

Dirk Peter Herten

List of Publications by Year in descending order

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Version: 2024-02-01

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	Mandipropamid as a chemical inducer of proximity for in vivo applications. <i>Nature Chemical Biology</i> , 2022, 18, 64-69.	3.9	15
2	Id1 and Id3 Are Regulated Through Matrix-Assisted Autocrine BMP Signaling and Represent Therapeutic Targets in Melanoma. <i>Advanced Therapeutics</i> , 2021, 4, 2000065.	1.6	1
3	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
4	An update on molecular counting in fluorescence microscopy. <i>International Journal of Biochemistry and Cell Biology</i> , 2021, 135, 105978.	1.2	9
5	Correlative 3D microscopy of single cells using super-resolution and scanning ion-conductance microscopy. <i>Nature Communications</i> , 2021, 12, 4565.	5.8	25
6	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
7	Photobleaching step analysis for robust determination of protein complex stoichiometries. <i>Molecular Biology of the Cell</i> , 2021, 32, ar35.	0.9	18
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	Live-Cell Localization Microscopy with a Fluorogenic and Self-Blinking Tetrazine Probe. <i>Angewandte Chemie</i> , 2020, 132, 814-820.	1.6	16
10	Forces during cellular uptake of viruses and nanoparticles at the ventral side. <i>Nature Communications</i> , 2020, 11, 32.	5.8	35
11	Molecular Counting with Calibrated Labeling and Quantitative Fluorescence Microscopy. <i>Biophysical Journal</i> , 2020, 118, 311a.	0.2	0
12	Tracking of Particles in Fluorescence Microscopy Images Using a Spatial Distance Model for Brownian Motion. , 2020, , .		0
13	Unravelling the Kinetic Model of Photochemical Reactions via Deep Learning. <i>Journal of Physical Chemistry B</i> , 2020, 124, 6358-6368.	1.2	14
14	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
15	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
16	Ligand-sensitized lanthanide(III) luminescence with octadentate bispidines. <i>Inorganica Chimica Acta</i> , 2019, 484, 464-468.	1.2	6
17	Copper(II)-induced Fluorescence Quenching of a BODIPY Fluorophore. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 735-739.	0.6	3
18	Is Cu ^{II} Coordinated to Patellamides inside <i>Prochloron</i> Cells?. <i>Chemistry - A European Journal</i> , 2017, 23, 12264-12274.	1.7	13

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19	Cell Fixation by Light-Triggered Release of Glutaraldehyde. <i>Angewandte Chemie</i> , 2017, 129, 4802-4806.	1.6	1
20	Time-resolved molecule counting by photon statistics across the visible spectrum. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8962-8969.	1.3	21
21	Cell Fixation by Light-Triggered Release of Glutaraldehyde. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4724-4728.	7.2	13
22	Two-Color Single-Molecule Tracking in Live Cells. <i>Methods in Molecular Biology</i> , 2017, 1663, 127-138.	0.4	2
23	Correlated receptor transport processes buffer single-cell heterogeneity. <i>PLoS Computational Biology</i> , 2017, 13, e1005779.	1.5	10
24	Single-Molecule Spectroscopy. , 2017, , 84-88.		1
25	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
26	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
27	Differentiation between Shallow and Deep Charge Trap States on Single Poly(3-hexylthiophene) Chains through Fluorescence Photon Statistics. <i>ChemPhysChem</i> , 2015, 16, 3578-3583.	1.0	8
28	Cull-selective bispidine-dye conjugates. <i>Journal of Inorganic Biochemistry</i> , 2015, 148, 78-83.	1.5	10
29	Motion analysis of receptors and ligands in high resolution fluorescence microscopy images. , 2015, , .		1
30	Tetraguanidino-functionalized phenazine and fluorene dyes: synthesis, optical properties and metal coordination. <i>Dalton Transactions</i> , 2015, 44, 3467-3485.	1.6	35
31	Automated Analysis of Single-Molecule Photobleaching Data by Statistical Modeling of Spot Populations. <i>Biophysical Journal</i> , 2015, 109, 2352-2362.	0.2	32
32	Observation of Unusual Molecular Diffusion Behaviour below the Lower Critical Solution Temperature of Water/2-Butoxyethanol Mixtures by using Fluorescence Correlation Spectroscopy. <i>ChemPhysChem</i> , 2014, 15, 3832-3838.	1.0	9
33	Photon Antibunching in Single Molecule Fluorescence Spectroscopy. <i>Springer Series on Fluorescence</i> , 2014, , 159-190.	0.8	7
34	Single-Molecule Studies on the Label Number Distribution of Fluorescent Markers. <i>ChemPhysChem</i> , 2014, 15, 734-742.	1.0	21
35	Monitoring hydroquinone-quinone redox cycling by single molecule fluorescence spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19550-19555.	1.3	10
36	Reversible Chemical Reactions for Single-Color Multiplexing Microscopy. <i>ChemPhysChem</i> , 2014, 15, 2331-2336.	1.0	4

