

Enrico Gratton

List of Publications by Year in descending order

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552
papers

42,899
citations

1371

108
h-index

3650

180
g-index

570
all docs

570
docs citations

570
times ranked

31544
citing authors

#	ARTICLE	IF	CITATIONS
1	Lipid Rafts Reconstituted in Model Membranes. <i>Biophysical Journal</i> , 2001, 80, 1417-1428.	0.5	1,298
2	The Phasor Approach to Fluorescence Lifetime Imaging Analysis. <i>Biophysical Journal</i> , 2008, 94, L14-L16.	0.5	913
3	Quantitation of lipid phases in phospholipid vesicles by the generalized polarization of Laurdan fluorescence. <i>Biophysical Journal</i> , 1991, 60, 179-189.	0.5	797
4	Phase fluctuation in phospholipid membranes revealed by Laurdan fluorescence. <i>Biophysical Journal</i> , 1990, 57, 1179-1186.	0.5	709
5	The Photon Counting Histogram in Fluorescence Fluctuation Spectroscopy. <i>Biophysical Journal</i> , 1999, 77, 553-567.	0.5	704
6	Laurdan and Prodan as Polarity-Sensitive Fluorescent Membrane Probes. <i>Journal of Fluorescence</i> , 1998, 8, 365-373.	2.5	551
7	A continuously variable frequency cross-correlation phase fluorometer with picosecond resolution. <i>Biophysical Journal</i> , 1983, 44, 315-324.	0.5	509
8	Visualizing lipid structure and raft domains in living cells with two-photon microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 15554-15559.	7.1	486
9	Analysis of fluorescence decay kinetics from variable-frequency phase shift and modulation data. <i>Biophysical Journal</i> , 1984, 46, 463-477.	0.5	472
10	Multiphoton excitation fluorescence microscopy and spectroscopy of in vivo human skin. <i>Biophysical Journal</i> , 1997, 72, 2405-2412.	0.5	471
11	Two-photon fluorescence correlation spectroscopy: method and application to the intracellular environment. <i>Biophysical Journal</i> , 1995, 68, 694-701.	0.5	469
12	Water and globular proteins. <i>Trends in Biochemical Sciences</i> , 1983, 8, 18-22.	7.5	436
13	Fluid Shear Stress on Endothelial Cells Modulates Mechanical Tension across VE-Cadherin and PECAM-1. <i>Current Biology</i> , 2013, 23, 1024-1030.	3.9	431
14	Measuring Fast Dynamics in Solutions and Cells with a Laser Scanning Microscope. <i>Biophysical Journal</i> , 2005, 89, 1317-1327.	0.5	428
15	Mapping the Number of Molecules and Brightness in the Laser Scanning Microscope. <i>Biophysical Journal</i> , 2008, 94, 2320-2332.	0.5	422
16	The Measurement and Analysis of Heterogeneous Emissions by Multifrequency Phase and Modulation Fluorometry. <i>Applied Spectroscopy Reviews</i> , 1984, 20, 55-106.	6.7	410
17	Fluorescence Lifetime Standards for Time and Frequency Domain Fluorescence Spectroscopy. <i>Analytical Chemistry</i> , 2007, 79, 2137-2149.	6.5	397
18	Two Photon Fluorescence Microscopy of Coexisting Lipid Domains in Giant Unilamellar Vesicles of Binary Phospholipid Mixtures. <i>Biophysical Journal</i> , 2000, 78, 290-305.	0.5	372

