

# Klaus Suhling

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/1819637/klaus-suhling-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Molecular rotor measures viscosity of live cells via fluorescence lifetime imaging. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 6672-3	16.4	541
119	Imaging intracellular viscosity of a single cell during photoinduced cell death. <i>Nature Chemistry</i> , <b>2009</b> , 1, 69-73	17.6	448
118	Time-resolved fluorescence microscopy. <i>Photochemical and Photobiological Sciences</i> , <b>2005</b> , 4, 13-22	4.2	425
117	Imaging the environment of green fluorescent protein. <i>Biophysical Journal</i> , <b>2002</b> , 83, 3589-95	2.9	204
116	Phospholipid encapsulated semiconducting polymer nanoparticles: their use in cell imaging and protein attachment. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 3989-96	16.4	192
115	Membrane-Bound Molecular Rotors Measure Viscosity in Live Cells via Fluorescence Lifetime Imaging $\square$ <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 11634-11642	3.8	178
114	Fluorescence lifetime and polarization-resolved imaging in cell biology. <i>Current Opinion in Biotechnology</i> , <b>2009</b> , 20, 28-36	11.4	161
113	Time-domain fluorescence lifetime imaging applied to biological tissue. <i>Photochemical and Photobiological Sciences</i> , <b>2004</b> , 3, 795-801	4.2	152
112	The interactions between a small molecule and G-quadruplexes are visualized by fluorescence lifetime imaging microscopy. <i>Nature Communications</i> , <b>2015</b> , 6, 8178	17.4	144
111	Effects of axial ligands on the photophysical properties of silicon octaphenoxypthalocyanine. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2002</b> , 06, 373-376	1.8	144
110	Fluorescence lifetime imaging (FLIM): Basic concepts and some recent developments <b>2015</b> , 27, 3-40		131
109	Biosynthesis of luminescent quantum dots in an earthworm. <i>Nature Nanotechnology</i> , <b>2013</b> , 8, 57-60	28.7	128
108	Photophysical properties and intracellular imaging of water-soluble porphyrin dimers for two-photon excited photodynamic therapy. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 889-96	3.9	123
107	Time-resolved fluorescence anisotropy imaging applied to live cells. <i>Optics Letters</i> , <b>2004</b> , 29, 584-6	3	113
106	Imaging proteins in vivo using fluorescence lifetime microscopy. <i>Molecular BioSystems</i> , <b>2007</b> , 3, 381-91		108
105	A high speed multifocal multiphoton fluorescence lifetime imaging microscope for live-cell FRET imaging. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 277-96	3.5	85
104	Fluorescence anisotropy of molecular rotors. <i>ChemPhysChem</i> , <b>2011</b> , 12, 662-72	3.2	85

103	Synthesis and reactions of aminoporphyrazines with annulated five- and seven-membered rings. <i>Journal of Organic Chemistry</i> , <b>2003</b> , 68, 1665-70	4.2	63
102	Spontaneous emission in non-local materials. <i>Light: Science and Applications</i> , <b>2017</b> , 6, e16273	16.7	61
101	Wide-field time-resolved fluorescence anisotropy imaging (TR-FAIM): Imaging the rotational mobility of a fluorophore. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 182-192	1.7	61
100	Effect of refractive index on the fluorescence lifetime of green fluorescent protein. <i>Journal of Biomedical Optics</i> , <b>2008</b> , 13, 031218	3.5	59
99	Monitoring sol-to-gel transitions via fluorescence lifetime determination using viscosity sensitive fluorescent probes. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 12067-74	3.4	57
