## Jerker Widengren

List of Publications by Year in descending order

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76326 53230 7,904 127 40 85 citations h-index g-index papers 131 131 131 7555 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Coincident Fluorescenceâ€Burst Analysis of the Loading Yields of Exosomeâ€Mimetic Nanovesicles with Fluorescentlyâ€Labeled Cargo Molecules. Small, 2022, , 2106241.	10.0	4
2	Metastasising Fibroblasts Show an HDAC6-Dependent Increase in Migration Speed and Loss of Directionality Linked to Major Changes in the Vimentin Interactome. International Journal of Molecular Sciences, 2022, 23, 1961.	4.1	6
3	Fluorescent Probes for STED Optical Nanoscopy. Nanomaterials, 2022, 12, 21.	4.1	15
4	Imaging Fluorescence Blinking of a Mitochondrial Localization Probe: Cellular Localization Probes Turned into Multifunctional Sensors. Journal of Physical Chemistry B, 2022, 126, 3048-3058.	2.6	6
5	Migrating photon avalanche in different emitters at the nanoscale enables 46th-order optical nonlinearity. Nature Nanotechnology, 2022, 17, 524-530.	31.5	63
6	Achieving low-power single-wavelength-pair nanoscopy with NIR-II continuous-wave laser for multi-chromatic probes. Nature Communications, 2022, $13$ , .	12.8	20
7	Fast, streamlined fluorescence nanoscopy resolves rearrangements of SNARE and cargo proteins in platelets co-incubated with cancer cells. Journal of Nanobiotechnology, 2022, 20, .	9.1	3
8	Cumulative effects of photobleaching in volumetric STED imaging—artefacts and possible benefits. Methods and Applications in Fluorescence, 2021, 9, 015003.	2.3	3
9	Neuronal death in pneumococcal meningitis is triggered by pneumolysin and RrgA interactions with $\hat{l}^2$ -actin. PLoS Pathogens, 2021, 17, e1009432.	4.7	14
10	SATB1, genomic instability and Gleason grading constitute a novel risk score for prostate cancer. Scientific Reports, 2021, 11, 24446.	3.3	1
11	Capillary leakage provides nutrients and antioxidants for rapid pneumococcal proliferation in influenza-infected lower airways. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31386-31397.	7.1	28
12	Huge upconversion luminescence enhancement by a cascade optical field modulation strategy facilitating selective multispectral narrow-band near-infrared photodetection. Light: Science and Applications, 2020, 9, 184.	16.6	60
13	Conformational and Compositional Tuning of Phenanthrocarbazole-Based Dopant-Free Hole-Transport Polymers Boosting the Performance of Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 17681-17692.	13.7	83
14	Phosphatidylserine positive microparticles improve hemostasis in in-vitro hemophilia A plasma models. Scientific Reports, 2020, 10, 7871.	3.3	11
15	Photoisomerization of DiD: Molecular Dynamics Calculations Reveal the Influence of Tail Lengths. Journal of Physical Chemistry C, 2020, 124, 5829-5837.	3.1	1
16	Change in the emission saturation and kinetics of upconversion nanoparticles under different light irradiations. Optical Materials, 2019, 97, 109389.	3.6	5
17	Fast upconversion super-resolution microscopy with 10 $\hat{l}$ 4s per pixel dwell times. Nanoscale, 2019, 11, 1563-1569.	5.6	43
18	Super-resolution microscopy can identify specific protein distribution patterns in platelets incubated with cancer cells. Nanoscale, 2019, 11, 10023-10033.	5.6	22

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19	On the decay time of upconversion luminescence. Nanoscale, 2019, 11, 4959-4969.	5.6	76
