

# Dirk Peter Herten

## List of Publications by Year in descending order

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88  
papers

2,549  
citations

218381

26  
h-index

214527

47  
g-index

105  
all docs

105  
docs citations

105  
times ranked

2945  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mouse Heterochromatin Adopts Digital Compaction States without Showing Hallmarks of HP1-Driven Liquid-Liquid Phase Separation. <i>Molecular Cell</i> , 2020, 78, 236-249.e7.	4.5	214
2	Measuring the Number of Independent Emitters in Single-Molecule Fluorescence Images and Trajectories Using Coincident Photons. <i>Analytical Chemistry</i> , 2002, 74, 5342-5349.	3.2	134
3	Photophysical Dynamics of Single Molecules Studied by Spectrally-Resolved Fluorescence Lifetime Imaging Microscopy (SFLIM). <i>Journal of Physical Chemistry A</i> , 2001, 105, 7989-8003.	1.1	120
4	Multiplex Dye DNA Sequencing in Capillary Gel Electrophoresis by Diode Laser-Based Time-Resolved Fluorescence Detection. <i>Analytical Chemistry</i> , 1998, 70, 4771-4779.	3.2	118
5	High-Resolution Colocalization of Single Dye Molecules by Fluorescence Lifetime Imaging Microscopy. <i>Analytical Chemistry</i> , 2002, 74, 3511-3517.	3.2	107
6	Synthesis, Structure and Emission Properties of Spirocyclic Benzofuranones and Dihydroindolones: A Domino Insertion-Coupling-Isomerization Diels-Alder Approach to Rigid Fluorophores. <i>Chemistry - A European Journal</i> , 2008, 14, 529-547.	1.7	106
7	Fluorescent Sensor for Cu <sup>2+</sup> with a Tunable Emission Wavelength. <i>Inorganic Chemistry</i> , 2005, 44, 5661-5666.	1.9	100
8	Live-Cell Localization Microscopy with a Fluorogenic and Self-Blinking Tetrazine Probe. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 804-810.	7.2	83
9	Detection and Identification of Single Molecules in Living Cells Using Spectrally Resolved Fluorescence Lifetime Imaging Microscopy. <i>Analytical Chemistry</i> , 2003, 75, 2147-2153.	3.2	78
10	The Shape of Protein Crowders is a Major Determinant of Protein Diffusion. <i>Biophysical Journal</i> , 2013, 104, 1576-1584.	0.2	77
11	Higher-Excited-State Photophysical Pathways in Multichromophoric Systems Revealed by Single-Molecule Fluorescence Spectroscopy. <i>ChemPhysChem</i> , 2004, 5, 1786-1790.	1.0	72
12	Confocal Fluorescence Lifetime Imaging Microscopy (FLIM) at the Single Molecule Level. <i>Single Molecules</i> , 2000, 1, 215-223.	1.7	66
13	Direct Monitoring of Formation and Dissociation of Individual Metal Complexes by Single-Molecule Fluorescence Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3363-3366.	7.2	64
14	Distinguishing Alternative Reaction Pathways by Single-Molecule Fluorescence Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6322-6325.	7.2	62
15	Species-Specific Identification of Mycobacterial 16S rRNA PCR Amplicons Using Smart Probes. <i>Analytical Chemistry</i> , 2005, 77, 7195-7203.	3.2	59
16	Bio-orthogonal Red and Far-Red Fluorogenic Probes for Wash-Free Live-Cell and Super-resolution Microscopy. <i>ACS Central Science</i> , 2021, 7, 1561-1571.	5.3	57
17	Quenched Substrates for Live-Cell Labeling of SNAP-Tagged Fusion Proteins with Improved Fluorescent Background. <i>Analytical Chemistry</i> , 2010, 82, 8186-8193.	3.2	48
18	Structure, Dynamics, and Energetics of siRNA-Cationic Vector Complexation: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 9220-9230.	1.2	47

