

Thorben Cordes

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

3,356
citations

33
h-index

57
g-index

110
ext. papers

4,148
ext. citations

7.9
avg, IF

5.29
L-index

#	Paper	IF	Citations
85	The fork protection complex recruits FACT to reorganize nucleosomes during replication.. <i>Nucleic Acids Research</i> , 2022 ,	20.1	3
84	Multi-parameter photon-by-photon hidden Markov modeling.. <i>Nature Communications</i> , 2022 , 13, 1000	17.4	1
83	Targetable Conformationally Restricted Cyanines Enable Photon-Count-Limited Applications*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26685-26693	16.4	0
82	Molecular structure, DNA binding mode, photophysical properties and recommendations for use of SYBR Gold. <i>Nucleic Acids Research</i> , 2021 , 49, 5143-5158	20.1	6
81	Structural and biophysical characterization of the tandem substrate-binding domains of the ABC importer GlnPQ. <i>Open Biology</i> , 2021 , 11, 200406	7	2
80	Molecular and Spectroscopic Characterization of Green and Red Cyanine Fluorophores from the Alexa Fluor and AF Series*. <i>ChemPhysChem</i> , 2021 , 22, 1566-1583	3.2	9
79	Characterization of Fluorescent Proteins with Intramolecular Photostabilization*. <i>ChemBioChem</i> , 2021 , 22, 3283-3291	3.8	2
78	Triggering Closure of a Sialic Acid TRAP Transporter Substrate Binding Protein through Binding of Natural or Artificial Substrates. <i>Journal of Molecular Biology</i> , 2021 , 433, 166756	6.5	3
77	Single-molecule studies of conformational states and dynamics in the ABC importer OpuA. <i>FEBS Letters</i> , 2021 , 595, 717-734	3.8	3
76	A Trap-Door Mechanism for Zinc Acquisition by AdcA. <i>MBio</i> , 2021 , 12,	7.8	5
75	FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices. <i>ELife</i> , 2021 , 10,	8.9	43
74	Molecular and Spectroscopic Characterization of Green and Red Cyanine Fluorophores from the Alexa Fluor and AF Series. <i>ChemPhysChem</i> , 2021 , 22, 1546	3.2	
73	Structural Dynamics of the Functional Nonameric Type III Translocase Export Gate. <i>Journal of Molecular Biology</i> , 2021 , 433, 167188	6.5	1
72	Self-Healing Dyes-Keeping the Promise?. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4462-4480	6.4	13
71	Kinetic Modelling of Transport Inhibition by Substrates in ABC Importers. <i>Journal of Molecular Biology</i> , 2020 , 432, 5565-5576	6.5	2
70	An integrated transport mechanism of the maltose ABC importer. <i>Research in Microbiology</i> , 2019 , 170, 321-337	4	33
69	On the impact of competing intra- and intermolecular triplet-state quenching on photobleaching and photoswitching kinetics of organic fluorophores. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 3721-3733	3.6	15