20	Polymeric, Cost-Effective, Dopant-Free Hole Transport Materials for Efficient and Stable Perovskite Solar Cells. Journal of the American Chemical Society, 2019, 141, 19700-19707.	13.7	119
21	Imaging of intermittent lipid-receptor interactions reflects changes in live cell membranes upon agonist-receptor binding. Scientific Reports, 2019, 9, 18133.	3.3	8
22	Local redox conditions in cells imaged via non-fluorescent transient states of NAD(P)H. Scientific Reports, 2019, 9, 15070.	3.3	10
23	Functional interactions between nitrite reductase and nitric oxide reductase from Paracoccus denitrificans. Scientific Reports, 2019, 9, 17234.	3.3	7
24	In Situ Monitoring of p53 Protein and MDM2 Protein Interaction in Single Living Cells Using Single-Molecule Fluorescence Spectroscopy. Analytical Chemistry, 2018, 90, 6144-6151.	6.5	20
25	Platelet protein biomarker panel for ovarian cancer diagnosis. Biomarker Research, 2018, 6, 2.	6.8	36
26	Nanoscale localization of proteins within focal adhesions indicates discrete functional assemblies with selective forceâ€dependence. FEBS Journal, 2018, 285, 1635-1652.	4.7	12
27	Label-free monitoring of ambient oxygenation and redox conditions using the photodynamics of flavin compounds and transient state (TRAST) spectroscopy. Methods, 2018, 140-141, 178-187.	3.8	20
28	Overtone Vibrational Transition-Induced Lanthanide Excited-State Quenching in Yb <sup>3+</sup> /Er <sup>3+</sup> -Doped Upconversion Nanocrystals. ACS Nano, 2018, 12, 10572-10575.	14.6	29
29	A facile route to grain morphology controllable perovskite thin films towards highly efficient perovskite solar cells. Nano Energy, 2018, 53, 405-414.	16.0	60
30	Fluorescence-based monitoring of electronic state and ion exchange kinetics with FCS and related techniques: from T-jump measurements to fluorescence fluctuations. European Biophysics Journal, 2018, 47, 479-492.	2.2	7
31	Factor H binding proteins protect division septa on encapsulated Streptococcus pneumoniae against complement C3b deposition and amplification. Nature Communications, 2018, 9, 3398.	12.8	44
32	Stimulated Emission Depletion Microscopy. Chemical Reviews, 2017, 117, 7377-7427.	47.7	226
33	plgR and PECAM-1 bind to pneumococcal adhesins RrgA and PspC mediating bacterial brain invasion. Journal of Experimental Medicine, 2017, 214, 1619-1630.	8.5	79
34	The lateral distance between a proton pump and ATP synthase determines the ATP-synthesis rate. Scientific Reports, 2017, 7, 2926.	3.3	41
35	Characterization of the Role of the Malate Dehydrogenases to Lung Tumor Cell Survival. Journal of Cancer, 2017, 8, 2088-2096.	2.5	31
36	Cytokines Induce Faster Membrane Diffusion of MHC Class I and the Ly49A Receptor in a Subpopulation of Natural Killer Cells. Frontiers in Immunology, 2016, 7, 16.	4.8	7

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37	Fluorescence correlation spectroscopy diffusion laws in the presence of moving nanodomains. Journal Physics D: Applied Physics, 2016, 49, 114002.	2.8	19
38	Resolution, target density and labeling effects in colocalization studies – suppression of false positives by nanoscopy and modified algorithms. FEBS Journal, 2016, 283, 882-898.	4.7	16
39	Fluorescence-based characterization of non-fluorescent transient states of tryptophan $\hat{a} \in \text{``prospects}$ for protein conformation and interaction studies. Scientific Reports, 2016, 6, 35052.	3.3	18
40	Catalytic Conversion of Lipophilic Substrates by Phase constrained Enzymes in the Aqueous or in the Membrane Phase. Scientific Reports, 2016, 6, 38316.	3.3	4