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19	Phasor approach to fluorescence lifetime microscopy distinguishes different metabolic states of germ cells in a live tissue. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13582-13587.	7.1	370
20	Precision and accuracy of single-molecule FRET measurements—a multi-laboratory benchmark study. Nature Methods, 2018, 15, 669-676.	19.0	350
21	Wnt signaling directs a metabolic program of glycolysis and angiogenesis in colon cancer. EMBO Journal, 2014, 33, 1454-1473.	7.8	348
22	Frequency-domain techniques enhance optical mammography: Initial clinical results. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 6468-6473.	7.1	345
23	Investigation of human brain hemodynamics by simultaneous near-infrared spectroscopy and functional magnetic resonance imaging. Medical Physics, 2001, 28, 521-527.	3.0	337
24	Possible correlation between blood glucose concentration and the reduced scattering coefficient of tissues in the near infrared. Optics Letters, 1994, 19, 2062.	3.3	325
25	Fluorescence lifetime distributions in proteins. Biophysical Journal, 1987, 51, 597-604.	0.5	316
26	Membrane lipid domains and dynamics as detected by Laurdan fluorescence. Journal of Fluorescence, 1995, 5, 59-69.	2.5	313
27	IFITM Proteins Restrict Viral Membrane Hemifusion. PLoS Pathogens, 2013, 9, e1003124.	4.7	310
28	Interpretation of fluorescence decays in proteins using continuous lifetime distributions. Biophysical Journal, 1987, 51, 925-936.	0.5	306
29	3D microtumors in vitro supported by perfused vascular networks. Scientific Reports, 2016, 6, 31589.	3.3	301
30	Multifrequency Phase and Modulation Fluorometry. Annual Review of Biophysics and Bioengineering, 1984, 13, 105-124.	5.3	292
31	Resolvability of fluorescence lifetime distributions using phase fluorometry. Biophysical Journal, 1987, 51, 587-596.	0.5	291
32	Two-photon fluorescence microscopy of laurdan generalized polarization domains in model and natural membranes. Biophysical Journal, 1997, 72, 2413-2429.	0.5	281
33	Cellular response to near-infrared femtosecond laser pulses in two-photon microscopes. Optics Letters, 1997, 22, 135.	3.3	278
34	Spectroscopic evidence for Davydov-like solitons in acetanilide. Physical Review B, 1984, 30, 4689-4702.	3.2	276
35	Resolution of mixtures of fluorophores using variable-frequency phase and modulation data. Biophysical Journal, 1984, 46, 479-486.	0.5	276
36	3-D Particle Tracking in a Two-Photon Microscope: Application to the Study of Molecular Dynamics in Cells. Biophysical Journal, 2005, 88, 2919-2928.	0.5	252

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37	Two-Photon Fluorescence Lifetime Imaging of the Skin Stratum Corneum pH Gradient. <i>Biophysical Journal</i> , 2002, 83, 1682-1690.	0.5	249
38	Two-Photon Fluorescence Microscopy Observation of Shape Changes at the Phase Transition in Phospholipid Giant Unilamellar Vesicles. <i>Biophysical Journal</i> , 1999, 77, 2090-2101.	0.5	248
39	Rapid detection of single bacteria in unprocessed blood using Integrated Comprehensive Droplet Digital Detection. <i>Nature Communications</i> , 2014, 5, 5427.	12.8	248
40	Fluorescence lifetime imaging for the two-photon microscope: time-domain and frequency-domain methods. <i>Journal of Biomedical Optics</i> , 2003, 8, 381.	2.6	245
41	Phase measurement of light absorption and scatter in human tissue. <i>Review of Scientific Instruments</i> , 1998, 69, 3457-3481.	1.3	238
42	Molecular Brightness Characterization of EGFP In Vivo by Fluorescence Fluctuation Spectroscopy. <i>Biophysical Journal</i> , 2002, 82, 133-144.	0.5	238
43	On-line optical imaging of the human brain with 160-ms temporal resolution. <i>Optics Express</i> , 2000, 6, 49.	3.4	226
44	Influence of cholesterol on phospholipid bilayers phase domains as detected by Laurdan fluorescence. <i>Biophysical Journal</i> , 1994, 66, 120-132.	0.5	225
45	LXRs link metabolism to inflammation through Abca1-dependent regulation of membrane composition and TLR signaling. <i>ELife</i> , 2015, 4, e08009.	6.0	219
46	Fit-free analysis of fluorescence lifetime imaging data using the phasor approach. <i>Nature Protocols</i> , 2018, 13, 1979-2004.	12.0	217
47	Enzyme Dynamics: The Statistical Physics Approach. <i>Annual Review of Biophysics and Bioengineering</i> , 1979, 8, 69-97.	5.3	215
48	A Correlation between Lipid Domain Shape and Binary Phospholipid Mixture Composition in Free Standing Bilayers: A Two-Photon Fluorescence Microscopy Study. <i>Biophysical Journal</i> , 2000, 79, 434-447.	0.5	212
49	Chromatin Dynamics in Interphase Cells Revealed by Tracking in a Two-Photon Excitation Microscope. <i>Biophysical Journal</i> , 2005, 89, 4275-4285.	0.5	211
50	Endothelial adhesion receptors are recruited to adherent leukocytes by inclusion in preformed tetraspanin nanoplatforms. <i>Journal of Cell Biology</i> , 2008, 183, 527-542.	5.2	211
51	Metabolic trajectory of cellular differentiation in small intestine by Phasor Fluorescence Lifetime Microscopy of NADH. <i>Scientific Reports</i> , 2012, 2, 568.	3.3	209
52	Correlation of IR spectroscopic, heat capacity, diamagnetic susceptibility and enzymatic measurements on lysozyme powder. <i>Nature</i> , 1980, 284, 572-573.	27.8	199
53	Fluctuation Correlation Spectroscopy with a Laser-Scanning Microscope: Exploiting the Hidden Time Structure. <i>Biophysical Journal</i> , 2005, 88, L33-L36.	0.5	195
54	Statistical Time Events in Enzymes: A Physical Assessment. <i>CRC Critical Reviews in Biochemistry</i> , 1975, 3, 141-164.	2.0	193