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37	Precise quantification of transcription factors in a surface-based single-molecule assay. <i>Biophysical Chemistry</i> , 2013, 184, 1-7.	1.5	2
38	Ensemble and Single-Molecule Studies on Fluorescence Quenching in Transition Metal Bipyridine-Complexes. <i>PLoS ONE</i> , 2013, 8, e58049.	1.1	20
39	Distinguishing Alternative Reaction Pathways by Single-Molecule Fluorescence Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6322-6325.	7.2	62
40	Counting Fluorescent Dye Molecules on DNA Origami by Means of Photon Statistics. <i>Small</i> , 2013, 9, 4061-4068.	5.2	29
41	The Shape of Protein Crowders is a Major Determinant of Protein Diffusion. <i>Biophysical Journal</i> , 2013, 104, 1576-1584.	0.2	77
42	Microscale thermophoresis provides insights into mechanism and thermodynamics of ribozyme catalysis. <i>RNA Biology</i> , 2013, 10, 1815-1821.	1.5	18
43	Monitoring Cu ²⁺ -Binding to a DNA-Clepten Conjugate and Metal-Centered Redox Processes by a Fluorescent Reporter Group. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 1636-1639.	0.6	6
44	Fluorescent Nucleic Acid Probes in Living Cells. , 2013, , 291-328.		0
45	Fluorescent Nucleic Acid Probes in Living Cells. , 2013, , 291-328.		0
46	Quantification of fluorescent samples by photon-antibunching. <i>Proceedings of SPIE</i> , 2012, , .	0.8	2
47	Fluorescence lifetime-based glucose sensor using NADH. , 2012, , .		2
48	Fluorescence Properties of Carba Nicotinamide Adenine Dinucleotide for Glucose Sensing. <i>ChemPhysChem</i> , 2012, 13, 1302-1306.	1.0	10
49	A Fluorescent Blue Phosphazene Dye: Synthesis, Structure and Optical Properties of 1,6-Bis(Dimethylamino)-2,5,7,10-Tetraaza-1,6-Diphosphapyrene. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011, 637, 547-555.	0.6	7
50	Far-Field Nanoscopy with Reversible Chemical Reactions. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2940-2945.	7.2	43
51	Fluorescence Quenching of Quantum Dots by DNA Nucleotides and Amino Acids. <i>Australian Journal of Chemistry</i> , 2011, 64, 512.	0.5	21
52	An extended scheme for counting fluorescent molecules by photon-antibunching. <i>Laser Physics</i> , 2010, 20, 119-124.	0.6	26
53	Fluorescent Probes and Delivery Methods for Single-Molecule Experiments. <i>ChemPhysChem</i> , 2010, 11, 43-53.	1.0	16
54	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

