

Klaus Suhling

List of Publications by Year in descending order

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129
papers

6,661
citations

71102

41
h-index

64796

79
g-index

132
all docs

132
docs citations

132
times ranked

8080
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Rotor Measures Viscosity of Live Cells via Fluorescence Lifetime Imaging. <i>Journal of the American Chemical Society</i> , 2008, 130, 6672-6673.	13.7	662
2	Imaging intracellular viscosity of a single cell during photoinduced cell death. <i>Nature Chemistry</i> , 2009, 1, 69-73.	13.6	544
3	Time-resolved fluorescence microscopy. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 13-22.	2.9	497
4	Imaging the Environment of Green Fluorescent Protein. <i>Biophysical Journal</i> , 2002, 83, 3589-3595.	0.5	245
5	Membrane-Bound Molecular Rotors Measure Viscosity in Live Cells via Fluorescence Lifetime Imaging. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11634-11642.	3.1	213
6	Fluorescence lifetime imaging (FLIM): Basic concepts and some recent developments. <i>Medical Photonics</i> , 2015, 27, 3-40.	3.8	208
7	Phospholipid Encapsulated Semiconducting Polymer Nanoparticles: Their Use in Cell Imaging and Protein Attachment. <i>Journal of the American Chemical Society</i> , 2010, 132, 3989-3996.	13.7	206
8	The interactions between a small molecule and G-quadruplexes are visualized by fluorescence lifetime imaging microscopy. <i>Nature Communications</i> , 2015, 6, 8178.	12.8	192
9	Fluorescence lifetime and polarization-resolved imaging in cell biology. <i>Current Opinion in Biotechnology</i> , 2009, 20, 28-36.	6.6	191
10	Time-domain fluorescence lifetime imaging applied to biological tissue. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 795.	2.9	175
11	Biosynthesis of luminescent quantum dots in an earthworm. <i>Nature Nanotechnology</i> , 2013, 8, 57-60.	31.5	157
12	Effects of axial ligands on the photophysical properties of silicon octaphenoxypthalocyanine. <i>Journal of Porphyrins and Phthalocyanines</i> , 2002, 06, 373-376.	0.8	150
13	Time-resolved fluorescence anisotropy imaging applied to live cells. <i>Optics Letters</i> , 2004, 29, 584.	3.3	133
14	Photophysical properties and intracellular imaging of water-soluble porphyrin dimers for two-photon excited photodynamic therapy. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 889.	2.8	130
15	Imaging proteins in vivo using fluorescence lifetime microscopy. <i>Molecular BioSystems</i> , 2007, 3, 381.	2.9	124
16	Fluorescence Anisotropy of Molecular Rotors. <i>ChemPhysChem</i> , 2011, 12, 662-672.	2.1	107
17	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
18	Effect of refractive index on the fluorescence lifetime of green fluorescent protein. <i>Journal of Biomedical Optics</i> , 2008, 13, 031218.	2.6	81