98	Fluorescence lifetime imaging and FRET-induced intracellular redistribution of Tat-conjugated quantum dot nanoparticles through interaction with a phthalocyanine photosensitizer. <i>Small</i> , <b>2014</b> , 10, 782-92	11	51
97	White Electroluminescence by Supramolecular Control of Energy Transfer in Blends of Organic-Soluble Encapsulated Polyfluorenes. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 272-280	15.6	50
96	Grb2 controls phosphorylation of FGFR2 by inhibiting receptor kinase and Shp2 phosphatase activity. <i>Journal of Cell Biology</i> , <b>2013</b> , 200, 493-504	7.3	49
95	The Influence of Solvent Viscosity on the Fluorescence Decay and Time-Resolved Anisotropy of Green Fluorescent Protein. <i>Journal of Fluorescence</i> , <b>2002</b> , 12, 91-95	2.4	49
94	Wide-field time-correlated single-photon counting (TCSPC) lifetime microscopy with microsecond time resolution. <i>Optics Letters</i> , <b>2014</b> , 39, 5602-5	3	45
93	Extracellular point mutations in FGFR2 elicit unexpected changes in intracellular signalling. <i>Biochemical Journal</i> , <b>2008</b> , 413, 37-49	3.8	45
92	Nanoscale diffusion in the synaptic cleft and beyond measured with time-resolved fluorescence anisotropy imaging. <i>Scientific Reports</i> , <b>2017</b> , 7, 42022	4.9	43
91	In vivo biodistribution studies and ex vivo lymph node imaging using heavy metal-free quantum dots. <i>Biomaterials</i> , <b>2016</b> , 104, 182-91	15.6	42
90	Fluorescence characterisation of multiply-loaded anti-HER2 single chain Fv-photosensitizer conjugates suitable for photodynamic therapy. <i>Photochemical and Photobiological Sciences</i> , <b>2007</b> , 6, 933-9	4.2	42
89	Wide-field TCSPC: methods and applications. <i>Measurement Science and Technology</i> , <b>2017</b> , 28, 012003	2	41
88	A fluorescent biosensor reveals conformational changes in human immunoglobulin E Fc: implications for mechanisms of receptor binding, inhibition, and allergen recognition. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 17459-17470	5.4	41
87	Gd-containing conjugated polymer nanoparticles: bimodal nanoparticles for fluorescence and MRI imaging. <i>Nanoscale</i> , <b>2014</b> , 6, 8376-86	7.7	40
86	A targeted siRNA screen identifies regulators of Cdc42 activity at the natural killer cell immunological synapse. <i>Science Signaling</i> , <b>2011</b> , 4, ra81	8.8	40

85	Peripherally metalated secoporphyrazines: a new generation of photoactive pigments. <i>Inorganic Chemistry</i> , <b>2002</b> , 41, 2182-7	5.1	40
84	Comparison of the fluorescence behaviour of rhodamine 6G in bulk and thin film tetraethylorthosilicate derived sol-gel matrices. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1999</b> , 129, 71-80	4.7	40
83	Fluorescence probe techniques to monitor protein adsorption-induced conformation changes on biodegradable polymers. <i>Journal of Colloid and Interface Science</i> , <b>2007</b> , 312, 193-200	9.3	39
82	Novel peripherally functionalized seco-porphyrazines: synthesis, characterization and spectroscopic evaluation. <i>Tetrahedron</i> , <b>2003</b> , 59, 9083-9090	2.4	39
81	Luminescence enhancement of a europium containing polyoxometalate on interaction with bovine serum albumin. <i>Photochemical and Photobiological Sciences</i> , <b>2008</b> , 7, 734-7	4.2	36
80	Multiplexed single-photon counting. I. A time-correlated fluorescence lifetime camera. <i>Review of Scientific Instruments</i> , <b>1996</b> , 67, 2228-2237	1.7	36
79	Time-resolved multifocal multiphoton microscope for high speed FRET imaging in vivo. <i>Optics Letters</i> , <b>2014</b> , 39, 6013-6	3	33
