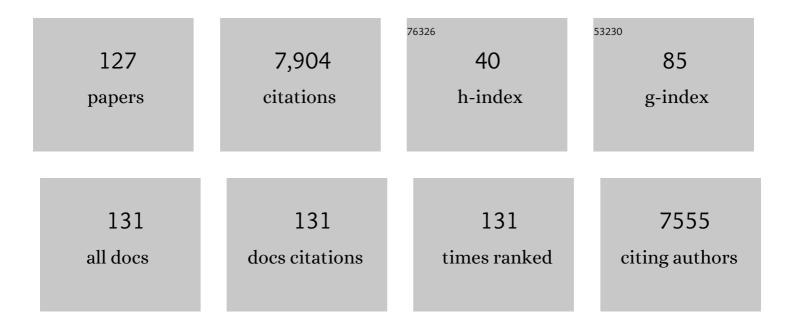
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Fluorescence correlation spectroscopy with high count rate and low background: analysis of translational diffusion. European Biophysics Journal, 1993, 22, 169.	2.2	882
2	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
3	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
4	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
5	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
6	Stimulated Emission Depletion Microscopy. Chemical Reviews, 2017, 117, 7377-7427.	47.7	226
7	Strategies to Improve Photostabilities in Ultrasensitive Fluorescence Spectroscopy. Journal of Physical Chemistry A, 2007, 111, 429-440.	2.5	207
8	Single-Molecule Detection and Identification of Multiple Species by Multiparameter Fluorescence Detection. Analytical Chemistry, 2006, 78, 2039-2050.	6.5	203
9	Triplet-state monitoring by fluorescence correlation spectroscopy. Journal of Fluorescence, 1994, 4, 255-258.	2.5	176
10	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
11	Mechanisms of photobleaching investigated by fluorescence correlation spectroscopy. Bioimaging, 1996, 4, 149-157.	1.3	149
12	Analysis of Photobleaching in Single-Molecule Multicolor Excitation and Förster Resonance Energy Transfer Measurements. Journal of Physical Chemistry A, 2006, 110, 2979-2995.	2.5	139
13	Photodynamic properties of green fluorescent proteins investigated by fluorescence correlation spectroscopy. Chemical Physics, 1999, 250, 171-186.	1.9	136
14	Sequential pH-driven dimerization and stabilization of the N-terminal domain enables rapid spider silk formation. Nature Communications, 2014, 5, 3254.	12.8	134
15	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
16	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
17	Fast interactions between Rh6G and dGTP in water studied by fluorescence correlation spectroscopy. Chemical Physics, 1997, 216, 417-426.	1.9	108
18	LytA, Major Autolysin of Streptococcus pneumoniae, Requires Access to Nascent Peptidoglycan. Journal of Biological Chemistry, 2012, 287, 11018-11029.	3.4	107

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19	Iodide as a Fluorescence Quencher and Promoter—Mechanisms and Possible Implications. Journal of Physical Chemistry B, 2010, 114, 11282-11291.	2.6	98
20	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
21	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
22	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
23	Protonation kinetics of GFP and FITC investigated by FCS — aspects of the use of fluorescent indicators for measuring pH. Chemical Physics, 1999, 249, 259-271.	1.9	88
24	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
25	Mechanisms of photobleaching investigated by fluorescence correlation spectroscopy. Bioimaging, 1996, 4, 149-157.	1.3	79
26	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
27	On the decay time of upconversion luminescence. Nanoscale, 2019, 11, 4959-4969.	5.6	76
28	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
29	Spatial distribution of Na+-K+-ATPase in dendritic spines dissected by nanoscale superresolution STED microscopy. BMC Neuroscience, 2011, 12, 16.	1.9	67
30	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
31	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
32	Migrating photon avalanche in different emitters at the nanoscale enables 46th-order optical nonlinearity. Nature Nanotechnology, 2022, 17, 524-530.	31.5	63
33	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
34	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
35	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
36	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