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19	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
20	Spontaneous emission in non-local materials. Light: Science and Applications, 2017, 6, e16273-e16273.	16.6	75
21	Synthesis and Reactions of Aminoporphyrazines with Annulated Five- and Seven-Membered Rings. Journal of Organic Chemistry, 2003, 68, 1665-1670.	3.2	69
22	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
23	Nanoscale diffusion in the synaptic cleft and beyond measured with time-resolved fluorescence anisotropy imaging. Scientific Reports, 2017, 7, 42022.	3.3	65
24	Grb2 controls phosphorylation of FGFR2 by inhibiting receptor kinase and Shp2 phosphatase activity. Journal of Cell Biology, 2013, 200, 493-504.	5.2	64
25	White Electroluminescence by Supramolecular Control of Energy Transfer in Blends of Organic-Soluble Encapsulated Polyfluorenes. Advanced Functional Materials, 2010, 20, 272-280.	14.9	60
26	Wide-field TCSPC: methods and applications. Measurement Science and Technology, 2017, 28, 012003.	2.6	60
27	Fluorescence Lifetime Imaging and FRET-Induced Intracellular Redistribution of Tat-Conjugated Quantum Dot Nanoparticles through Interaction with a Phthalocyanine Photosensitizer. Small, 2014, 10, 782-792.	10.0	58
28	Targeted fluorescence lifetime probes reveal responsive organelle viscosity and membrane fluidity. PLoS ONE, 2019, 14, e0211165.	2.5	58
29	TRPA1-FGFR2 binding event is a regulatory oncogenic driver modulated by miRNA-142-3p. Nature Communications, 2017, 8, 947.	12.8	56
30	Title is missing!. Journal of Fluorescence, 2002, 12, 91-95.	2.5	55
31	Extracellular point mutations in FGFR2 elicit unexpected changes in intracellular signalling. Biochemical Journal, 2008, 413, 37-49.	3.7	52
32	In-vivo biodistribution studies and ex-vivo lymph node imaging using heavy metal-free quantum dots. Biomaterials, 2016, 104, 182-191.	11.4	52
33	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.	3.9	51
34	Wide-field time-correlated single-photon counting (TCSPC) lifetime microscopy with microsecond time resolution. Optics Letters, 2014, 39, 5602.	3.3	50
35	Physical properties of the cytoplasm modulate the rates of microtubule polymerization and depolymerization. Developmental Cell, 2022, 57, 466-479.e6.	7.0	50
36	A Fluorescent Biosensor Reveals Conformational Changes in Human Immunoglobulin E Fc. Journal of Biological Chemistry, 2012, 287, 17459-17470.	3.4	49

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37	Gd-containing conjugated polymer nanoparticles: bimodal nanoparticles for fluorescence and MRI imaging. <i>Nanoscale</i> , 2014, 6, 8376-8386.	5.6	48
38	Fluorescence characterisation of multiply-loaded anti-HER2 single chain Fv-photosensitizer conjugates suitable for photodynamic therapy. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 933-939.	2.9	46
39	A Targeted siRNA Screen Identifies Regulators of Cdc42 Activity at the Natural Killer Cell Immunological Synapse. <i>Science Signaling</i> , 2011, 4, ra81.	3.6	46
40	Peripherally Metalated Secoporphyrazines: A New Generation of Photoactive Pigments. <i>Inorganic Chemistry</i> , 2002, 41, 2182-2187.	4.0	42
41	Novel peripherally functionalized seco-porphyrazines: synthesis, characterization and spectroscopic evaluation. <i>Tetrahedron</i> , 2003, 59, 9083-9090.	1.9	42
42	Fluorescence probe techniques to monitor protein adsorption-induced conformation changes on biodegradable polymers. <i>Journal of Colloid and Interface Science</i> , 2007, 312, 193-200.	9.4	42
43	Homodimerization of Amyloid Precursor Protein at the Plasma Membrane: A homoFRET Study by Time-Resolved Fluorescence Anisotropy Imaging. <i>PLoS ONE</i> , 2012, 7, e44434.	2.5	42
44	Multiplexed single-photon counting. I. A time-correlated fluorescence lifetime camera. <i>Review of Scientific Instruments</i> , 1996, 67, 2228-2237.	1.3	41
45	High-Resolution Scanning Near-Field Optical Lithography of Conjugated Polymers. <i>Advanced Functional Materials</i> , 2010, 20, 2842-2847.	14.9	38
46	Luminescence enhancement of a europium containing polyoxometalate on interaction with bovine serum albumin. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 734.	2.9	37
47	Spectrally resolved fluorescence lifetime imaging of Nile red for measurements of intracellular polarity. <i>Journal of Biomedical Optics</i> , 2015, 20, 096002.	2.6	36
48	Time-resolved multifocal multiphoton microscope for high speed FRET imaging in vivo. <i>Optics Letters</i> , 2014, 39, 6013.	3.3	35
49	Direct binding of Grb2 SH3 domain to FGFR2 regulates SHP2 function. <i>Cellular Signalling</i> , 2010, 22, 23-33.	3.6	34
50	Diffusion in a Sol-Gel-Derived Medium with a View toward Biosensor Applications. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3558-3562.	2.6	33
51	Optimisation of centroiding algorithms for photon event counting imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 437, 393-418.	1.6	32
52	Hydrodynamic Radii of Ranibizumab, Aflibercept and Bevacizumab Measured by Time-Resolved Phosphorescence Anisotropy. <i>Pharmaceutical Research</i> , 2016, 33, 2025-2032.	3.5	32
53	Determining a fluorophore's transition dipole moment from fluorescence lifetime measurements in solvents of varying refractive index. <i>Methods and Applications in Fluorescence</i> , 2016, 4, 045001.	2.3	32
54	Noise-Corrected Principal Component Analysis of fluorescence lifetime imaging data. <i>Journal of Biophotonics</i> , 2017, 10, 1124-1133.	2.3	29