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55	Cholesterol modifies water concentration and dynamics in phospholipid bilayers: a fluorescence study using Laurdan probe. <i>Biophysical Journal</i> , 1994, 66, 763-768.	0.5	193
56	NHE1 Regulates the Stratum Corneum Permeability Barrier Homeostasis. <i>Journal of Biological Chemistry</i> , 2002, 277, 47399-47406.	3.4	185
57	Ligand binding to somatostatin receptors induces receptor-specific oligomer formation in live cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3294-3299.	7.1	184
58	Noninvasive determination of the optical properties of adult brain: near-infrared spectroscopy approach. <i>Journal of Biomedical Optics</i> , 2004, 9, 221.	2.6	184
59	Organelle Transport along Microtubules in <i>Xenopus</i> Melanophores: Evidence for Cooperation between Multiple Motors. <i>Biophysical Journal</i> , 2006, 90, 318-327.	0.5	184
60	Different Time Evolution of Oxyhemoglobin and Deoxyhemoglobin Concentration Changes in the Visual and Motor Cortices during Functional Stimulation: A Near-Infrared Spectroscopy Study. <i>NeuroImage</i> , 2002, 16, 704-712.	4.2	183
61	Resolving Heterogeneity on the Single Molecular Level with the Photon-Counting Histogram. <i>Biophysical Journal</i> , 2000, 78, 474-486.	0.5	182
62	Sunscreen enhancement of UV-induced reactive oxygen species in the skin. <i>Free Radical Biology and Medicine</i> , 2006, 41, 1205-1212.	2.9	182
63	Lessons in Fluctuation Correlation Spectroscopy. <i>Annual Review of Physical Chemistry</i> , 2011, 62, 645-668.	10.8	180
64	Spatial-Temporal Studies of Membrane Dynamics: Scanning Fluorescence Correlation Spectroscopy (SFCS). <i>Biophysical Journal</i> , 2004, 87, 1260-1267.	0.5	178
65	Probing short-range protein Brownian motion in the cytoplasm of living cells. <i>Nature Communications</i> , 2014, 5, 5891.	12.8	175
66	Image Correlation Spectroscopy of Multiphoton Images Correlates with Collagen Mechanical Properties. <i>Biophysical Journal</i> , 2008, 94, 2361-2373.	0.5	168
67	A novel fluorescence lifetime imaging system that optimizes photon efficiency. <i>Microscopy Research and Technique</i> , 2008, 71, 201-213.	2.2	166
68	Phasor Fluorescence Lifetime Microscopy of Free and Protein-Bound NADH Reveals Neural Stem Cell Differentiation Potential. <i>PLoS ONE</i> , 2012, 7, e48014.	2.5	166
69	Diffusion of a polymer "pancake". <i>Nature</i> , 2000, 406, 146-146.	27.8	164
70	Laurdan generalized polarization fluctuations measures membrane packing micro-heterogeneity in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7314-7319.	7.1	164
71	Infrared Absorption in Acetanilide by Solitons. <i>Physical Review Letters</i> , 1983, 51, 304-307.	7.8	162
72	Raster image correlation spectroscopy (RICS) for measuring fast protein dynamics and concentrations with a commercial laser scanning confocal microscope. <i>Journal of Microscopy</i> , 2008, 229, 78-91.	1.8	162

