Ingo Gregor

List of Publications by Year in descending order

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109 papers	4,125 citations	126907 33 h-index	128289 60 g-index
116 all docs	116 docs citations	116 times ranked	4586 citing authors

#	Article	IF	Citations
1	Fluorescence lifetime DNA-PAINT for multiplexed super-resolution imaging of cells. Communications Biology, 2022, 5, 38.	4.4	25
2	Modeling charge separation in charged nanochannels for single-molecule electrometry. Journal of Chemical Physics, 2022, 156, 105104.	3.0	0
3	Measuring Photophysical Transition Rates with Fluorescence Correlation Spectroscopy and Antibunching. Journal of Physical Chemistry Letters, 2022, 13, 4823-4830.	4.6	1
4	Opto-Electrostatic Determination of Nucleic Acid Double-Helix Dimensions and the Structure of the Moleculeâ€“Solvent Interface. Macromolecules, 2022, 55, 6200-6210.	4.8	4
5	Single-Molecule Fluorescence Lifetime Imaging Using Wide-Field and Confocal-Laser Scanning Microscopy: A Comparative Analysis. Nano Letters, 2022, 22, 6454-6461.	9.1	20
6	Atg21 organizes Atg8 lipidation at the contact of the vacuole with the phagophore. Autophagy, 2021, 17, 1458-1478.	9.1	23
7	Doubling the resolution of a confocal spinning-disk microscope using image scanning microscopy. Nature Protocols, 2021, 16, 164-181.	12.0	13
8	Graphene- and metal-induced energy transfer for single-molecule imaging and live-cell nanoscopy with (sub)-nanometer axial resolution. Nature Protocols, 2021, 16, 3695-3715.	12.0	30
9	Instant three-color multiplane fluorescence microscopy. Biophysical Reports, 2021, 1, 100001.	1.2	3
10	Electroviscous effect for a confined nanosphere in solution. Physical Review E, 2020, 102, 042607.	2.1	5
11	Absolute quantum yield measurements of fluorescent proteins using a plasmonic nanocavity. Communications Biology, 2020, 3, 627.	4.4	15
12	Single-molecule confinement with uniform electrodynamic nanofluidics. Lab on A Chip, 2020, 20, 3249-3257.	6.0	6
13	Multi-target immunofluorescence by separation of antibody cross-labelling via spectral-FLIM-FRET. Scientific Reports, 2020, 10, 3820.	3.3	8
14	Fluorescence polarization filtering for accurate single molecule localization. APL Photonics, 2020, 5, .	5.7	14
15	Wide-Field Fluorescence Lifetime Imaging of Single Molecules. Journal of Physical Chemistry A, 2020, 124, 3494-3500.	2.5	39
16	Fluorescence fluctuation analysis reveals PpV dependent Cdc25 protein dynamics in living embryos. PLoS Genetics, 2020, 16, e1008735.	3.5	6
17	Efficient modeling of three-dimensional convectionâ€“diffusion problems in stationary flows. Physics of Fluids, 2020, 32, .	4.0	5
18	Structural myelin defects are associated with low axonal ATP levels but rapid recovery from energy deprivation in a mouse model of spastic paraplegia. PLoS Biology, 2020, 18, e3000943.	5.6	26