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55	Rapid wide-field photon counting imaging with microsecond time resolution. <i>Optics Express</i> , 2010, 18, 25292.	3.4	26
56	Wide-field time-correlated single photon counting-based fluorescence lifetime imaging microscopy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 942, 162365.	1.6	26
57	Lightsheet fluorescence lifetime imaging microscopy with wide-field time-correlated single photon counting. <i>Journal of Biophotonics</i> , 2020, 13, e201960099.	2.3	26
58	Luminescence-lifetime mapping in diamond. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 364210.	1.8	25
59	Molecular rheology of neuronal membranes explored using a molecular rotor: Implications for receptor function. <i>Chemistry and Physics of Lipids</i> , 2016, 196, 69-75.	3.2	25
60	Fast Timing Techniques in FLIM Applications. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	25
61	Imaging immune surveillance by T cells and NK cells. <i>Immunological Reviews</i> , 2002, 189, 179-192.	6.0	24
62	Sub-picosecond time resolution in wide-field time-correlated single photon counting microscopy obtained from the photon event phosphor decay. <i>New Journal of Physics</i> , 2015, 17, 023032.	2.9	24
63	First Resonance Energy Transfer inside Hyperbolic Metamaterials. <i>ACS Photonics</i> , 2018, 5, 4594-4603.	6.6	24
64	Time-Resolved Fluorescence Anisotropy of a Molecular Rotor Resolves Microscopic Viscosity Parameters in Complex Environments. <i>Small</i> , 2020, 16, e1907139.	10.0	24
65	A wide-field TCSPC FLIM system based on an MCP PMT with a delay-line anode. <i>Review of Scientific Instruments</i> , 2016, 87, 093710.	1.3	23
66	Photon counting phosphorescence lifetime imaging with TimepixCam. <i>Review of Scientific Instruments</i> , 2017, 88, 013104.	1.3	23
67	A position-sensitive photon event counting detector applied to fluorescence imaging of dyes in sol-gel matrices. <i>Measurement Science and Technology</i> , 2001, 12, 131-141.	2.6	22
68	Minimization of fixed pattern noise in photon event counting imaging. <i>Review of Scientific Instruments</i> , 2002, 73, 2917-2922.	1.3	21
69	Picosecond wide-field time-correlated single photon counting fluorescence microscopy with a delay line anode detector. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	21
70	Time-Resolved Fluorescence Anisotropy and Molecular Dynamics Analysis of a Novel GFP Homo-FRET Dimer. <i>Biophysical Journal</i> , 2021, 120, 254-269.	0.5	21
71	Time-Resolved Fluorescence Anisotropy Imaging. <i>Methods in Molecular Biology</i> , 2014, 1076, 503-519.	0.9	20
72	Probing Si and Ti Based Sol-Gel Matrices by Fluorescence Techniques. <i>Journal of Fluorescence</i> , 2002, 12, 397-417.	2.5	18