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73	Adiabatic compressibility of globular proteins.. Proceedings of the National Academy of Sciences of the United States of America, 1983, 80, 750-754.	7.1	160
74	Fast spatiotemporal correlation spectroscopy to determine protein lateral diffusion laws in live cell membranes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12307-12312.	7.1	160
75	Time-resolved fluorescence microscopy using two-photon excitation. Bioimaging, 1995, 3, 49-63.	1.3	159
76	Stoichiometry of molecular complexes at adhesions in living cells. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2170-2175.	7.1	158
77	The intracellular trafficking mechanism of Lipofectamine-based transfection reagents and its implication for gene delivery. Scientific Reports, 2016, 6, 25879.	3.3	158
78	Measurements of scattering and absorption changes in muscle and brain. Philosophical Transactions of the Royal Society B: Biological Sciences, 1997, 352, 727-735.	4.0	153
79	Prodan as a Membrane Surface Fluorescence Probe: Partitioning between Water and Phospholipid Phases. Biophysical Journal, 1998, 74, 1984-1993.	0.5	153
80	Raster image correlation spectroscopy in live cells. Nature Protocols, 2010, 5, 1761-1774.	12.0	153
81	Near-infrared study of fluctuations in cerebral hemodynamics during rest and motor stimulation: Temporal analysis and spatial mapping. Medical Physics, 2000, 27, 801-815.	3.0	152
82	Scanning two-photon fluctuation correlation spectroscopy: particle counting measurements for detection of molecular aggregation. Biophysical Journal, 1996, 71, 410-420.	0.5	150
83	Stimulated blue emission in reconstituted films of ultrasmall silicon nanoparticles. Applied Physics Letters, 2001, 78, 1131-1133.	3.3	149
84	Free Extracellular Diffusion Creates the Dpp Morphogen Gradient of the Drosophila Wing Disc. Current Biology, 2012, 22, 668-675.	3.9	144
85	Fluorescence generalized polarization of cell membranes: a two-photon scanning microscopy approach. Biophysical Journal, 1996, 70, 626-636.	0.5	143
86	Exploring dynamics in living cells by tracking single particles. Cell Biochemistry and Biophysics, 2007, 48, 1-15.	1.8	143
87	Detection of luminescent single ultrasmall silicon nanoparticles using fluctuation correlation spectroscopy. Applied Physics Letters, 2000, 76, 1857-1859.	3.3	142
88	Lpcat3-dependent production of arachidonoyl phospholipids is a key determinant of triglyceride secretion. ELife, 2015, 4, .	6.0	142
89	Imaging Barriers to Diffusion by Pair Correlation Functions. Biophysical Journal, 2009, 97, 665-673.	0.5	139
90	Defining Epidermal Basal Cell States during Skin Homeostasis and Wound Healing Using Single-Cell Transcriptomics. Cell Reports, 2020, 30, 3932-3947.e6.	6.4	139