#	ARTICLE	IF	CITATIONS
19	Far-Field Nanoscopy with Reversible Chemical Reactions. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2940-2945.	7.2	43
20	Tetraguanidino-functionalized phenazine and fluorene dyes: synthesis, optical properties and metal coordination. <i>Dalton Transactions</i> , 2015, 44, 3467-3485.	1.6	35
21	Forces during cellular uptake of viruses and nanoparticles at the ventral side. <i>Nature Communications</i> , 2020, 11, 32.	5.8	35
22	Experimental approach to extend the range for counting fluorescent molecules based on photon-antibunching. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10295.	1.3	33
23	Automated Analysis of Single-Molecule Photobleaching Data by Statistical Modeling of Spot Populations. <i>Biophysical Journal</i> , 2015, 109, 2352-2362.	0.2	32
24	Identification of single fluorescently labelled mononucleotide molecules in solution by spectrally resolved time-correlated single-photon counting. <i>Applied Physics B: Lasers and Optics</i> , 2000, 71, 765-771.	1.1	30
25	Capillary array scanner for time-resolved detection and identification of fluorescently labelled DNA fragments. <i>Journal of Chromatography A</i> , 2000, 871, 299-310.	1.8	29
26	Counting Fluorescent Dye Molecules on DNA Origami by Means of Photon Statistics. <i>Small</i> , 2013, 9, 4061-4068.	5.2	29
27	A Conformational Change in the $\beta$ -subunit of Coatamer Induced by Ligand Binding to COP Revealed by Single-pair FRET. <i>Traffic</i> , 2008, 9, 597-607.	1.3	26
28	An extended scheme for counting fluorescent molecules by photon-antibunching. <i>Laser Physics</i> , 2010, 20, 119-124.	0.6	26
29	High-Resolution Colocalization of Single Molecules within the Resolution Gap of Far-Field Microscopy. <i>ChemPhysChem</i> , 2005, 6, 949-955.	1.0	25
30	Correlative 3D microscopy of single cells using super-resolution and scanning ion-conductance microscopy. <i>Nature Communications</i> , 2021, 12, 4565.	5.8	25
31	Imaging Diffusion in Living Cells Using Time-Correlated Single-Photon Counting. <i>Analytical Chemistry</i> , 2007, 79, 7340-7345.	3.2	21
32	Fluorescence Quenching of Quantum Dots by DNA Nucleotides and Amino Acids. <i>Australian Journal of Chemistry</i> , 2011, 64, 512.	0.5	21
33	Single-Molecule Studies on the Label Number Distribution of Fluorescent Markers. <i>ChemPhysChem</i> , 2014, 15, 734-742.	1.0	21
34	Protein-specific localization of a rhodamine-based calcium-sensor in living cells. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 5606-5611.	1.5	21
35	Time-resolved molecule counting by photon statistics across the visible spectrum. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8962-8969.	1.3	21
36	Ensemble and Single-Molecule Studies on Fluorescence Quenching in Transition Metal Bipyridine-Complexes. <i>PLoS ONE</i> , 2013, 8, e58049.	1.1	20