78	High-Resolution Scanning Near-Field Optical Lithography of Conjugated Polymers. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 2842-2847	15.6	33
77	Targeted fluorescence lifetime probes reveal responsive organelle viscosity and membrane fluidity. <i>PLoS ONE</i> , <b>2019</b> , 14, e0211165	3.7	32
76	Homodimerization of amyloid precursor protein at the plasma membrane: a homoFRET study by time-resolved fluorescence anisotropy imaging. <i>PLoS ONE</i> , <b>2012</b> , 7, e44434	3.7	32
75	Diffusion in a sol-gel-derived medium with a view toward biosensor applications. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 3558-62	3.4	30
74	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> , <b>1999</b> , 437, 393-418	1.2	27
73	TRPA1-FGFR2 binding event is a regulatory oncogenic driver modulated by miRNA-142-3p. <i>Nature Communications</i> , <b>2017</b> , 8, 947	17.4	26
72	Hydrodynamic Radii of Ranibizumab, Aflibercept and Bevacizumab Measured by Time-Resolved Phosphorescence Anisotropy. <i>Pharmaceutical Research</i> , <b>2016</b> , 33, 2025-32	4.5	25
71	Rapid wide-field photon counting imaging with microsecond time resolution. <i>Optics Express</i> , <b>2010</b> , 18, 25292-8	3.3	24
70	Direct binding of Grb2 SH3 domain to FGFR2 regulates SHP2 function. <i>Cellular Signalling</i> , <b>2010</b> , 22, 23-33	4.9	24
69	Luminescence-lifetime mapping in diamond. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 364210	1.8	23
68	Imaging immune surveillance by T cells and NK cells. <i>Immunological Reviews</i> , <b>2002</b> , 189, 179-92	11.3	23

67	Determining a fluorophore's transition dipole moment from fluorescence lifetime measurements in solvents of varying refractive index. <i>Methods and Applications in Fluorescence</i> , <b>2016</b> , 4, 045001	3.1	22
66	Sub- $\beta$ time resolution in wide-field time-correlated single photon counting microscopy obtained from the photon event phosphor decay. <i>New Journal of Physics</i> , <b>2015</b> , 17, 023032	2.9	21
65	Molecular rheology of neuronal membranes explored using a molecular rotor: Implications for receptor function. <i>Chemistry and Physics of Lipids</i> , <b>2016</b> , 196, 69-75	3.7	21
64	Photon counting phosphorescence lifetime imaging with TimepixCam. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 013104	1.7	20
63	A position-sensitive photon event counting detector applied to fluorescence imaging of dyes in sol-gel matrices. <i>Measurement Science and Technology</i> , <b>2001</b> , 12, 131-141	2	20
62	Noise-Corrected Principal Component Analysis of fluorescence lifetime imaging data. <i>Journal of Biophotonics</i> , <b>2017</b> , 10, 1124-1133	3.1	18
61	Probing Si and Ti Based Sol-Gel Matrices by Fluorescence Techniques. <i>Journal of Fluorescence</i> , <b>2002</b> , 12, 397-417	2.4	18
60	Time-resolved fluorescence anisotropy imaging. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1076, 503-19	1.4	18
59	Spectrally resolved fluorescence lifetime imaging of Nile red for measurements of intracellular polarity. <i>Journal of Biomedical Optics</i> , <b>2015</b> , 20, 096002	3.5	17
58	One-pot aqueous synthesis of highly strained CdTe/CdS/ZnS nanocrystals and their interactions with cells. <i>RSC Advances</i> , <b>2015</b> , 5, 7485-7494	3.7	17
57	Picosecond wide-field time-correlated single photon counting fluorescence microscopy with a delay line anode detector. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 071101	3.4	17
56	A wide-field TCSPC FLIM system based on an MCP PMT with a delay-line anode. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 093710	1.7	17