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91	Giant phospholipid vesicles: comparison among the whole lipid sample characteristics using different preparation methods. <i>Chemistry and Physics of Lipids</i> , 2000, 105, 135-147.	3.2	135
92	Paxillin Dynamics Measured during Adhesion Assembly and Disassembly by Correlation Spectroscopy. <i>Biophysical Journal</i> , 2008, 94, 2819-2831.	0.5	135
93	Laurdan Fluorescence Lifetime Discriminates Cholesterol Content from Changes in Fluidity in Living Cell Membranes. <i>Biophysical Journal</i> , 2013, 104, 1238-1247.	0.5	135
94	Two-photon excited lifetime imaging of autofluorescence in cells during UVA and NIR photostress. <i>Journal of Microscopy</i> , 1996, 183, 197-204.	1.8	135
95	FXR/TGR5 Dual Agonist Prevents Progression of Nephropathy in Diabetes and Obesity. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 118-137.	6.1	133
96	Surface Diffusion of Poly(ethylene glycol). <i>Macromolecules</i> , 2002, 35, 1776-1784.	4.8	130
97	Detecting Protein Complexes in Living Cells from Laser Scanning Confocal Image Sequences by the Cross Correlation Raster Image Spectroscopy Method. <i>Biophysical Journal</i> , 2009, 96, 707-716.	0.5	130
98	The roles of changes in deoxyhemoglobin concentration and regional cerebral blood volume in the fMRI BOLD signal. <i>NeuroImage</i> , 2003, 19, 1521-1531.	4.2	128
99	Integrin-Associated Complexes Form Hierarchically with Variable Stoichiometry in Nascent Adhesions. <i>Current Biology</i> , 2014, 24, 1845-1853.	3.9	128
100	Visualizing Association of N-Ras in Lipid Microdomains: Influence of Domain Structure and Interfacial Adsorption. <i>Journal of the American Chemical Society</i> , 2006, 128, 192-201.	13.7	125
101	Feasibility of intracranial near-infrared optical scanning. <i>Psychophysiology</i> , 1994, 31, 211-215.	2.4	124
102	Multiphoton Excitation Microscopy of <i>In Vivo</i> Human Skin: Functional and Morphological Optical Biopsy Based on Three-Dimensional Imaging, Lifetime Measurements and Fluorescence Spectroscopy. <i>Annals of the New York Academy of Sciences</i> , 1998, 838, 58-67.	3.8	120
103	A Multifrequency Phase Fluorometer Using the Harmonic Content of a Mode-Locked Laser. <i>Instrumentation Science and Technology</i> , 1985, 14, 225-250.	1.8	118
104	Fluorescence lifetime imaging by asynchronous pump-probe microscopy. <i>Biophysical Journal</i> , 1995, 69, 2234-2242.	0.5	118
105	<i>In Vivo</i> Single-Cell Detection of Metabolic Oscillations in Stem Cells. <i>Cell Reports</i> , 2015, 10, 1-7.	6.4	118
106	Fast and Localized Event-Related Optical Signals (EROS) in the Human Occipital Cortex: Comparisons with the Visual Evoked Potential and fMRI. <i>NeuroImage</i> , 1997, 6, 168-180.	4.2	117
107	Digital parallel acquisition in frequency domain fluorimetry. <i>Review of Scientific Instruments</i> , 1989, 60, 2929-2936.	1.3	116
108	Effect of hydrostatic pressure on water penetration and rotational dynamics in phospholipid-cholesterol bilayers. <i>Biophysical Journal</i> , 1997, 72, 1264-1277.	0.5	115

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109	Detection of fast neuronal signals in the motor cortex from functional near infrared spectroscopy measurements using independent component analysis. <i>Medical and Biological Engineering and Computing</i> , 2004, 42, 92-99.	2.8	114
110	High Density Lipoprotein-mediated Cholesterol Uptake and Targeting to Lipid Droplets in Intact L-cell Fibroblasts. <i>Journal of Biological Chemistry</i> , 2000, 275, 12769-12780.	3.4	112
111	Abrupt modifications of phospholipid bilayer properties at critical cholesterol concentrations. <i>Biophysical Journal</i> , 1995, 68, 1895-1902.	0.5	106
112	Multifrequency cross-correlation phase fluorometer using synchrotron radiation. <i>Review of Scientific Instruments</i> , 1984, 55, 486-494.	1.3	104
113	Fluorescence lifetime imaging of endogenous biomarker of oxidative stress. <i>Scientific Reports</i> , 2015, 5, 9848.	3.3	104
114	MODULATION AND DYNAMICS OF PHASE PROPERTIES IN PHOSPHOLIPID MIXTURES DETECTED BY LAURDAN FLUORESCENCE*. <i>Photochemistry and Photobiology</i> , 1993, 57, 403-410.	2.5	103
115	Analysis of diffusion and binding in cells using the RICS approach. <i>Microscopy Research and Technique</i> , 2009, 72, 323-332.	2.2	102
116	The Epidermal Ca ²⁺ Gradient: Measurement Using the Phasor Representation of Fluorescent Lifetime Imaging. <i>Biophysical Journal</i> , 2010, 98, 911-921.	0.5	102
117	A Model for the Interaction of 6-Lauroyl-2-(N,N-dimethylamino)naphthalene with Lipid Environments: Implications for Spectral Properties. <i>Photochemistry and Photobiology</i> , 1999, 70, 557.	2.5	102
118	A Model for the Interaction of 6-Lauroyl-2-(N,N-dimethylamino)naphthalene with Lipid Environments: Implications for Spectral Properties. <i>Photochemistry and Photobiology</i> , 1999, 70, 557-564.	2.5	101
119	[20] Giant vesicles, laurdan, and two-photon fluorescence microscopy: Evidence of lipid lateral separation in bilayers. <i>Methods in Enzymology</i> , 2003, 360, 481-500.	1.0	99
120	Organic nitrogen uptake by arbuscular mycorrhizal fungi in a boreal forest. <i>Soil Biology and Biochemistry</i> , 2012, 55, 7-13.	8.8	99
121	Mechanisms of phosphate transport. <i>Nature Reviews Nephrology</i> , 2019, 15, 482-500.	9.6	99
122	Frequency-domain optical mammography: Edge effect corrections. <i>Medical Physics</i> , 1996, 23, 149-157.	3.0	98
123	Two-photon fluorescence lifetime imaging microscopy of macrophage-mediated antigen processing. <i>Journal of Microscopy</i> , 1997, 185, 339-353.	1.8	98
124	Intestinal Phospholipid Remodeling Is Required for Dietary-Lipid Uptake and Survival on a High-Fat Diet. <i>Cell Metabolism</i> , 2016, 23, 492-504.	16.2	98
125	UTX condensation underlies its tumour-suppressive activity. <i>Nature</i> , 2021, 597, 726-731.	27.8	98
126	Rapid Changes of Optical Parameters in the Human Brain During a Tapping Task. <i>Journal of Cognitive Neuroscience</i> , 1995, 7, 446-456.	2.3	97