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37	Photons in - numbers out: perspectives in quantitative fluorescence microscopy for in situ protein counting. <i>Methods and Applications in Fluorescence</i> , 2019, 7, 012003.	1.1	20
38	Evidence that GPVI is Expressed as a Mixture of Monomers and Dimers, and that the D2 Domain is not Essential for GPVI Activation. <i>Thrombosis and Haemostasis</i> , 2021, 121, 1435-1447.	1.8	19
39	Analysis of Single-Molecule Fluorescence Spectroscopic Data with a Markov-Modulated Poisson Process. <i>ChemPhysChem</i> , 2009, 10, 2486-2495.	1.0	18
40	Microscale thermophoresis provides insights into mechanism and thermodynamics of ribozyme catalysis. <i>RNA Biology</i> , 2013, 10, 1815-1821.	1.5	18
41	Photobleaching step analysis for robust determination of protein complex stoichiometries. <i>Molecular Biology of the Cell</i> , 2021, 32, ar35.	0.9	18
42	Fluorescence lifetime of gas-phase toluene at elevated temperatures. <i>Chemical Physics Letters</i> , 2006, 426, 248-251.	1.2	17
43	Efficient DNA sequencing with a pulsed semiconductor laser and a new fluorescent dye set. <i>Chemical Physics Letters</i> , 1997, 279, 282-288.	1.2	16
44	Fluorescent Probes and Delivery Methods for Single-Molecule Experiments. <i>ChemPhysChem</i> , 2010, 11, 43-53.	1.0	16
45	Live-Cell Localization Microscopy with a Fluorogenic and Self-Blinking Tetrazine Probe. <i>Angewandte Chemie</i> , 2020, 132, 814-820.	1.6	16
46	Mandipropamid as a chemical inducer of proximity for in vivo applications. <i>Nature Chemical Biology</i> , 2022, 18, 64-69.	3.9	15
47	Unravelling the Kinetic Model of Photochemical Reactions via Deep Learning. <i>Journal of Physical Chemistry B</i> , 2020, 124, 6358-6368.	1.2	14
48	A two-color fluorogenic carbene complex for tagging olefins via metathesis reaction. <i>Methods and Applications in Fluorescence</i> , 2015, 3, 044001.	1.1	13
49	Is Cu <sup>II</sup> Coordinated to Patellamides inside <i>Prochloron</i> Cells?. <i>Chemistry - A European Journal</i> , 2017, 23, 12264-12274.	1.7	13
50	Cell Fixation by Light-Triggered Release of Glutaraldehyde. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4724-4728.	7.2	13
51	Fluorescence Properties of Carba Nicotinamide Adenine Dinucleotide for Glucose Sensing. <i>ChemPhysChem</i> , 2012, 13, 1302-1306.	1.0	10
52	Monitoring hydroquinone-quinone redox cycling by single molecule fluorescence spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19550-19555.	1.3	10
53	Cu-selective bispidine-dye conjugates. <i>Journal of Inorganic Biochemistry</i> , 2015, 148, 78-83.	1.5	10
54	Correlated receptor transport processes buffer single-cell heterogeneity. <i>PLoS Computational Biology</i> , 2017, 13, e1005779.	1.5	10

