# Ingo Gregor

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3245421/publications.pdf

Version: 2024-02-01

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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 | Two-Focus Fluorescence Correlation Spectroscopy: A New Tool for Accurate and Absolute Diffusion Measurements. ChemPhysChem, 2007, 8, 433-443. | 2.1 | 312 |
| 2 | Performance of Fluorescence Correlation Spectroscopy for Measuring Diffusion and Concentration. ChemPhysChem, 2005, 6, 2324-2336. | 2.1 | 204 |
| 3 | Multi-target spectrally resolved fluorescence lifetime imaging microscopy. Nature Methods, 2016, 13, 257-262. | 19.0 | 190 |
| 4 | Photoluminescence of Carbon Nanodots: Dipole Emission Centers and Electronâ€“Phonon Coupling. Nano Letters, 2014, 14, 5656-5661. | 9.1 | 187 |
| 5 | Art and Artefacts of Fluorescence Correlation Spectroscopy. Current Pharmaceutical Biotechnology, 2004, 5, 155-161. | 1.6 | 177 |
| 6 | 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 |
| 7 | Fast calculation of fluorescence correlation data with asynchronous time-correlated single-photon counting. Optics Express, 2003, 11, 3583. | 3.4 | 138 |
| 8 | Metal-induced energy transfer for live cell nanoscopy. Nature Photonics, 2014, 8, 124-127. | 31.4 | 132 |
| 9 | Super-Resolution Optical Fluctuation Bio-Imaging with Dual-Color Carbon Nanodots. Nano Letters, 2016, 16, 237-242. | 9.1 | 122 |
| 10 | Optical Saturation in Fluorescence Correlation Spectroscopy under Continuous-Wave and Pulsed Excitation. ChemPhysChem, 2005, 6, 164-170. | 2.1 | 103 |
| 11 | 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 |
| 12 | Using fluorescence lifetime for discriminating detector afterpulsing in fluorescence-correlation spectroscopy. Review of Scientific Instruments, 2005, 76, 033102. | 1.3 | 91 |
| 13 | The rate of change in Ca2+ concentration controls sperm chemotaxis. Journal of Cell Biology, 2012, 196, 653-663. | 5.2 | 88 |
| 14 | 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 |
| 15 | Prp2-mediated protein rearrangements at the catalytic core of the spliceosome as revealed by dcFCCS. Rna, 2012, 18, 1244-1256. | 3.5 | 75 |
| 16 | Time-resolved methods in biophysics. 3. Fluorescence lifetime correlation spectroscopy. Photochemical and Photobiological Sciences, 2007, 6, 13-18. | 2.9 | 66 |
| 17 | Graphene-based metal-induced energy transfer for sub-nanometre optical localization. Nature Photonics, 2019, 13, 860-865. | 31.4 | 66 |
| 18 | Rapid nonlinear image scanning microscopy. Nature Methods, 2017, 14, 1087-1089. | 19.0 | 62 |