41	Protonation Dynamics on Lipid Nanodiscs: Influence of the Membrane Surface Area and External Buffers. Biophysical Journal, 2016, 110, 1993-2003.	0.5	34
42	Labelâ€Free Fluctuation Spectroscopy Based on Coherent Antiâ€Stokes Raman Scattering from Bulk Water Molecules. ChemPhysChem, 2016, 17, 1025-1033.	2.1	11
43	MHC I Expression Regulates Co-clustering and Mobility of Interleukin-2 and -15 Receptors in T Cells. Biophysical Journal, 2016, 111, 100-112.	0.5	15
44	Determination of molecular stoichiometry without reference samples by analyzing fluorescence blinking with and without excitation synchronization. Methods and Applications in Fluorescence, 2015, 3, 025001.	2.3	2
45	Efficiency Enhanced Colloidal Mn-Doped Type II Core/Shell ZnSe/CdS Quantum Dot Sensitized Hybrid Solar Cells. Journal of Nanomaterials, 2015, 2015, 1-9.	2.7	11
46	SLC10A4 Is a Vesicular Amine-Associated Transporter Modulating Dopamine Homeostasis. Biological Psychiatry, 2015, 77, 526-536.	1.3	37
47	<i>Trans–Cis</i> Isomerization of Lipophilic Dyes Probing Membrane Microviscosity in Biological Membranes and in Live Cells. Analytical Chemistry, 2015, 87, 5690-5697.	6.5	35
48	Highly Sensitive FRET-FCS Detects Amyloid $\hat{l}^2$ -Peptide Oligomers in Solution at Physiological Concentrations. Analytical Chemistry, 2015, 87, 11700-11705.	6.5	49
49	Mechanisms of fluorescence decays of colloidal CdSe–CdS/ZnS quantum dots unraveled by time-resolved fluorescence measurement. Physical Chemistry Chemical Physics, 2015, 17, 27588-27595.	2.8	21
50	Transient state imaging of live cells using single plane illumination and arbitrary duty cycle excitation pulse trains. Journal of Biophotonics, 2015, 8, 392-400.	2.3	8
51	Chromatinin situproximity (ChrISP): Single-cell analysis of chromatin proximities at a high resolution. BioTechniques, 2014, 56, 117-8, 120-4.	1.8	9
52	Scanning inverse fluorescence correlation spectroscopy. Optics Express, 2014, 22, 13073.	3.4	7
53	Oncogenes induce a vimentin filament collapse mediated by HDAC6 that is linked to cell stiffness. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1515-1520.	7.1	90
54	Transient state microscopy probes patterns of altered oxygen consumption in cancer cells. FEBS Journal, 2014, 281, 1317-1332.	4.7	24

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55	Multicolor Fluorescence Nanoscopy by Photobleaching: Concept, Verification, and Its Application To Resolve Selective Storage of Proteins in Platelets. ACS Nano, 2014, 8, 4358-4365.	14.6	29
56	Analysis of Rho GTPase-Induced Localization of Nanoscale Adhesions Using Fluorescence Nanoscopy. Methods in Molecular Biology, 2014, 1120, 339-357.	0.9	0
57	Dark States in Ionic Oligothiophene Bioprobesâ€"Evidence from Fluorescence Correlation Spectroscopy and Dynamic Light Scattering. Journal of Physical Chemistry B, 2014, 118, 5924-5933.	2.6	4
58	STED microscopyâ€"towards broadened use and scope of applications. Current Opinion in Chemical Biology, 2014, 20, 127-133.	6.1	26
59	Sequential pH-driven dimerization and stabilization of the N-terminal domain enables rapid spider silk formation. Nature Communications, 2014, 5, 3254.	12.8	134
60	Studying Ion Exchange in Solution and at Biological Membranes by FCS. Methods in Enzymology, 2013, 519, 231-252.	1.0	2
61	Spatial organization of proteins in metastasizing cells. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2013, 83, 855-865.	1.5	27
62	dNTP-dependent Conformational Transitions in the Fingers Subdomain of Klentaq1 DNA Polymerase. Journal of Biological Chemistry, 2013, 288, 13575-13591.	3.4	27