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55	Observation of Unusual Molecular Diffusion Behaviour below the Lower Critical Solution Temperature of Water/2-Butoxyethanol Mixtures by using Fluorescence Correlation Spectroscopy. ChemPhysChem, 2014, 15, 3832-3838.	1.0	9
56	An update on molecular counting in fluorescence microscopy. International Journal of Biochemistry and Cell Biology, 2021, 135, 105978.	1.2	9
57	Differentiation between Shallow and Deep Charge Trap States on Single Poly(3-hexylthiophene) Chains through Fluorescence Photon Statistics. ChemPhysChem, 2015, 16, 3578-3583.	1.0	8
58	Single-Molecule Fluorescence Studies Reveal Long-Range Electron-Transfer Dynamics Through Double-Stranded DNA. ChemPhysChem, 2009, 10, 629-633.	1.0	7
59	Flexibility of Short-Strand RNA in Aqueous Solution as Revealed by Molecular Dynamics Simulation: Are A-RNA and A'-RNA Distinct Conformational Structures?. Australian Journal of Chemistry, 2009, 62, 1054.	0.5	7
60	A Fluorescent Blue Phosphazene Dye: Synthesis, Structure and Optical Properties of 1,6-Bis(Dimethylamino)-2,5,7,10-Tetraazo-1,6-diphosphapyrene. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 547-555.	1.0	7
61	Photon Antibunching in Single Molecule Fluorescence Spectroscopy. Springer Series on Fluorescence, 2014, , 159-190.	0.8	7
62	Novel Singly Labelled Probes for Identification of Microorganisms, Detection of Antibiotic Resistance Genes and Mutations, and Tumor Diagnosis (SMART PROBES). , 2006, , 167-230.		6
63	Monitoring Cu <sup>2+</sup> -Binding to a DNA-Cliphen Conjugate and Metal-Centered Redox Processes by a Fluorescent Reporter Group. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 1636-1639.	0.6	6
64	Ligand-sensitized lanthanide(III) luminescence with octadentate bispidines. Inorganica Chimica Acta, 2019, 484, 464-468.	1.2	6
65	Optische Einzelmolekülspektroskopie. Einblicke in den Nanokosmos. Chemie in Unserer Zeit, 2008, 42, 192-199.	0.1	5
66	Single-molecule studies on individual metal complexes. , 2007, , .		4
67	Reversible Chemical Reactions for Single-Color Multiplexing Microscopy. ChemPhysChem, 2014, 15, 2331-2336.	1.0	4
68	Single molecule fluorescence spectroscopy: approaches toward quantitative investigations of structure and dynamics in living cells. , 2006, , .		3
69	Copper(II)-induced Fluorescence Quenching of a BODIPY Fluorophore. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 735-739.	0.6	3
70	New Techniques for DNA Sequencing Based on Diode Laser Excitation and Time-Resolved Fluorescence Detection. Springer Series on Fluorescence, 2001, , 303-329.	0.8	3
71	Counting single molecules in living cells at high resolution by spectrally resolved fluorescence lifetime imaging microscopy (SFLIM) and coincidence analysis. , 2005, 5699, 141.		2
72	Direct Monitoring of Formation and Dissociation of Individual Metal Complexes by Single-Molecule Fluorescence Spectroscopy. Angewandte Chemie - International Edition, 2007, 46, 5049-5049.	7.2	2

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73	Quantification of fluorescent samples by photon-antibunching. Proceedings of SPIE, 2012, , .	0.8	2
74	Fluorescence lifetime-based glucose sensor using NADH. , 2012, , .		2
75	Precise quantification of transcription factors in a surface-based single-molecule assay. Biophysical Chemistry, 2013, 184, 1-7.	1.5	2
76	Two-Color Single-Molecule Tracking in Live Cells. Methods in Molecular Biology, 2017, 1663, 127-138.	0.4	2
77	Inside Cover: Direct Monitoring of Formation and Dissociation of Individual Metal Complexes by Single-Molecule Fluorescence Spectroscopy (Angew. Chem. Int. Ed. 18/2007). Angewandte Chemie - International Edition, 2007, 46, 3158-3158.	7.2	1
78	Motion analysis of receptors and ligands in high resolution fluorescence microscopy images. , 2015, , .		1
79	Cell Fixation by Light-Triggered Release of Glutaraldehyde. Angewandte Chemie, 2017, 129, 4802-4806.	1.6	1
80	Single-Molecule Spectroscopy. , 2017, , 84-88.		1
81	Id1 and Id3 Are Regulated Through Matrix-Assisted Autocrine BMP Signaling and Represent Therapeutic Targets in Melanoma. Advanced Therapeutics, 2021, 4, 2000065.	1.6	1
82	Spectrally resolved fluorescence lifetime imaging microscopy (SFLIM) and coincidence analysis: new tools to study the organization of biomolecular machines. , 2003, , .		0
83	Probing conformational dynamics by photoinduced electron transfer. , 2004, 5322, 8.		0
84	Approaches to quantitative single-molecule studies in living cells. , 2007, , .		0
85	Molecular Counting with Calibrated Labeling and Quantitative Fluorescence Microscopy. Biophysical Journal, 2020, 118, 311a.	0.2	0
86	Tracking of Particles in Fluorescence Microscopy Images Using a Spatial Distance Model for Brownian Motion. , 2020, , .		0
87	Fluorescent Nucleic Acid Probes in Living Cells. , 2013, , 291-328.		0
88	Fluorescent Nucleic Acid Probes in Living Cells. , 2013, , 291-328.		0