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19	Dual-Color Metal-Induced Energy Transfer (MIET) Imaging for Three-Dimensional Reconstruction of Nuclear Envelope Architecture. Methods in Molecular Biology, 2020, 2175, 33-45.	0.9	1
20	Fluorescence fluctuation analysis reveals PpV dependent Cdc25 protein dynamics in living embryos. , 2020, 16, e1008735.		0
21	Fluorescence fluctuation analysis reveals PpV dependent Cdc25 protein dynamics in living embryos. , 2020, 16, e1008735.		0
22	Fluorescence fluctuation analysis reveals PpV dependent Cdc25 protein dynamics in living embryos. , 2020, 16, e1008735.		0
23	Fluorescence fluctuation analysis reveals PpV dependent Cdc25 protein dynamics in living embryos. , 2020, 16, e1008735.		0
24	Graphene-based metal-induced energy transfer for sub-nanometre optical localization. Nature Photonics, 2019, 13, 860-865.	31.4	66
25	Metal-induced energy transfer. Nanophotonics, 2019, 8, 1689-1699.	6.0	20
26	Image scanning microscopy. Current Opinion in Chemical Biology, 2019, 51, 74-83.	6.1	51
27	Efficient solver for a special class of convection-diffusion problems. Physics of Fluids, 2019, 31, 023606.	4.0	5
28	Excitation and Emission Transition Dipoles of Type-II Semiconductor Nanorods. Nano Letters, 2019, 19, 1695-1700.	9.1	10
29	Carbon Dots for Studying Muscle Architecture. ACS Applied Nano Materials, 2019, 2, 7466-7472.	5.0	4
30	Multi-target immunofluorescence using spectral FLIM-FRET for separation of undesirable antibody cross-labeling. , 2019, , .		0
31	Fluorescence lifetime correlation spectroscopy: Basics and applications. Methods, 2018, 140-141, 32-39.	3.8	38
32	Dual-color metal-induced and FÃ¶rster resonance energy transfer for cell nanoscopy. Molecular Biology of the Cell, 2018, 29, 846-851.	2.1	26
33	Photon Yield Enhancement of Red Fluorophores at Cryogenic Temperatures. ChemPhysChem, 2018, 19, 1774-1780.	2.1	27
34	Axial Colocalization of Single Molecules with Nanometer Accuracy Using Metal-Induced Energy Transfer. Nano Letters, 2018, 18, 2616-2622.	9.1	43
35	Monomerization of the photoconvertible fluorescent protein SAASoti by rational mutagenesis of single amino acids. Scientific Reports, 2018, 8, 15542.	3.3	8
36	Three-dimensional single-molecule localization with nanometer accuracy using Metal-Induced Energy Transfer (MIET) imaging. Journal of Chemical Physics, 2018, 148, 204201.	3.0	26

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37	Cellâ€“Substrate Dynamics of the Epithelial-to-Mesenchymal Transition. Nano Letters, 2017, 17, 3320-3326.	9.1	48
38	Quantum Yield Measurements of Fluorophores in Lipid Bilayers Using a Plasmonic Nanocavity. Journal of Physical Chemistry Letters, 2017, 8, 1472-1475.	4.6	11
39	Rapid nonlinear image scanning microscopy. Nature Methods, 2017, 14, 1087-1089.	19.0	62
40	Three-Dimensional Reconstruction of Nuclear Envelope Architecture Using Dual-Color Metal-Induced Energy Transfer Imaging. ACS Nano, 2017, 11, 11839-11846.	14.6	42
41	Quantifying Microsecond Transition Times Using Fluorescence Lifetime Correlation Spectroscopy. Journal of Physical Chemistry Letters, 2017, 8, 6022-6028.	4.6	22
42	Charge-Driven Fluorescence Blinking in Carbon Nanodots. Journal of Physical Chemistry Letters, 2017, 8, 5751-5757.	4.6	43
43	Single-Molecule Transition Dipole Imaging. Springer Theses, 2017, , 87-143.	0.1	1
44	Discussion and Outlook. Springer Theses, 2017, , 145-158.	0.1	0
45	metal-induced energy transfer (MIET) (Conference Presentation). , 2017, , .		0
46	Dead-time correction of fluorescence lifetime measurements and fluorescence lifetime imaging. Optics Express, 2016, 24, 9429.	3.4	49
47	Probing of protein localization and shuttling in mitochondrial microcompartments by FLIM with sub-diffraction resolution. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1290-1299.	1.0	18
48	Photoactivation of Luminescent Centers in Single SiO2 Nanoparticles. Nano Letters, 2016, 16, 4312-4316.	9.1	29
49	Multi-target spectrally resolved fluorescence lifetime imaging microscopy. Nature Methods, 2016, 13, 257-262.	19.0	190
50	Super-Resolution Optical Fluctuation Bio-Imaging with Dual-Color Carbon Nanodots. Nano Letters, 2016, 16, 237-242.	9.1	122
51	Simultaneous Measurement of the Three-Dimensional Orientation of Excitation and Emission Dipoles. Physical Review Letters, 2015, 115, 173002.	7.8	38
52	Enhanced dimerization drives ligand-independent activity of mutant epidermal growth factor receptor in lung cancer. Molecular Biology of the Cell, 2015, 26, 4087-4099.	2.1	79
53	Accurate Diffusion Coefficients of Organosoluble Reference Dyes in Organic Media Measured by Dual-Focus Fluorescence Correlation Spectroscopy. ACS Nano, 2015, 9, 7360-7373.	14.6	7
54	MD Simulations and FRET Reveal an Environment-Sensitive Conformational Plasticity of Importin-Î². Biophysical Journal, 2015, 109, 277-286.	0.5	23