55	Minimization of fixed pattern noise in photon event counting imaging. <i>Review of Scientific Instruments</i> , <b>2002</b> , 73, 2917-2922	1.7	16
54	F $\ddot{u}$ ster Resonance Energy Transfer inside Hyperbolic Metamaterials. <i>ACS Photonics</i> , <b>2018</b> , 5, 4594-4603	6.3	16
53	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> , <b>2019</b> , 942, 162365	1.2	15
52	Photon arrival timing with sub-camera exposure time resolution in wide-field time-resolved photon counting imaging. <i>Optics Express</i> , <b>2010</b> , 18, 24888-901	3.3	15
51	Molecular diffusion within sol-gel derived matrices viewed via fluorescence recovery after photobleaching. <i>Photochemical and Photobiological Sciences</i> , <b>2007</b> , 6, 825-8	4.2	14
50	Simultaneous FRAP, FLIM and FAIM for measurements of protein mobility and interaction in living cells. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 3842-54	3.5	13

49	Photon counting imaging with an electron-bombarded CCD: towards a parallel-processing photoelectronic time-to-amplitude converter. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 123102	1.7	13
48	Indirect recruitment of the signalling adaptor Shc to the fibroblast growth factor receptor 2 (FGFR2). <i>Biochemical Journal</i> , <b>2008</b> , 416, 189-99	3.8	13
47	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> , <b>2015</b> , 787, 323-327	1.2	12
46	Influence of molecular shape, conformability, net surface charge, and tissue interaction on transscleral macromolecular diffusion. <i>Experimental Eye Research</i> , <b>2012</b> , 102, 85-92	3.7	12
45	Lightsheet fluorescence lifetime imaging microscopy with wide-field time-correlated single photon counting. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e201960099	3.1	12
44	Quantitative Live Cell FLIM Imaging in Three Dimensions. <i>Advances in Experimental Medicine and Biology</i> , <b>2017</b> , 1035, 31-48	3.6	11
43	PRODAN differentially influences its local environment. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 16060-16066	3.6	11
42	Optical spectroscopy following the incorporation of a rare-earth containing (Eu) polyoxometalate into a sol-gel derived media. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 6012-5	3.6	11
41	Time-Resolved Fluorescence Anisotropy of a Molecular Rotor Resolves Microscopic Viscosity Parameters in Complex Environments. <i>Small</i> , <b>2020</b> , 16, e1907139	11	10
40	Fast Timing Techniques in FLIM Applications. <i>Frontiers in Physics</i> , <b>2020</b> , 8,	3.9	10
39	Fluorescence lifetime imaging of molecular rotors in living cells. <i>Journal of Visualized Experiments</i> , <b>2012</b> ,	1.6	10
38	Refractive index sensing using Fluorescence Lifetime Imaging (FLIM). <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 45, 223-230	0.3	9
37	Photon Counting Imaging with an Electron-Bombarded Pixel Image Sensor. <i>Sensors</i> , <b>2016</b> , 16,	3.8	9
36	Genetically encoded sensors of protein hydrodynamics and molecular proximity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E2569-74	11.5	8
35	Singlet-Triplet Transition Rate Enhancement inside Hyperbolic Metamaterials. <i>Laser and Photonics Reviews</i> , <b>2019</b> , 13, 1900101	8.3	8
34	Fluorescence Lifetime Imaging (FLIM): Basic Concepts and Recent Applications. <i>Springer Series in Chemical Physics</i> , <b>2015</b> , 119-188	0.3	8
33	Twist and Probe-Fluorescent Molecular Rotors Image Escherichia coli Cell Membrane Viscosity. <i>Biophysical Journal</i> , <b>2016</b> , 111, 1337-1338	2.9	8
32	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> , <b>2016</b> , 820, 121-125	1.2	7