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127	Metabolic Reprogramming in Astrocytes Distinguishes Region-Specific Neuronal Susceptibility in Huntington Mice. <i>Cell Metabolism</i> , 2019, 29, 1258-1273.e11.	16.2	97
128	Biophysical properties of AKAP95 protein condensates regulate splicing and tumorigenesis. <i>Nature Cell Biology</i> , 2020, 22, 960-972.	10.3	97
129	Water Dynamics in Glycosphingolipid Aggregates Studied by LAURDAN Fluorescence. <i>Biophysical Journal</i> , 1998, 75, 331-341.	0.5	96
130	A Two-Step Path to Inclusion Formation of Huntingtin Peptides Revealed by Number and Brightness Analysis. <i>Biophysical Journal</i> , 2010, 98, 3078-3085.	0.5	96
131	Gigahertz photon density waves in a turbid medium: Theory and experiments. <i>Physical Review E</i> , 1996, 53, 2307-2319.	2.1	95
132	Encoding and decoding spatio-temporal information for super-resolution microscopy. <i>Nature Communications</i> , 2015, 6, 6701.	12.8	95
133	Steady-state and time resolved fluorescence of albumins interacting with N-oleylethanolamine, a component of the endogenous N-acylethanolamines. , 2000, 40, 39-48.		93
134	Scanning FCS, a novel method for three-dimensional particle tracking. <i>Biochemical Society Transactions</i> , 2003, 31, 997-1000.	3.4	93
135	Mitigating thermal mechanical damage potential during two-photon dermal imaging. <i>Journal of Biomedical Optics</i> , 2004, 9, 1265.	2.6	93
136	In vivo pair correlation analysis of EGFP intranuclear diffusion reveals DNA-dependent molecular flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16560-16565.	7.1	93
137	Fluorescence Fluctuation Spectroscopy. <i>Methods</i> , 1999, 19, 234-252.	3.8	92
138	A Two-Photon View of an Enzyme at Work: <i>Crotalus atrox</i> Venom PLA2 Interaction with Single-Lipid and Mixed-Lipid Giant Unilamellar Vesicles. <i>Biophysical Journal</i> , 2002, 82, 2232-2243.	0.5	92
139	Real-Time Nanomicroscopy via Three-Dimensional Single-Particle Tracking. <i>ChemPhysChem</i> , 2009, 10, 2458-2464.	2.1	92
140	Two-Photon Fluorescence Microscopy Studies of Bipolar Tetraether Giant Liposomes from Thermoacidophilic Archaeobacteria <i>Sulfolobus acidocaldarius</i> . <i>Biophysical Journal</i> , 2000, 79, 416-425.	0.5	88
141	Measurements of absolute concentrations of NADH in cells using the phasor FLIM method. <i>Biomedical Optics Express</i> , 2016, 7, 2441.	2.9	88
142	Phosphoinositide Specificity of and Mechanism of Lipid Domain Formation by Annexin A2-p11 Heterotetramer. <i>Journal of Biological Chemistry</i> , 2005, 280, 42831-42840.	3.4	87
143	Biosensor Förster resonance energy transfer detection by the phasor approach to fluorescence lifetime imaging microscopy. <i>Microscopy Research and Technique</i> , 2012, 75, 271-281.	2.2	86
144	Live-cell observation of cytosolic HIV-1 assembly onset reveals RNA-interacting Gag oligomers. <i>Journal of Cell Biology</i> , 2015, 210, 629-646.	5.2	86