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|---|---|---|---|
| 19 | Dead-time optimized time-correlated photon counting instrument with synchronized, independent timing channels. Review of Scientific Instruments, 2007, 78, 033106. | 1.3 | 60 |
| 20 | Molecular dissection of step 2 catalysis of yeast pre-mRNA splicing investigated in a purified system. Rna, 2013, 19, 902-915. | 3.5 | 60 |
| 21 | Defocused imaging of quantum-dot angular distribution of radiation. Applied Physics Letters, 2005, 87, 101103. | 3.3 | 57 |
| 22 | Measuring rotational diffusion of macromolecules by fluorescence correlation spectroscopy. Photochemical and Photobiological Sciences, 2010, 9, 627-636. | 2.9 | 51 |
| 23 | Image scanning microscopy. Current Opinion in Chemical Biology, 2019, 51, 74-83. | 6.1 | 51 |
| 24 | Exploring Fluorescence Antibunching in Solution To Determine the Stoichiometry of Molecular Complexes. Analytical Chemistry, 2007, 79, 4040-4049. | 6.5 | 49 |
| 25 | Nanocavityâ€Based Determination of Absolute Values of Photoluminescence Quantum Yields. ChemPhysChem, 2013, 14, 505-513. | 2.1 | 49 |
| 26 | Singleâ€Molecule Metalâ€Induced Energy Transfer (smMIET): Resolving Nanometer Distances at the Singleâ€Molecule Level. ChemPhysChem, 2014, 15, 705-711. | 2.1 | 49 |
| 27 | Dead-time correction of fluorescence lifetime measurements and fluorescence lifetime imaging. Optics Express, 2016, 24, 9429. | 3.4 | 49 |
| 28 | 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 |
| 29 | Cellâ€“Substrate Dynamics of the Epithelial-to-Mesenchymal Transition. Nano Letters, 2017, 17, 3320-3326. | 9.1 | 48 |
| 30 | Fast Biosynthesis of GFP Molecules: A Singleâ€Molecule Fluorescence Study. Angewandte Chemie - International Edition, 2009, 48, 1758-1761. | 13.8 | 46 |
| 31 | Ultra-stable and versatile widefield cryo-fluorescence microscope for single-molecule localization with sub-nanometer accuracy. Optics Express, 2015, 23, 3770. | 3.4 | 45 |
| 32 | Charge-Driven Fluorescence Blinking in Carbon Nanodots. Journal of Physical Chemistry Letters, 2017, 8, 5751-5757. | 4.6 | 43 |
| 33 | Axial Colocalization of Single Molecules with Nanometer Accuracy Using Metal-Induced Energy Transfer. Nano Letters, 2018, 18, 2616-2622. | 9.1 | 43 |
| 34 | Three-Dimensional Reconstruction of Nuclear Envelope Architecture Using Dual-Color Metal-Induced Energy Transfer Imaging. ACS Nano, 2017, 11, 11839-11846. | 14.6 | 42 |
| 35 | Fourier interpolation stochastic optical fluctuation imaging. Optics Express, 2015, 23, 16154. | 3.4 | 40 |
| 36 | Wide-Field Fluorescence Lifetime Imaging of Single Molecules. Journal of Physical Chemistry A, 2020, 124, 3494-3500. | 2.5 | 39 |

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|---|---|---|---|
| 37 | Simultaneous Measurement of the Three-Dimensional Orientation of Excitation and Emission Dipoles. Physical Review Letters, 2015, 115, 173002. | 7.8 | 38 |
| 38 | Fluorescence lifetime correlation spectroscopy: Basics and applications. Methods, 2018, 140-141, 32-39. | 3.8 | 38 |
| 39 | Observing Proteins as Single Molecules Encapsulated in Surfaceâ€Tethered Polymeric Nanocontainers. ChemBioChem, 2009, 10, 702-709. | 2.6 | 37 |
| 40 | Temporal sampling, resetting, and adaptation orchestrate gradient sensing in sperm. Journal of Cell Biology, 2012, 198, 1075-1091. | 5.2 | 37 |
| 41 | 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 |
| 42 | Statistical Analysis of Diffusion Coefficient Determination by Fluorescence Correlation Spectroscopy. Journal of Fluorescence, 2005, 15, 415-422. | 2.5 | 32 |
| 43 | 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 |
| 44 | Photoactivation of Luminescent Centers in Single SiO2 Nanoparticles. Nano Letters, 2016, 16, 4312-4316. | 9.1 | 29 |
| 45 | Electrodynamic Coupling of Electric Dipole Emitters to a Fluctuating Mode Density within a Nanocavity. Physical Review Letters, 2012, 108, 163002. | 7.8 | 28 |
| 46 | Measuring large numerical apertures by imaging the angular distribution of radiation of fluorescing molecules. Optics Express, 2005, 13, 9409. | 3.4 | 27 |
| 47 | Photon Yield Enhancement of Red Fluorophores at Cryogenic Temperatures. ChemPhysChem, 2018, 19, 1774-1780. | 2.1 | 27 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | Quantum Yield Measurement in a Multicolor Chromophore Solution Using a Nanocavity. Nano Letters, 2013, 13, 1348-1351. | 9.1 | 25 |
| 52 | Fluorescence lifetime DNA-PAINT for multiplexed super-resolution imaging of cells. Communications Biology, 2022, 5, 38. | 4.4 | 25 |
| 53 | MD Simulations and FRET Reveal an Environment-Sensitive Conformational Plasticity of Importin-Î². Biophysical Journal, 2015, 109, 277-286. | 0.5 | 23 |
| 54 | Atg21 organizes Atg8 lipidation at the contact of the vacuole with the phagophore. Autophagy, 2021, 17, 1458-1478. | 9.1 | 23 |