31	Simultaneous measurements of fluorescence lifetimes, anisotropy, and FRAP recovery curves <b>2011</b> ,		7
30	Influence of the refractive index on EGFP fluorescence lifetimes in mixtures of water and glycerol <b>2001</b> , 4259, 92		7
29	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> , <b>2015</b> , 787, 1-5	1.2	5
28	Single-molecule localization software applied to photon counting imaging. <i>Applied Optics</i> , <b>2015</b> , 54, 5074-82	1.2	5
27	Array fluorometry: the theory of the statistical multiplexing of single-photon timing <b>1990</b> , 1204, 26		5
26	Physical properties of the cytoplasm modulate the rates of microtubule polymerization and depolymerization		5
25	Bottom-illuminated orbital shaker for microalgae cultivation. <i>HardwareX</i> , <b>2020</b> , 8, e00143	2.7	5
24	Time-Resolved Fluorescence Anisotropy and Molecular Dynamics Analysis of a Novel GFP Homo-FRET Dimer. <i>Biophysical Journal</i> , <b>2021</b> , 120, 254-269	2.9	5
23	Fixed pattern noise in localization microscopy. <i>ChemPhysChem</i> , <b>2014</b> , 15, 677-86	3.2	4
22	Physical properties of the cytoplasm modulate the rates of microtubule polymerization and depolymerization.. <i>Developmental Cell</i> , <b>2022</b> , 57, 466-479.e6	10.2	4
21	Fluorescence Lifetime Imaging <b>2017</b> , 353-405		3
20	Chapter 4 Multidimensional fluorescence imaging. <i>Laboratory Techniques in Biochemistry and Molecular Biology / Edited By T S Work [and] E Work</i> , <b>2009</b> , 33, 133-169		3
19	Special issue on fluorescence lifetime imaging (FLIM): from fundamentals to applications. <i>Methods and Applications in Fluorescence</i> , <b>2020</b> , 8, 040401	3.1	3
18	Wide-field TCSPC-based fluorescence lifetime imaging (FLIM) microscopy <b>2016</b> ,		3
17	Microsecond wide-field TCSPC microscopy based on an ultra-fast CMOS camera <b>2015</b> ,		2
16	Mapping intracellular viscosity by advanced fluorescence imaging of molecular rotors in living cells <b>2011</b> ,		2
15	Multidimensional multiphoton fluorescence lifetime imaging of cells <b>2008</b> ,		2
14	Mapping the refractive index sensing range of the GFP fluorescence decay with FLIM <b>2006</b> , 6098, 37		2

13	Bottom-Illuminated Orbital Shaker for Microalgae Cultivation		2
12	Monitoring Nanoscale Mobility of Small Molecules in Organized Brain Tissue with Time-Resolved Fluorescence Anisotropy Imaging. <i>Neuromethods</i> , <b>2014</b> , 125-143	0.4	2
11	Multidimensional Fluorescence Microscopy for Simultaneous Functional and Structural Imaging. <i>Biophysical Journal</i> , <b>2019</b> , 116, 1787-1789	2.9	1
10	Wide-field time-correlated single photon counting imaging for luminescence microscopy <b>2008</b> ,		1
9	A high-content screening platform utilizing polarization anisotropy and FLIM microscopy <b>2008</b> ,		1
8	Time-resolved fluorescence microscopy <b>2007</b> , 6771, 52		1
7	Determining vitreous viscosity using fluorescence recovery after photobleaching.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0261925	3.7	1
6	Fluorescence Lifetime Imaging <b>2015</b> , 1-50		1
5	Fluorescence Lifetime Imaging <b>2014</b> , 1-50		1
4	Cellular imaging using emission-tuneable conjugated polymer nanoparticles.. <i>RSC Advances</i> , <b>2019</b> , 9, 37971-37976	3.7	0
3	Photophysics of fluorescence <b>2014</b> , 23-46		
2	Wide-field single photon counting imaging with an ultrafast camera and an image intensifier. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2012</b> , 695, 306-308	1.2	
1	Grb2 controls phosphorylation of FGFR2 by inhibiting receptor kinase and Shp2 phosphatase activity. <i>Journal of General Physiology</i> , <b>2013</b> , 141, i8-i8	3.4	