68	ABCE1 Controls Ribosome Recycling by an Asymmetric Dynamic Conformational Equilibrium. <i>Cell Reports</i> , 2019 , 28, 723-734.e6	10.6	19
67	ColiCoords: A Python package for the analysis of bacterial fluorescence microscopy data. <i>PLoS ONE</i> , 2019 , 14, e0217524	3.7	3
66	Single-Molecule Observation of Ligand Binding and Conformational Changes in FeuA. <i>Biophysical Journal</i> , 2019 , 117, 1642-1654	2.9	14
65	Conformational and dynamic plasticity in substrate-binding proteins underlies selective transport in ABC importers. <i>ELife</i> , 2019 , 8,	8.9	59
64	Author response: Conformational and dynamic plasticity in substrate-binding proteins underlies selective transport in ABC importers 2019 ,		2
63	Self-healing dyes for super-resolution fluorescence microscopy. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 034001	3	16
62	Toward dynamic structural biology: Two decades of single-molecule Föster resonance energy transfer. <i>Science</i> , 2018 , 359,	33.3	251
61	Photoisomerization of hemithioindigo compounds: Combining solvent- and substituent- effects into an advanced reaction model. <i>Chemical Physics</i> , 2018 , 515, 614-621	2.3	8
60	Konformationsbewegungen von aktiven Membrantransportern. <i>BioSpektrum</i> , 2018 , 24, 495-497	0.1	1
59	Conformational dynamics of the ABC transporter McjD seen by single-molecule FRET. <i>EMBO Journal</i> , 2018 , 37,	13	36
58	Precision and accuracy of single-molecule FRET measurements-a multi-laboratory benchmark study. <i>Nature Methods</i> , 2018 , 15, 669-676	21.6	188
57	Caging and Photoactivation in Single-Molecule Föster Resonance Energy Transfer Experiments. <i>Biochemistry</i> , 2017 , 56, 2031-2041	3.2	10
56	Föster resonance energy transfer and protein-induced fluorescence enhancement as synergetic multi-scale molecular rulers. <i>Scientific Reports</i> , 2016 , 6, 33257	4.9	47
55	A simple and versatile design concept for fluorophore derivatives with intramolecular photostabilization. <i>Nature Communications</i> , 2016 , 7, 10144	17.4	69
54	Light-Switchable Peptides with a Hemithioindigo Unit: Peptide Design, Photochromism, and Optical Spectroscopy. <i>ChemPhysChem</i> , 2016 , 17, 1252-63	3.2	62
53	A Quantitative Theoretical Framework For Protein-Induced Fluorescence Enhancement-Föster-Type Resonance Energy Transfer (PIFE-FRET). <i>Journal of Physical Chemistry B</i> , 2016 , 120, 6401-10	3.4	40
52	Single-molecule FRET reveals the pre-initiation and initiation conformations of influenza virus promoter RNA. <i>Nucleic Acids Research</i> , 2016 , 44, 10304-10315	20.1	27
51	Intramolecular photostabilization via triplet-state quenching: design principles to make organic fluorophores "self-healing". <i>Faraday Discussions</i> , 2015 , 184, 221-35	3.6	22

50	Watching conformational dynamics of ABC transporters with single-molecule tools. <i>Biochemical Society Transactions</i> , 2015 , 43, 1041-7	5.1	22
49	Quantum optics, molecular spectroscopy and low-temperature spectroscopy: general discussion. <i>Faraday Discussions</i> , 2015 , 184, 275-303	3.6	13
48	Plasmonics, Tracking and Manipulating, and Living Cells: general discussion. <i>Faraday Discussions</i> , 2015 , 184, 451-73	3.6	9
47	The 2015 super-resolution microscopy roadmap. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 443001	3	211
46	Conformational dynamics in substrate-binding domains influences transport in the ABC importer GlnPQ. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 57-64	17.6	84
45	The Power of Two: Covalent Coupling of Photostabilizers for Fluorescence Applications. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3792-8	6.4	32
44	Selective functionalization of patterned glass surfaces. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 2606-2615	6.15	6
43	Alternating-laser excitation: single-molecule FRET and beyond. <i>Chemical Society Reviews</i> , 2014 , 43, 1156-1175	5.815	117
42	Opportunities and challenges in single-molecule and single-particle fluorescence microscopy for mechanistic studies of chemical reactions. <i>Nature Chemistry</i> , 2013 , 5, 993-9	17.6	117
41	The transcription bubble of the RNA polymerase-promoter open complex exhibits conformational heterogeneity and millisecond-scale dynamics: implications for transcription start-site selection. <i>Journal of Molecular Biology</i> , 2013 , 425, 875-85	6.5	61
40	The photochemical ring opening reaction of chromene as seen by transient absorption and fluorescence spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2013 , 12, 1202-9	4.2	21
39	Mechanism of intramolecular photostabilization in self-healing cyanine fluorophores. <i>ChemPhysChem</i> , 2013 , 14, 4084-93	3.2	57
38	Light-switchable hemithioindigo-hemistilbene-containing peptides: ultrafast spectroscopy of the Z → E isomerization of the chromophore and the structural dynamics of the peptide moiety. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 4181-91	3.4	47
37	Selective functionalization of tailored nanostructures. <i>ACS Nano</i> , 2012 , 6, 9214-20	16.7	11
36	Self-healing dyes: intramolecular stabilization of organic fluorophores. <i>Nature Methods</i> , 2012 , 9, 426-7; author reply 427-8	21.6	59
35	Linking single-molecule blinking to chromophore structure and redox potentials. <i>ChemPhysChem</i> , 2012 , 13, 931-7	3.2	36
34	Far-Field Nanoscopy with Conventional Fluorophores: Photostability, Photophysics, and Transient Binding. <i>Springer Series on Fluorescence</i> , 2012 , 215-242	0.5	2
33	Mechanisms and advancement of antifading agents for fluorescence microscopy and single-molecule spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 6699-709	3.6	65