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|---|---|---|---|
| 55 | Probing Protein Conformations by in Situ Non-Covalent Fluorescence Labeling. Bioconjugate Chemistry, 2009, 20, 41-46. | 3.6 | 22 |
| 56 | Quantifying Microsecond Transition Times Using Fluorescence Lifetime Correlation Spectroscopy. Journal of Physical Chemistry Letters, 2017, 8, 6022-6028. | 4.6 | 22 |
| 57 | Focusing astigmatic Gaussian beams through optical systems with a high numerical aperture. Optics Letters, 2005, 30, 2527. | 3.3 | 20 |
| 58 | Metal-induced energy transfer. Nanophotonics, 2019, 8, 1689-1699. | 6.0 | 20 |
| 59 | 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 |
| 60 | Imaging properties of supercritical angle fluorescence optics. Optics Express, 2011, 19, 8011. | 3.4 | 19 |
| 61 | 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 |
| 62 | 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 |
| 63 | Absolute quantum yield measurements of fluorescent proteins using a plasmonic nanocavity. Communications Biology, 2020, 3, 627. | 4.4 | 15 |
| 64 | Fluorescence polarization filtering for accurate single molecule localization. APL Photonics, 2020, 5, . | 5.7 | 14 |
| 65 | Precise fluorescence measurement for determination of photophysical properties of dyes. Chemical Physics, 2001, 272, 185-197. | 1.9 | 13 |
| 66 | Doubling the resolution of a confocal spinning-disk microscope using image scanning microscopy. Nature Protocols, 2021, 16, 164-181. | 12.0 | 13 |
| 67 | Photoluminescence of a single quantum emitter in a strongly inhomogeneous chemical environment. Physical Chemistry Chemical Physics, 2015, 17, 14994-15000. | 2.8 | 11 |
| 68 | Quantum Yield Measurements of Fluorophores in Lipid Bilayers Using a Plasmonic Nanocavity. Journal of Physical Chemistry Letters, 2017, 8, 1472-1475. | 4.6 | 11 |
| 69 | Pattern-Based Linear Unmixing for Efficient and Reliable Analysis of Multicomponent TCSPC Data. Springer Series on Fluorescence, 2014, , 241-263. | 0.8 | 10 |
| 70 | Excitation and Emission Transition Dipoles of Type-II Semiconductor Nanorods. Nano Letters, 2019, 19, 1695-1700. | 9.1 | 10 |
| 71 | Dual-Focus Fluorescence Correlation Spectroscopy. Methods in Enzymology, 2013, 518, 175-204. | 1.0 | 9 |
| 72 | Monomerization of the photoconvertible fluorescent protein SAASoti by rational mutagenesis of single amino acids. Scientific Reports, 2018, 8, 15542. | 3.3 | 8 |