63	Spatial Distribution of DARPP-32 in Dendritic Spines. PLoS ONE, 2013, 8, e75155.	2.5	25
64	Sequential Closure of the Cytoplasm and Then the Periplasm during Cell Division in Escherichia coli. Journal of Bacteriology, 2012, 194, 584-586.	2.2	10
65	LytA, Major Autolysin of Streptococcus pneumoniae, Requires Access to Nascent Peptidoglycan. Journal of Biological Chemistry, 2012, 287, 11018-11029.	3.4	107
66	Rho GTPases link cellular contractile force to the density and distribution of nanoscale adhesions. FASEB Journal, 2012, 26, 2374-2382.	0.5	22
67	Fluorescence Nanoscopy of Platelets Resolves Plateletâ€State Specific Storage, Release and Uptake of Proteins, Opening up Future Diagnostic Applications. Advanced Healthcare Materials, 2012, 1, 707-713.	7.6	27
68	Interferometry and Fluorescence Detection for Simultaneous Analysis of Labeled and Unlabeled Nanoparticles in Solution. Journal of the American Chemical Society, 2012, 134, 19516-19519.	13.7	13
69	Nearest neighbor analysis of dopamine D1 receptors and Na <sup>+</sup> â€K <sup>+</sup> â€ATPases in dendritic spines dissected by STED microscopy. Microscopy Research and Technique, 2012, 75, 220-228.	2.2	42
70	Förster Resonance Energy Transfer beyond 10 nm: Exploiting the Triplet State Kinetics of Organic Fluorophores. Journal of Physical Chemistry B, 2011, 115, 13360-13370.	2.6	37
71	A Modified FCCS Procedure Applied to Ly49A-MHC Class I cis-Interaction Studies in Cell Membranes. Biophysical Journal, 2011, 101, 1257-1269.	0.5	23
72	Spatial distribution of Na+-K+-ATPase in dendritic spines dissected by nanoscale superresolution STED microscopy. BMC Neuroscience, 2011, 12, 16.	1.9	67

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73	Interactions Between a Luminescent Conjugated Oligoelectrolyte and Insulin During Early Phases of Amyloid Formation. Macromolecular Bioscience, 2011, 11, 1120-1127.	4.1	11
74	Inverse-fluorescence correlation spectroscopy more information and less labeling. Frontiers in Bioscience - Scholar, 2011, S3, 385-392.	2.1	7
75	Iodide as a Fluorescence Quencher and Promoter—Mechanisms and Possible Implications. Journal of Physical Chemistry B, 2010, 114, 11282-11291.	2.6	98
76	Estimating Zâ€ring radius and contraction in dividing <i>Escherichia coli</i> i>. Molecular Microbiology, 2010, 76, 151-158.	2.5	6
77	Fluorescence-based transient state monitoring for biomolecular spectroscopy and imaging. Journal of the Royal Society Interface, 2010, 7, 1135-1144.	3.4	38
78	Surface-coupled proton exchange of a membrane-bound proton acceptor. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4129-4134.	7.1	56
79	Electrostatic Interactions of Fluorescent Molecules with Dielectric Interfaces Studied by Total Internal Reflection Fluorescence Correlation Spectroscopy. International Journal of Molecular Sciences, 2010, 11, 386-406.	4.1	15
80	Quenching of Triplet State Fluorophores for Studying Diffusion-Mediated Reactions in Lipid Membranes. Biophysical Journal, 2010, 99, 3821-3830.	0.5	19
81	Inverse-Fluorescence Cross-Correlation Spectroscopy. Analytical Chemistry, 2010, 82, 5646-5651.	6.5	18
82	Transient State Monitoring by Total Internal Reflection Fluorescence Microscopy. Journal of Physical Chemistry B, 2010, 114, 4035-4046.	2.6	21
83	Recovery of Photoinduced Reversible Dark States Utilized for Molecular Diffusion Measurements. Analytical Chemistry, 2010, 82, 9998-10005.	6.5	7
84	Fluorescence Flicker as a Read-out in FCS: Principles, Applications and Further Developments. Springer Series in Chemical Physics, 2010, , 155-172.	0.2	0