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55	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
56	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
57	Single-Molecule Fluorescence Studies Reveal Long-Range Electron-Transfer Dynamics Through Double-Stranded DNA. <i>ChemPhysChem</i> , 2009, 10, 629-633.	1.0	7
58	Analysis of Single-Molecule Fluorescence Spectroscopic Data with a Markov-Modulated Poisson Process. <i>ChemPhysChem</i> , 2009, 10, 2486-2495.	1.0	18
59	Flexibility of Short-Strand RNA in Aqueous Solution as Revealed by Molecular Dynamics Simulation: Are A-RNA and A ⁺ -RNA Distinct Conformational Structures?. <i>Australian Journal of Chemistry</i> , 2009, 62, 1054.	0.5	7
60	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
61	Optische Einzelmolekülspektroskopie. Einblicke in den Nanokosmos. <i>Chemie in Unserer Zeit</i> , 2008, 42, 192-199.	0.1	5
62	A Conformational Change in the β -subunit of Coatamer Induced by Ligand Binding to β -COP Revealed by Single-pair FRET. <i>Traffic</i> , 2008, 9, 597-607.	1.3	26
63	Single-molecule studies on individual metal complexes. , 2007, , .		4
64	Approaches to quantitative single-molecule studies in living cells. , 2007, , .		0
65	Imaging Diffusion in Living Cells Using Time-Correlated Single-Photon Counting. <i>Analytical Chemistry</i> , 2007, 79, 7340-7345.	3.2	21
66	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
67	Inside Cover: Direct Monitoring of Formation and Dissociation of Individual Metal Complexes by Single-Molecule Fluorescence Spectroscopy (<i>Angew. Chem. Int. Ed.</i> 18/2007). <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3158-3158.	7.2	1
68	Direct Monitoring of Formation and Dissociation of Individual Metal Complexes by Single-Molecule Fluorescence Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5049-5049.	7.2	2
69	Novel Singly Labelled Probes for Identification of Microorganisms, Detection of Antibiotic Resistance Genes and Mutations, and Tumor Diagnosis (SMART PROBES). , 2006, , 167-230.		6
70	Single molecule fluorescence spectroscopy: approaches toward quantitative investigations of structure and dynamics in living cells. , 2006, , .		3
71	Fluorescence lifetime of gas-phase toluene at elevated temperatures. <i>Chemical Physics Letters</i> , 2006, 426, 248-251.	1.2	17
72	Counting single molecules in living cells at high resolution by spectrally resolved fluorescence lifetime imaging microscopy (SFLIM) and coincidence analysis. , 2005, 5699, 141.		2

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73	High-Resolution Colocalization of Single Molecules within the Resolution Gap of Far-Field Microscopy. <i>ChemPhysChem</i> , 2005, 6, 949-955.	1.0	25
74	Fluorescent Sensor for Cu ²⁺ with a Tunable Emission Wavelength. <i>Inorganic Chemistry</i> , 2005, 44, 5661-5666.	1.9	100
75	Species-Specific Identification of Mycobacterial 16S rRNA PCR Amplicons Using Smart Probes. <i>Analytical Chemistry</i> , 2005, 77, 7195-7203.	3.2	59
76	Higher-Excited-State Photophysical Pathways in Multichromophoric Systems Revealed by Single-Molecule Fluorescence Spectroscopy. <i>ChemPhysChem</i> , 2004, 5, 1786-1790.	1.0	72
77	Probing conformational dynamics by photoinduced electron transfer. , 2004, 5322, 8.		0
78	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
79	Spectrally resolved fluorescence lifetime imaging microscopy (SFLIM) and coincidence analysis: new tools to study the organization of biomolecular machines. , 2003, , .		0
80	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
81	High-Resolution Colocalization of Single Dye Molecules by Fluorescence Lifetime Imaging Microscopy. <i>Analytical Chemistry</i> , 2002, 74, 3511-3517.	3.2	107
82	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
83	New Techniques for DNA Sequencing Based on Diode Laser Excitation and Time-Resolved Fluorescence Detection. <i>Springer Series on Fluorescence</i> , 2001, , 303-329.	0.8	3
84	Confocal Fluorescence Lifetime Imaging Microscopy (FLIM) at the Single Molecule Level. <i>Single Molecules</i> , 2000, 1, 215-223.	1.7	66
85	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
86	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
87	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
88	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