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55	Photoluminescence of a single quantum emitter in a strongly inhomogeneous chemical environment. Physical Chemistry Chemical Physics, 2015, 17, 14994-15000.	2.8	11
56	Ultra-stable and versatile widefield cryo-fluorescence microscope for single-molecule localization with sub-nanometer accuracy. Optics Express, 2015, 23, 3770.	3.4	45
57	Fourier interpolation stochastic optical fluctuation imaging. Optics Express, 2015, 23, 16154.	3.4	40
58	Analytical approximations of the diffusive dispersion in fluid flows. Europhysics Letters, 2014, 108, 40007.	2.0	1
59	The fast polarization modulation based dual-focus fluorescence correlation spectroscopy. Optics Express, 2014, 22, 885.	3.4	7
60	Singleâ€Molecule Metalâ€Induced Energy Transfer (smMIET): Resolving Nanometer Distances at the Singleâ€Molecule Level. ChemPhysChem, 2014, 15, 705-711.	2.1	49
61	Metal-Induced Energy Transfer. Springer Series on Fluorescence, 2014, , 265-281.	0.8	1
62	Single-molecule fluorescence inside solid-state nanochannels. , 2014, , .		0
63	Feedback-controlled electro-kinetic traps for single-molecule spectroscopy. Pramana - Journal of Physics, 2014, 82, 121-134.	1.8	5
64	Metal-induced energy transfer for live cell nanoscopy. Nature Photonics, 2014, 8, 124-127.	31.4	132
65	Photoluminescence of Carbon Nanodots: Dipole Emission Centers and Electronâ€“Phonon Coupling. Nano Letters, 2014, 14, 5656-5661.	9.1	187
66	Absolute Photoluminescence Quantum Yield Measurement in a Complex Nanoscopic System with Multiple Overlapping States. Journal of Physical Chemistry Letters, 2014, 5, 1198-1202.	4.6	18
67	Pattern-Based Linear Unmixing for Efficient and Reliable Analysis of Multicomponent TCSPC Data. Springer Series on Fluorescence, 2014, , 241-263.	0.8	10
68	Quantifying the Diffusion of Membrane Proteins and Peptides in Black Lipid Membranes with 2-Focus Fluorescence Correlation Spectroscopy. Biophysical Journal, 2013, 105, 455-462.	0.5	99
69	Nanocavityâ€Based Determination of Absolute Values of Photoluminescence Quantum Yields. ChemPhysChem, 2013, 14, 505-513.	2.1	49
70	Quantum Yield Measurement in a Multicolor Chromophore Solution Using a Nanocavity. Nano Letters, 2013, 13, 1348-1351.	9.1	25
71	Dual-Focus Fluorescence Correlation Spectroscopy. Methods in Enzymology, 2013, 518, 175-204.	1.0	9
72	Molecular dissection of step 2 catalysis of yeast pre-mRNA splicing investigated in a purified system. Rna, 2013, 19, 902-915.	3.5	60

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73	Electrodynamic Coupling of Electric Dipole Emitters to a Fluctuating Mode Density within a Nanocavity. Physical Review Letters, 2012, 108, 163002.	7.8	28
74	Temporal sampling, resetting, and adaptation orchestrate gradient sensing in sperm. Journal of Cell Biology, 2012, 198, 1075-1091.	5.2	37
75	Prp2-mediated protein rearrangements at the catalytic core of the spliceosome as revealed by dcFCCS. Rna, 2012, 18, 1244-1256.	3.5	75
76	The rate of change in Ca2+ concentration controls sperm chemotaxis. Journal of Cell Biology, 2012, 196, 653-663.	5.2	88
77	Single-Molecule Fluorescence Spectroscopy of the Structure and Dynamics of the Spliceosomal Complex. Biophysical Journal, 2012, 102, 47a.	0.5	0
78	Complementation Activated Light Microscopy for Nanometer Accuracy Single-Molecule Targeting and Tracking in Cells and Living Animals. Biophysical Journal, 2012, 102, 181a.	0.5	0
79	The rate of change in Ca²⁺concentration controls sperm chemotaxis. Journal of General Physiology, 2012, 139, i2-i2.	1.9	0
80	Imaging properties of supercritical angle fluorescence optics. Optics Express, 2011, 19, 8011.	3.4	19
81	Fast algorithms for the analysis of spectral FLIM data. , 2011, , .		4
82	Dual-Focus Confocal Microscopy for Flow and Brightness Measurements. Biophysical Journal, 2010, 98, 586a.	0.5	0
83	Fast Biosynthesis of GFP Molecules - A Single Molecule Fluorescence Study. Biophysical Journal, 2010, 98, 259a-260a.	0.5	0
84	Dual-Focus Fluorescence Correlation Spectroscopy: Measuring Translational and Rotational Diffusion of Biomolecules. Biophysical Journal, 2010, 98, 586a.	0.5	0
85	Measuring rotational diffusion of macromolecules by fluorescence correlation spectroscopy. Photochemical and Photobiological Sciences, 2010, 9, 627-636.	2.9	51
86	Observing Proteins as Single Molecules Encapsulated in Surfaceâ€Tethered Polymeric Nanocontainers. ChemBioChem, 2009, 10, 702-709.	2.6	37
87	Translational Diffusion and Interaction of a Photoreceptor and Its Cognate Transducer Observed in Giant Unilamellar Vesicles by Using Dualâ€Focus FCS. ChemBioChem, 2009, 10, 1823-1829.	2.6	33
88	Fast Biosynthesis of GFP Molecules: A Singleâ€Molecule Fluorescence Study. Angewandte Chemie - International Edition, 2009, 48, 1758-1761.	13.8	46
89	Probing Protein Conformations by in Situ Non-Covalent Fluorescence Labeling. Bioconjugate Chemistry, 2009, 20, 41-46.	3.6	22
90	Ligand Binding Induces a Conformational Change in ifnar1 that Is Propagated to Its Membrane-Proximal Domain. Journal of Molecular Biology, 2008, 377, 725-739.	4.2	48