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37	Application of the antibunching in dye fluorescence: measuringthe excitation rates in solution. Chemical Physics, 1997, 218, 191-198.	1.9	54
38	Photostability of Fluorescent Dyes for Single-Molecule Spectroscopy: Mechanisms and Experimental Methods for Estimating Photobleaching in Aqueous Solution. , 1999, , 193-240.		54
39	Highly Sensitive FRET-FCS Detects Amyloid β-Peptide Oligomers in Solution at Physiological Concentrations. Analytical Chemistry, 2015, 87, 11700-11705.	6.5	49
40	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
41	Transient State Imaging for Microenvironmental Monitoring by Laser Scanning Microscopy. Analytical Chemistry, 2008, 80, 9589-9596.	6.5	43
42	Fast upconversion super-resolution microscopy with 10 μs per pixel dwell times. Nanoscale, 2019, 11, 1563-1569.	5.6	43
43	Nearest neighbor analysis of dopamine D1 receptors and Na ⁺ â€K ⁺ â€ATPases in dendritic spines dissected by STED microscopy. Microscopy Research and Technique, 2012, 75, 220-228.	2.2	42
44	The lateral distance between a proton pump and ATP synthase determines the ATP-synthesis rate. Scientific Reports, 2017, 7, 2926.	3.3	41
45	Fluorescence-based transient state monitoring for biomolecular spectroscopy and imaging. Journal of the Royal Society Interface, 2010, 7, 1135-1144.	3.4	38
46	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
47	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
48	SLC10A4 Is a Vesicular Amine-Associated Transporter Modulating Dopamine Homeostasis. Biological Psychiatry, 2015, 77, 526-536.	1.3	37
49	Platelet protein biomarker panel for ovarian cancer diagnosis. Biomarker Research, 2018, 6, 2.	6.8	36
50	Dynamic disorder in horseradish peroxidase observed with total internal reflection fluorescence correlation spectroscopy. Optics Express, 2007, 15, 5366.	3.4	35
51	<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
52	Protonation Dynamics on Lipid Nanodiscs: Influence of the Membrane Surface Area and External Buffers. Biophysical Journal, 2016, 110, 1993-2003.	0.5	34
53	Dual-color total internal reflection fluorescence cross-correlation spectroscopy. Journal of Biomedical Optics, 2006, 11, 040502.	2.6	31
54	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

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55	Characterization of the Role of the Malate Dehydrogenases to Lung Tumor Cell Survival. Journal of Cancer, 2017, 8, 2088-2096.	2.5	31
56	Characterization of new fluorescent labels for ultra-high resolution microscopy. Photochemical and Photobiological Sciences, 2008, 7, 1378.	2.9	30
57	Inverse-Fluorescence Correlation Spectroscopy. Analytical Chemistry, 2009, 81, 9209-9215.	6.5	30
58	Lateral Proton Transfer between the Membrane and a Membrane Protein. Biochemistry, 2009, 48, 2173-2179.	2.5	30
59	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
60	Overtone Vibrational Transition-Induced Lanthanide Excited-State Quenching in Yb ³⁺ /Er ³⁺ -Doped Upconversion Nanocrystals. ACS Nano, 2018, 12, 10572-10575.	14.6	29
61	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
62	Fluorescence Nanoscopy of Platelets Resolves Platelet‣tate Specific Storage, Release and Uptake of Proteins, Opening up Future Diagnostic Applications. Advanced Healthcare Materials, 2012, 1, 707-713.	7.6	27
63	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
64	dNTP-dependent Conformational Transitions in the Fingers Subdomain of Klentaq1 DNA Polymerase. Journal of Biological Chemistry, 2013, 288, 13575-13591.	3.4	27
65	Conceptual Basis of Fluorescence Correlation Spectroscopy and Related Techniques as Tools in Bioscience. , 0, , 69-120.		26
66	Measuring Hearing Organ Vibration Patterns with Confocal Microscopy and Optical Flow. Biophysical Journal, 2004, 86, 535-543.	0.5	26
67	STED microscopy—towards broadened use and scope of applications. Current Opinion in Chemical Biology, 2014, 20, 127-133.	6.1	26
68	Spatial Distribution of DARPP-32 in Dendritic Spines. PLoS ONE, 2013, 8, e75155.	2.5	25
69	Transient state microscopy probes patterns of altered oxygen consumption in cancer cells. FEBS Journal, 2014, 281, 1317-1332.	4.7	24
70	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
71	Rho GTPases link cellular contractile force to the density and distribution of nanoscale adhesions. FASEB Journal, 2012, 26, 2374-2382.	0.5	22
72	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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73	Transient State Monitoring by Total Internal Reflection Fluorescence Microscopy. Journal of Physical Chemistry B, 2010, 114, 4035-4046.	2.6	21
74	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
75	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
76	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
77	Achieving low-power single-wavelength-pair nanoscopy with NIR-II continuous-wave laser for multi-chromatic probes. Nature Communications, 2022, 13, .	12.8	20
78	FCS cell surface measurements—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
79	Quenching of Triplet State Fluorophores for Studying Diffusion-Mediated Reactions in Lipid Membranes. Biophysical Journal, 2010, 99, 3821-3830.	0.5	19
80	Fluorescence correlation spectroscopy diffusion laws in the presence of moving nanodomains. Journal Physics D: Applied Physics, 2016, 49, 114002.	2.8	19
81	Inverse-Fluorescence Cross-Correlation Spectroscopy. Analytical Chemistry, 2010, 82, 5646-5651.	6.5	18
82	Fluorescence-based characterization of non-fluorescent transient states of tryptophan – prospects for protein conformation and interaction studies. Scientific Reports, 2016, 6, 35052.	3.3	18
83	Modulated Fluorescence Correlation Spectroscopy with Complete Time Range Information. Biophysical Journal, 2008, 94, 977-985.	0.5	16
84	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
85	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
86	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
87	Fluorescent Probes for STED Optical Nanoscopy. Nanomaterials, 2022, 12, 21.	4.1	15
88	Neuronal death in pneumococcal meningitis is triggered by pneumolysin and RrgA interactions with β-actin. PLoS Pathogens, 2021, 17, e1009432.	4.7	14
89	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
90	Nanoscale localization of proteins within focal adhesions indicates discrete functional assemblies with selective forceâ€dependence. FEBS Journal, 2018, 285, 1635-1652.	4.7	12