32	Folding and unfolding of light-triggered hairpin model peptides. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 5219-26	3.4	21
31	Intrinsically resolution enhancing probes for confocal microscopy. <i>Nano Letters</i> , 2010 , 10, 672-9	11.5	23
30	Sensing DNA opening in transcription using quenchable Förster resonance energy transfer. <i>Biochemistry</i> , 2010 , 49, 9171-80	3.2	38
29	Molecular driving forces for Z/E isomerization mediated by heteroatoms: the example hemithioindigo. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 13016-30	2.8	51
28	Resolving single-molecule assembled patterns with superresolution blink-microscopy. <i>Nano Letters</i> , 2010 , 10, 645-51	11.5	68
27	Single-molecule redox blinking of perylene diimide derivatives in water. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2404-9	16.4	47
26	Make them blink: probes for super-resolution microscopy. <i>ChemPhysChem</i> , 2010 , 11, 2475-90	3.2	161
25	Controlling the emission of organic dyes for high sensitivity and super-resolution microscopy 2009 ,		3
24	Excitation wavelength dependent pump-probe signatures of molecular crystals. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 96, 99-106	2.6	2
23	The complex photo-rearrangement of a heterocyclic N-oxide: Kinetics from picoseconds to minutes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009 , 206, 10-17	4.7	3
22	Ultrafast Hemithioindigo-based peptide-switches. <i>Chemical Physics</i> , 2009 , 358, 103-110	2.3	38
21	On the mechanism of Trolox as antiblinking and antibleaching reagent. <i>Journal of the American Chemical Society</i> , 2009 , 131, 5018-9	16.4	218
20	Controlling the fluorescence of ordinary oxazine dyes for single-molecule switching and superresolution microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 8107-12	11.5	224
19	Photochromic bis(thiophen-3-yl)maleimides studied with time-resolved spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 1033-9	2.8	15
18	Wavelength and solvent independent photochemistry: the electrocyclic ring-closure of indolylfulgides. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 528-34	4.2	22
17	Single-molecule photophysics of oxazines on DNA and its application in a FRET switch. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 486-96	4.2	51
16	Synthesis of novel photochromic pyrans via palladium-mediated reactions. <i>Beilstein Journal of Organic Chemistry</i> , 2009 , 5, 25	2.5	18
15	The Hammett relationship and reactions in the excited electronic state: hemithioindigo Z/E-photoisomerization. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 581-8	2.8	62

14	Accelerated and efficient photochemistry from higher excited electronic states in fulgide molecules. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 13364-71	2.8	38
13	Chemical control of Hemithioindigo-photoisomerization ▯ Substituent-effects on different molecular parts. <i>Chemical Physics Letters</i> , 2008 , 455, 197-201	2.5	44
12	Photochemical Z-->E isomerization of a hemithioindigo/hemistilbene omega-amino acid. <i>ChemPhysChem</i> , 2007 , 8, 1713-21	3.2	33
11	Slower processes of the ultrafast photo-isomerization of an azobenzene observed by IR spectroscopy. <i>Chemical Physics</i> , 2007 , 341, 258-266	2.3	17
10	Light-triggered beta-hairpin folding and unfolding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 15729-34	11.5	82
9	Hemithioindigo-based photoswitches as ultrafast light trigger in chromopeptides. <i>Chemical Physics Letters</i> , 2006 , 428, 167-173	2.5	61
8	Micro-structured electrode arrays:. <i>Vacuum</i> , 2004 , 73, 327-332	3.7	12
7	Inferring kinetic rate constants from single-molecule FRET trajectories ▯ blind benchmark of kinetic analysis tools		1
6	Targetable Conformationally Restricted Cyanines Enable Photon-Count-Limited Applications**. <i>Angewandte Chemie</i> ,	3.6	1
5	Characterization of fluorescent proteins with intramolecular photostabilization		3
4	Molecular and spectroscopic characterization of green and red cyanine fluorophores from the Alexa Fluor and AF series		3
3	Cross-validation of distance measurements in proteins by PELDOR/DEER and single-molecule FRET		3
2	Fluorescence resonance energy transfer and protein-induced fluorescence enhancement as synergetic multi-scale molecular rulers		2
1	Multi-parameter photon-by-photon hidden Markov modeling		2