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145	Optical Biopsy of In Vivo Human Skin: Multi-photon Excitation Microscopy. <i>Lasers in Medical Science</i> , 1998, 13, 196-203.	2.1	85
146	Functional Frequency-Domain Near-Infrared Spectroscopy Detects Fast Neuronal Signal in the Motor Cortex. <i>NeuroImage</i> , 2002, 17, 1868-1875.	4.2	85
147	[4] Fluorescence correlation spectroscopy. <i>Methods in Enzymology</i> , 2003, 361, 69-92.	1.0	83
148	Time-resolved fluorescence of DAPI in solution and bound to polydeoxynucleotides. <i>Biochemical and Biophysical Research Communications</i> , 1990, 170, 270-280.	2.1	82
149	Probing Ligand Protein Binding Equilibria with Fluorescence Fluctuation Spectroscopy. <i>Biophysical Journal</i> , 2000, 79, 1074-1084.	0.5	82
150	Determination of particle number and brightness using a laser scanning confocal microscope operating in the analog mode. <i>Microscopy Research and Technique</i> , 2008, 71, 69-81.	2.2	82
151	Host Cell Plasma Membrane Phosphatidylserine Regulates the Assembly and Budding of Ebola Virus. <i>Journal of Virology</i> , 2015, 89, 9440-9453.	3.4	82
152	Monomer-dimer dynamics and distribution of GPI-anchored uPAR are determined by cell surface protein assemblies. <i>Journal of Cell Biology</i> , 2007, 179, 1067-1082.	5.2	81
153	The Ebola Virus Matrix Protein Penetrates into the Plasma Membrane. <i>Journal of Biological Chemistry</i> , 2013, 288, 5779-5789.	3.4	81
154	Measurement of brain activity by near-infrared light. <i>Journal of Biomedical Optics</i> , 2005, 10, 011008.	2.6	80
155	Carboxyl functionalization of ultrasmall luminescent silicon nanoparticles through thermal hydrosilylation. <i>Journal of Materials Chemistry</i> , 2006, 16, 1421.	6.7	80
156	Dynamics of ANS Binding to Tuna Apomyoglobin Measured with Fluorescence Correlation Spectroscopy. <i>Biophysical Journal</i> , 2001, 81, 3510-3521.	0.5	79
157	Imaging Fibrosis and Separating Collagens using Second Harmonic Generation and Phasor Approach to Fluorescence Lifetime Imaging. <i>Scientific Reports</i> , 2015, 5, 13378.	3.3	79
158	Tracking transcription factor mobility and interaction in Arabidopsis roots with fluorescence correlation spectroscopy. <i>ELife</i> , 2016, 5, .	6.0	79
159	Title is missing!. <i>Journal of Fluorescence</i> , 2001, 11, 141-160.	2.5	78
160	Analysis of Molecular Concentration and Brightness from Fluorescence Fluctuation Data with an Electron Multiplied CCD Camera. <i>Biophysical Journal</i> , 2008, 95, 5385-5398.	0.5	78
161	Study of local cerebral hemodynamics by frequency-domain near-infrared spectroscopy and correlation with simultaneously acquired functional magnetic resonance imaging. <i>Optics Express</i> , 2001, 9, 417.	3.4	77
162	Concentration Independent Modulation of Local Micromechanics in a Fibrin Gel. <i>PLoS ONE</i> , 2011, 6, e20201.	2.5	76

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163	Rapid bacterial detection and antibiotic susceptibility testing in whole blood using one-step, high throughput blood digital PCR. <i>Lab on A Chip</i> , 2020, 20, 477-489.	6.0	75
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