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73	Indirect recruitment of the signalling adaptor Shc to the fibroblast growth factor receptor 2 (FGFR2). <i>Biochemical Journal</i> , 2008, 416, 189-199.	3.7	18
74	Influence of molecular shape, conformability, net surface charge, and tissue interaction on transscleral macromolecular diffusion. <i>Experimental Eye Research</i> , 2012, 102, 85-92.	2.6	18
75	One-pot aqueous synthesis of highly strained CdTe/CdS/ZnS nanocrystals and their interactions with cells. <i>RSC Advances</i> , 2015, 5, 7485-7494.	3.6	18
76	Quantitative Live Cell FLIM Imaging in Three Dimensions. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1035, 31-48.	1.6	17
77	Molecular diffusion within sol-gel derived matrices viewed via fluorescence recovery after photobleaching. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 825.	2.9	15
78	Photon arrival timing with sub-camera exposure time resolution in wide-field time-resolved photon counting imaging. <i>Optics Express</i> , 2010, 18, 24888.	3.4	15
79	Photon counting imaging with an electron-bombarded CCD: Towards a parallel-processing photoelectronic time-to-amplitude converter. <i>Review of Scientific Instruments</i> , 2014, 85, 123102.	1.3	15
80	Simultaneous FRAP, FLIM and FAIM for measurements of protein mobility and interaction in living cells. <i>Biomedical Optics Express</i> , 2015, 6, 3842.	2.9	15
81	Refractive index sensing using Fluorescence Lifetime Imaging (FLIM). <i>Journal of Physics: Conference Series</i> , 2006, 45, 223-230.	0.4	14
82	Photon counting imaging with an electron-bombarded CCD: Towards wide-field time-correlated single photon counting (TCSPC). <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 787, 323-327.	1.6	13
83	Photon Counting Imaging with an Electron-Bombarded Pixel Image Sensor. <i>Sensors</i> , 2016, 16, 617.	3.8	13
84	PRODAN differentially influences its local environment. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16060-16066.	2.8	13
85	<title>Influence of the refractive index on EGFP fluorescence lifetimes in mixtures of water and glycerol</title>. , 2001, 4259, 92.		12
86	Bottom-illuminated orbital shaker for microalgae cultivation. <i>HardwareX</i> , 2020, 8, e00143.	2.2	12
87	Optical spectroscopy following the incorporation of a rare-earth containing (Eu) polyoxometalate into a sol-gel derived media. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 6012.	2.8	11
88	Genetically encoded sensors of protein hydrodynamics and molecular proximity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2569-74.	7.1	11
89	Fluorescence Lifetime Imaging of Molecular Rotors in Living Cells. <i>Journal of Visualized Experiments</i> , 2012, , .	0.3	10
90	Twist and Probe-Fluorescent Molecular Rotors Image Escherichia coli Cell Membrane Viscosity. <i>Biophysical Journal</i> , 2016, 111, 1337-1338.	0.5	10