85	Transient state microscopy: a new tool for biomolecular imaging. , 2009, , .		O
86	Modulation Filtering Enables Removal of Spikes in Fluorescence Correlation Spectroscopy Measurements without Affecting the Temporal Information. Journal of Physical Chemistry B, 2009, 113, 8752-8757.	2.6	6
87	Inverse-Fluorescence Correlation Spectroscopy. Analytical Chemistry, 2009, 81, 9209-9215.	6.5	30
88	Lateral Proton Transfer between the Membrane and a Membrane Protein. Biochemistry, 2009, 48, 2173-2179.	2.5	30
89	Triplet-State Investigations of Fluorescent Dyes at Dielectric Interfaces Using Total Internal Reflection Fluorescence Correlation Spectroscopy. Journal of Physical Chemistry A, 2009, 113, 5554-5566.	2.5	31
90	Fluorescence cross-correlation spectroscopy of a pH-sensitive ratiometric dye for molecular proton exchange studies. Physical Chemistry Chemical Physics, 2009, 11, 4410.	2.8	7

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91	Fate of Excitations in Conjugated Polymers: Single-Molecule Spectroscopy Reveals Nonemissive "Dark― Regions in MEH-PPV Individual Chains. Nano Letters, 2009, 9, 4456-4461.	9.1	62
92	Modulated or alternating excitation in fluorescence correlation spectroscopy. , 2009, , .		0
93	Characterization of New Fluorescent Labels for Ultrahigh Resolution Microscopy. , 2009, , .		0
94	Protein–surfactant interactions at hydrophobic interfaces studied with total internal reflection fluorescence correlation spectroscopy (TIR-FCS). Journal of Colloid and Interface Science, 2008, 317, 449-457.	9.4	37
95	Characterization of new fluorescent labels for ultra-high resolution microscopy. Photochemical and Photobiological Sciences, 2008, 7, 1378.	2.9	30
96	Modulated Fluorescence Correlation Spectroscopy with Complete Time Range Information. Biophysical Journal, 2008, 94, 977-985.	0.5	16
97	Transient State Imaging for Microenvironmental Monitoring by Laser Scanning Microscopy. Analytical Chemistry, 2008, 80, 9589-9596.	6.5	43
98	Dynamic disorder in horseradish peroxidase observed with total internal reflection fluorescence correlation spectroscopy. Optics Express, 2007, 15, 5366.	3.4	35
99	Monitoring Kinetics of Highly Environment Sensitive States of Fluorescent Molecules by Modulated Excitation and Time-Averaged Fluorescence Intensity Recording. Analytical Chemistry, 2007, 79, 3330-3341.	6.5	71
100	Strategies to Improve Photostabilities in Ultrasensitive Fluorescence Spectroscopy. Journal of Physical Chemistry A, 2007, 111, 429-440.	2.5	207
101	Single-Molecule Detection and Identification of Multiple Species by Multiparameter Fluorescence Detection. Analytical Chemistry, 2006, 78, 2039-2050.	6.5	203
102	Analysis of Photobleaching in Single-Molecule Multicolor Excitation and FÃ $\P$ rster Resonance Energy Transfer Measurements. Journal of Physical Chemistry A, 2006, 110, 2979-2995.	2.5	139
103	Dual-color total internal reflection fluorescence cross-correlation spectroscopy. Journal of Biomedical Optics, 2006, 11, 040502.	2.6	31
104	Localized proton microcircuits at the biological membrane-water interface. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19766-19770.	7.1	132
105	FCS cell surface measurementsâ€"Photophysical limitations and consequences on molecular ensembles with heterogenic mobilities. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2005, 68A, 101-112.	1.5	19
106	Measuring Hearing Organ Vibration Patterns with Confocal Microscopy and Optical Flow. Biophysical Journal, 2004, 86, 535-543.	0.5	26
