetime imaging using a novel photon sensing module</title>. , 1997, , .		0

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127	Multiplexed singleâ€photon counting. I. A timeâ€correlated fluorescence lifetime camera. Review of Scientific Instruments, 1996, 67, 2228-2237.	1.3	41
128	Array fluorometry: the theory of the statistical multiplexing of single-photon timing. , 1990, 1204, 26.		5
129	Editorial: Modern Tools for Time-Resolved Luminescence Biosensing and Imaging. Frontiers in Physics, 0, 9, .	2.1	0