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91	Interactions Between a Luminescent Conjugated Oligoelectrolyte and Insulin During Early Phases of Amyloid Formation. Macromolecular Bioscience, 2011, 11, 1120-1127.	4.1	11
92	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
93	Labelâ€Free Fluctuation Spectroscopy Based on Coherent Antiâ€Stokes Raman Scattering from Bulk Water Molecules. ChemPhysChem, 2016, 17, 1025-1033.	2.1	11
94	Phosphatidylserine positive microparticles improve hemostasis in in-vitro hemophilia A plasma models. Scientific Reports, 2020, 10, 7871.	3.3	11
95	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
96	Local redox conditions in cells imaged via non-fluorescent transient states of NAD(P)H. Scientific Reports, 2019, 9, 15070.	3.3	10
97	Photophysical Aspects of FCS Measurements. Springer Series in Chemical Physics, 2001, , 276-301.	0.2	10
98	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
99	Chromatinin situproximity (ChrISP): Single-cell analysis of chromatin proximities at a high resolution. BioTechniques, 2014, 56, 117-8, 120-4.	1.8	9
100	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
101	Imaging of intermittent lipid-receptor interactions reflects changes in live cell membranes upon agonist-receptor binding. Scientific Reports, 2019, 9, 18133.	3.3	8
102	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
103	Recovery of Photoinduced Reversible Dark States Utilized for Molecular Diffusion Measurements. Analytical Chemistry, 2010, 82, 9998-10005.	6.5	7
104	Scanning inverse fluorescence correlation spectroscopy. Optics Express, 2014, 22, 13073.	3.4	7
105	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
106	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
107	Functional interactions between nitrite reductase and nitric oxide reductase from Paracoccus denitrificans. Scientific Reports, 2019, 9, 17234.	3.3	7
108	Inverse-fluorescence correlation spectroscopy more information and less labeling. Frontiers in Bioscience - Scholar, 2011, S3, 385-392.	2.1	7

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109	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
110	Estimating Zâ€ring radius and contraction in dividing <i>Escherichia coli</i> . Molecular Microbiology, 2010, 76, 151-158.	2.5	6
111	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
112	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
113	Change in the emission saturation and kinetics of upconversion nanoparticles under different light irradiations. Optical Materials, 2019, 97, 109389.	3.6	5
114	Dark States in Ionic Oligothiophene Bioprobes—Evidence from Fluorescence Correlation Spectroscopy and Dynamic Light Scattering. Journal of Physical Chemistry B, 2014, 118, 5924-5933.	2.6	4
115	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
116	Coincident Fluorescenceâ€Burst Analysis of the Loading Yields of Exosomeâ€Mimetic Nanovesicles with Fluorescently‣abeled Cargo Molecules. Small, 2022, , 2106241.	10.0	4
117	Cumulative effects of photobleaching in volumetric STED imaging—artefacts and possible benefits. Methods and Applications in Fluorescence, 2021, 9, 015003.	2.3	3
118	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
119	Studying Ion Exchange in Solution and at Biological Membranes by FCS. Methods in Enzymology, 2013, 519, 231-252.	1.0	2
120	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
121	Photoisomerization of DiD: Molecular Dynamics Calculations Reveal the Influence of Tail Lengths. Journal of Physical Chemistry C, 2020, 124, 5829-5837.	3.1	1
122	SATB1, genomic instability and Gleason grading constitute a novel risk score for prostate cancer. Scientific Reports, 2021, 11, 24446.	3.3	1
123	Transient state microscopy: a new tool for biomolecular imaging. , 2009, , .		0
124	Modulated or alternating excitation in fluorescence correlation spectroscopy. , 2009, , .		0
125	Analysis of Rho GTPase-Induced Localization of Nanoscale Adhesions Using Fluorescence Nanoscopy. Methods in Molecular Biology, 2014, 1120, 339-357.	0.9	0
126	Characterization of New Fluorescent Labels for Ultrahigh Resolution Microscopy. , 2009, , .		0

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127	Fluorescence Flicker as a Read-out in FCS: Principles, Applications and Further Developments. Springer Series in Chemical Physics, 2010, , 155-172.	0.2	0