107	Single-molecule fluorescence resonance energy transfer reveals a dynamic equilibrium between closed and open conformations of syntaxin 1. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 15516-15521.	7.1	268
108	Two New Concepts to Measure Fluorescence Resonance Energy Transfer via Fluorescence Correlation Spectroscopy:  Theory and Experimental Realizations. Journal of Physical Chemistry A, 2001, 105, 6851-6866.	2.5	93

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109	Fluorescence correlation spectroscopy of flavins and flavoenzymes: photochemical and photophysical aspects. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2001, 57, 2135-2144.	3.9	64
110	Photophysical Aspects of FCS Measurements. Springer Series in Chemical Physics, 2001, , 276-301.	0.2	10
111	Characterization of Photoinduced Isomerization and Back-Isomerization of the Cyanine Dye Cy5 by Fluorescence Correlation Spectroscopy. Journal of Physical Chemistry A, 2000, 104, 6416-6428.	2.5	347
112	Manipulation and characterization of photo-induced transient states of Merocyanine 540 by fluorescence correlation spectroscopy. Physical Chemistry Chemical Physics, 2000, 2, 3435-3441.	2.8	66
113	Photostability of Fluorescent Dyes for Single-Molecule Spectroscopy: Mechanisms and Experimental Methods for Estimating Photobleaching in Aqueous Solution. , 1999, , 193-240.		54
114	Photodynamic properties of green fluorescent proteins investigated by fluorescence correlation spectroscopy. Chemical Physics, 1999, 250, 171-186.	1.9	136
115	Protonation kinetics of GFP and FITC investigated by FCS â€" aspects of the use of fluorescent indicators for measuring pH. Chemical Physics, 1999, 249, 259-271.	1.9	88
116	Photobleaching of Fluorescent Dyes under Conditions Used for Single-Molecule Detection:Â Evidence of Two-Step Photolysis. Analytical Chemistry, 1998, 70, 2651-2659.	6.5	625
117	Fluorescence correlation spectroscopy as a tool to investigate chemical reactions in solutions and on cell surfaces. Cellular and Molecular Biology, 1998, 44, 857-79.	0.9	96
118	Fast interactions between Rh6G and dGTP in water studied by fluorescence correlation spectroscopy. Chemical Physics, 1997, 216, 417-426.	1.9	108
119	Application of the antibunching in dye fluorescence: measuringthe excitation rates in solution. Chemical Physics, 1997, 218, 191-198.	1.9	54
120	Mechanisms of photobleaching investigated by fluorescence correlation spectroscopy. Bioimaging, 1996, 4, 149-157.	1.3	79
121	Fluorescence correlation spectrometry of the interaction kinetics of tetramethylrhodamin α-bungarotoxin with Torpedo californica acetylcholine receptor. Biophysical Chemistry, 1996, 58, 3-12.	2.8	149
122	Mechanisms of photobleaching investigated by fluorescence correlation spectroscopy. Bioimaging, 1996, 4, 149-157.	1.3	149
123	Fluorescence correlation spectroscopy of triplet states in solution: a theoretical and experimental study. The Journal of Physical Chemistry, 1995, 99, 13368-13379.	2.9	719
124	Triplet-state monitoring by fluorescence correlation spectroscopy. Journal of Fluorescence, 1994, 4, 255-258.	2.5	176
125	Fluorescence methods to study lipid-protein association: The interaction of protein kinase C with lipid-loaded mixed micelles. Journal of Fluorescence, 1994, 4, 377-383.	2.5	9
126	Fluorescence correlation spectroscopy with high count rate and low background: analysis of translational diffusion. European Biophysics Journal, 1993, 22, 169.	2.2	882

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127	Conceptual Basis of Fluorescence Correlation Spectroscopy and Related Techniques as Tools in Bioscience., 0,, 69-120.		26