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| 73 | Multi-target immunofluorescence by separation of antibody cross-labelling via spectral-FLIM-FRET. Scientific Reports, 2020, 10, 3820. | 3.3 | 8 |
| 74 | The fast polarization modulation based dual-focus fluorescence correlation spectroscopy. Optics Express, 2014, 22, 885. | 3.4 | 7 |
| 75 | 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 |
| 76 | Single-molecule confinement with uniform electrodynamic nanofluidics. Lab on A Chip, 2020, 20, 3249-3257. | 6.0 | 6 |
| 77 | Fluorescence fluctuation analysis reveals PpV dependent Cdc25 protein dynamics in living embryos. PLoS Genetics, 2020, 16, e1008735. | 3.5 | 6 |
| 78 | Art and artifacts of fluorescence correlation spectroscopy. , 2005, , . | | 5 |
| 79 | Feedback-controlled electro-kinetic traps for single-molecule spectroscopy. Pramana - Journal of Physics, 2014, 82, 121-134. | 1.8 | 5 |
| 80 | Efficient solver for a special class of convection-diffusion problems. Physics of Fluids, 2019, 31, 023606. | 4.0 | 5 |
| 81 | Electroviscous effect for a confined nanosphere in solution. Physical Review E, 2020, 102, 042607. | 2.1 | 5 |
| 82 | Efficient modeling of three-dimensional convectionâ€“diffusion problems in stationary flows. Physics of Fluids, 2020, 32, . | 4.0 | 5 |
| 83 | Fast algorithms for the analysis of spectral FLIM data. , 2011, , . | | 4 |
| 84 | Carbon Dots for Studying Muscle Architecture. ACS Applied Nano Materials, 2019, 2, 7466-7472. | 5.0 | 4 |
| 85 | 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 |
| 86 | Instant three-color multiplane fluorescence microscopy. Biophysical Reports, 2021, 1, 100001. | 1.2 | 3 |
| 87 | Laser-raster spectrometer for time-resolved recording of transient absorption. Applied Optics, 1999, 38, 7468. | 2.1 | 1 |
| 88 | Measuring precise diffusion coefficients with two-focus fluorescence correlation spectroscopy. , 2006, 6092, 6. | | 1 |
| 89 | Analytical approximations of the diffusive dispersion in fluid flows. Europhysics Letters, 2014, 108, 40007. | 2.0 | 1 |
| 90 | Metal-Induced Energy Transfer. Springer Series on Fluorescence, 2014, , 265-281. | 0.8 | 1 |

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|---|---|---|---|
| 91 | Single-Molecule Transition Dipole Imaging. Springer Theses, 2017, , 87-143. | 0.1 | 1 |
| 92 | 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 |
| 93 | Measuring Photophysical Transition Rates with Fluorescence Correlation Spectroscopy and Antibunching. Journal of Physical Chemistry Letters, 2022, 13, 4823-4830. | 4.6 | 1 |
| 94 | Monitoring of small conformational changes by high-precision measurements of hydrodynamic radius with 2-focus fluorescence correlation spectroscopy (2fFCS). , 2007, , . | | 0 |
| 95 | Dual-Focus Confocal Microscopy for Flow and Brightness Measurements. Biophysical Journal, 2010, 98, 586a. | 0.5 | 0 |
| 96 | Fast Biosynthesis of GFP Molecules - A Single Molecule Fluorescence Study. Biophysical Journal, 2010, 98, 259a-260a. | 0.5 | 0 |
| 97 | Dual-Focus Fluorescence Correlation Spectroscopy: Measuring Translational and Rotational Diffusion of Biomolecules. Biophysical Journal, 2010, 98, 586a. | 0.5 | 0 |
| 98 | Single-Molecule Fluorescence Spectroscopy of the Structure and Dynamics of the Spliceosomal Complex. Biophysical Journal, 2012, 102, 47a. | 0.5 | 0 |
| 99 | 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 |
| 100 | Single-molecule fluorescence inside solid-state nanochannels. , 2014, , . | | 0 |
| 101 | The rate of change in Ca<sup>2+</sup>concentration controls sperm chemotaxis. Journal of General Physiology, 2012, 139, i2-i2. | 1.9 | 0 |
| 102 | Discussion and Outlook. Springer Theses, 2017, , 145-158. | 0.1 | 0 |
| 103 | metal-induced energy transfer (MIET) (Conference Presentation). , 2017, , . | | 0 |
| 104 | Multi-target immunofluorescence using spectral FLIM-FRET for separation of undesirable antibody cross-labeling. , 2019, , . | | 0 |
| 105 | Modeling charge separation in charged nanochannels for single-molecule electrometry. Journal of Chemical Physics, 2022, 156, 105104. | 3.0 | 0 |
| 106 | Fluorescence fluctuation analysis reveals PpV dependent Cdc25 protein dynamics in living embryos. , 2020, 16, e1008735. | | 0 |
| 107 | Fluorescence fluctuation analysis reveals PpV dependent Cdc25 protein dynamics in living embryos. , 2020, 16, e1008735. | | 0 |
| 108 | Fluorescence fluctuation analysis reveals PpV dependent Cdc25 protein dynamics in living embryos. , 2020, 16, e1008735. | | 0 |

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| 109 | Fluorescence fluctuation analysis reveals PpV dependent Cdc25 protein dynamics in living embryos. , 2020, 16, e1008735. | | 0 |