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91	Dead-time optimized time-correlated photon counting instrument with synchronized, independent timing channels. Review of Scientific Instruments, 2007, 78, 033106.	1.3	60
92	Monitoring of small conformational changes by high-precision measurements of hydrodynamic radius with 2-focus fluorescence correlation spectroscopy (2fFCS). , 2007, , .		0
93	Time-resolved methods in biophysics. 3. Fluorescence lifetime correlation spectroscopy. Photochemical and Photobiological Sciences, 2007, 6, 13-18.	2.9	66
94	Exploring Fluorescence Antibunching in Solution To Determine the Stoichiometry of Molecular Complexes. Analytical Chemistry, 2007, 79, 4040-4049.	6.5	49
95	Two-Focus Fluorescence Correlation Spectroscopy: A New Tool for Accurate and Absolute Diffusion Measurements. ChemPhysChem, 2007, 8, 433-443.	2.1	312
96	Measuring precise diffusion coefficients with two-focus fluorescence correlation spectroscopy. , 2006, 6092, 6.		1
97	Art and artifacts of fluorescence correlation spectroscopy. , 2005, , .		5
98	Optical Saturation in Fluorescence Correlation Spectroscopy under Continuous-Wave and Pulsed Excitation. ChemPhysChem, 2005, 6, 164-170.	2.1	103
99	Performance of Fluorescence Correlation Spectroscopy for Measuring Diffusion and Concentration. ChemPhysChem, 2005, 6, 2324-2336.	2.1	204
100	Statistical Analysis of Diffusion Coefficient Determination by Fluorescence Correlation Spectroscopy. Journal of Fluorescence, 2005, 15, 415-422.	2.5	32
101	Using fluorescence lifetime for discriminating detector afterpulsing in fluorescence-correlation spectroscopy. Review of Scientific Instruments, 2005, 76, 033102.	1.3	91
102	Defocused imaging of quantum-dot angular distribution of radiation. Applied Physics Letters, 2005, 87, 101103.	3.3	57
103	Measuring large numerical apertures by imaging the angular distribution of radiation of fluorescing molecules. Optics Express, 2005, 13, 9409.	3.4	27
104	Focusing astigmatic Gaussian beams through optical systems with a high numerical aperture. Optics Letters, 2005, 30, 2527.	3.3	20
105	Image Analysis of Defocused Single-Molecule Images for Three-Dimensional Molecule Orientation Studies. Journal of Physical Chemistry A, 2004, 108, 6836-6841.	2.5	173
106	Art and Artefacts of Fluorescence Correlation Spectroscopy. Current Pharmaceutical Biotechnology, 2004, 5, 155-161.	1.6	177
107	Fast calculation of fluorescence correlation data with asynchronous time-correlated single-photon counting. Optics Express, 2003, 11, 3583.	3.4	138
108	Precise fluorescence measurement for determination of photophysical properties of dyes. Chemical Physics, 2001, 272, 185-197.	1.9	13

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109	Laser-raster spectrometer for time-resolved recording of transient absorption. Applied Optics, 1999, 38, 7468.	2.1	1