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91	Singlet-Triplet Transition Rate Enhancement inside Hyperbolic Metamaterials. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900101.	8.7	10
92	Fluorescence Lifetime Imaging (FLIM): Basic Concepts and Recent Applications. <i>Springer Series in Chemical Physics</i> , 2015, , 119-188.	0.2	9
93	Photon counting imaging and centroiding with an electron-bombarded CCD using single molecule localisation software. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 820, 121-125.	1.6	8
94	Special issue on fluorescence lifetime imaging (FLIM): from fundamentals to applications. <i>Methods and Applications in Fluorescence</i> , 2020, 8, 040401.	2.3	8
95	Simultaneous measurements of fluorescence lifetimes, anisotropy, and FRAP recovery curves. , 2011, , .		7
96	Wide-field time-correlated single photon counting (TCSPC) microscopy with time resolution below the frame exposure time. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 787, 1-5.	1.6	6
97	Single-molecule localization software applied to photon counting imaging. <i>Applied Optics</i> , 2015, 54, 5074.	2.1	6
98	Array fluorometry: the theory of the statistical multiplexing of single-photon timing. , 1990, 1204, 26.		5
99	Chapter 4 Multidimensional fluorescence imaging. <i>Laboratory Techniques in Biochemistry and Molecular Biology / Edited By T S Work [and] E Work</i> , 2009, 33, 133-169.	0.2	4
100	Fixed Pattern Noise in Localization Microscopy. <i>ChemPhysChem</i> , 2014, 15, 677-686.	2.1	4
101	Wide-field TCSPC-based fluorescence lifetime imaging (FLIM) microscopy. , 2016, , .		4
102	Correction of time-resolved SPAD array measurements for accurate single-photon time-resolved biological imaging. , 2021, , .		4
103	Fluorescence Lifetime Imaging. , 2014, , 1-50.		4
104	Determining vitreous viscosity using fluorescence recovery after photobleaching. <i>PLoS ONE</i> , 2022, 17, e0261925.	2.5	4
105	Fluorescence Lifetime Imaging. , 2017, , 353-405.		3
106	Cellular imaging using emission-tuneable conjugated polymer nanoparticles. <i>RSC Advances</i> , 2019, 9, 37971-37976.	3.6	3
107	Mapping the refractive index sensing range of the GFP fluorescence decay with FLIM. , 2006, 6098, 37.		2
108	Multidimensional multiphoton fluorescence lifetime imaging of cells. , 2008, , .		2

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109	A high-content screening platform utilizing polarization anisotropy and FLIM microscopy. Proceedings of SPIE, 2008, , .	0.8	2
110	Mapping intracellular viscosity by advanced fluorescence imaging of molecular rotors in living cells. , 2011, , .		2
111	Microsecond wide-field TCSPC microscopy based on an ultra-fast CMOS camera. Proceedings of SPIE, 2015, , .	0.8	2
112	Monitoring Nanoscale Mobility of Small Molecules in Organized Brain Tissue with Time-Resolved Fluorescence Anisotropy Imaging. Neuromethods, 2014, , 125-143.	0.3	2
113	Fluorescence lifetime imaging for viscosity and diffusion measurements. , 2019, , .		2
114	Time-resolved fluorescence microscopy. Proceedings of SPIE, 2007, 6771, 52.	0.8	1
115	Wide-field time-correlated single photon counting imaging for luminescence microscopy. , 2008, , .		1
116	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
117	Multidimensional Fluorescence Microscopy for Simultaneous Functional and Structural Imaging. Biophysical Journal, 2019, 116, 1787-1789.	0.5	1
118	Fluorescence Lifetime Imaging. , 2015, , 1-50.		1
119	<title>Fluorescence-lifetime imaging using a novel photon sensing module</title>. , 1997, , .		0
120	Refractive index sensing using fluorescence lifetime imaging (FLIM). , 2007, , .		0
121	Wide-field photon counting imaging for fluorescence microscopy. , 2007, , .		0
122	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
123	Advances in time-resolved fluorescence microscopy: Simultaneous FRAP, FLIM and tr-FAIM to image rotational and translation diffusion in living cells. , 2011, , .		0
124	Photophysics of fluorescence. , 2014, , 23-46.		0
125	Investigating cell membrane structure and dynamics with TCSPC-FLIM. , 2015, , .		0
126	Editorial: Modern Tools for Time-Resolved Luminescence Biosensing and Imaging. Frontiers in Physics, 0, 9, .	2.1	0

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127	Grb2 controls phosphorylation of FGFR2 by inhibiting receptor kinase and Shp2 phosphatase activity. Journal of General Physiology, 2013, 141, i8-i8.	1.9	0
128	Fluorescence Recovery After Photobleaching (FRAP) with simultaneous Fluorescence Lifetime and time-resolved Fluorescence Anisotropy Imaging (FLIM and tr-FAIM). , 2019, , .		0
129	Imaging mitochondrial matrix viscosity in live cells via fluorescence lifetime imaging (FLIM) of fluorescent molecular rotors. , 2019, , .		0