

# Thorben Cordes

## List of Publications by Citations

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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	Toward dynamic structural biology: Two decades of single-molecule Förster resonance energy transfer. <i>Science</i> , <b>2018</b> , 359,	33.3	251
84	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> , <b>2009</b> , 106, 8107-12	11.5	224
83	On the mechanism of Trolox as antiblinking and antibleaching reagent. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 5018-9	16.4	218
82	The 2015 super-resolution microscopy roadmap. <i>Journal Physics D: Applied Physics</i> , <b>2015</b> , 48, 443001	3	211
81	Precision and accuracy of single-molecule FRET measurements-a multi-laboratory benchmark study. <i>Nature Methods</i> , <b>2018</b> , 15, 669-676	21.6	188
80	Make them blink: probes for super-resolution microscopy. <i>ChemPhysChem</i> , <b>2010</b> , 11, 2475-90	3.2	161
79	Alternating-laser excitation: single-molecule FRET and beyond. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 11565-11571	38.5	117
78	Opportunities and challenges in single-molecule and single-particle fluorescence microscopy for mechanistic studies of chemical reactions. <i>Nature Chemistry</i> , <b>2013</b> , 5, 993-9	17.6	117
77	Conformational dynamics in substrate-binding domains influences transport in the ABC importer GlnPQ. <i>Nature Structural and Molecular Biology</i> , <b>2015</b> , 22, 57-64	17.6	84
76	Light-triggered beta-hairpin folding and unfolding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 15729-34	11.5	82
75	A simple and versatile design concept for fluorophore derivatives with intramolecular photostabilization. <i>Nature Communications</i> , <b>2016</b> , 7, 10144	17.4	69
74	Resolving single-molecule assembled patterns with superresolution blink-microscopy. <i>Nano Letters</i> , <b>2010</b> , 10, 645-51	11.5	68
73	Mechanisms and advancement of antifading agents for fluorescence microscopy and single-molecule spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 6699-709	3.6	65
72	The Hammett relationship and reactions in the excited electronic state: hemithioindigo Z/E-photoisomerization. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 581-8	2.8	62
71	Light-Switchable Peptides with a Hemithioindigo Unit: Peptide Design, Photochromism, and Optical Spectroscopy. <i>ChemPhysChem</i> , <b>2016</b> , 17, 1252-63	3.2	62
70	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> , <b>2013</b> , 425, 875-85	6.5	61
69	Hemithioindigo-based photoswitches as ultrafast light trigger in chropeptides. <i>Chemical Physics Letters</i> , <b>2006</b> , 428, 167-173	2.5	61

68	Self-healing Porphyrins: intramolecular stabilization of organic fluorophores. <i>Nature Methods</i> , <b>2012</b> , 9, 426-7; author reply 427-8	21.6	59
67	Conformational and dynamic plasticity in substrate-binding proteins underlies selective transport in ABC importers. <i>ELife</i> , <b>2019</b> , 8,	8.9	59
66	Mechanism of intramolecular photostabilization in self-healing cyanine fluorophores. <i>ChemPhysChem</i> , <b>2013</b> , 14, 4084-93	3.2	57
65	Molecular driving forces for Z/E isomerization mediated by heteroatoms: the example hemithioindigo. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 13016-30	2.8	51
64	Single-molecule photophysics of oxazines on DNA and its application in a FRET switch. <i>Photochemical and Photobiological Sciences</i> , <b>2009</b> , 8, 486-96	4.2	51
63	Förster resonance energy transfer and protein-induced fluorescence enhancement as synergetic multi-scale molecular rulers. <i>Scientific Reports</i> , <b>2016</b> , 6, 33257	4.9	47
62	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> , <b>2012</b> , 116, 4181-91	3.4	47
61	Single-molecule redox blinking of perylene diimide derivatives in water. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 2404-9	16.4	47
60	Chemical control of Hemithioindigo-photoisomerization: Substituent-effects on different molecular parts. <i>Chemical Physics Letters</i> , <b>2008</b> , 455, 197-201	2.5	44
59	FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices. <i>ELife</i> , <b>2021</b> , 10,	8.9	43
58	A Quantitative Theoretical Framework For Protein-Induced Fluorescence Enhancement-Förster-Type Resonance Energy Transfer (PIFE-FRET). <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 6401-10	3.4	40
57	Sensing DNA opening in transcription using quenchable Förster resonance energy transfer. <i>Biochemistry</i> , <b>2010</b> , 49, 9171-80	3.2	38
56	Ultrafast Hemithioindigo-based peptide-switches. <i>Chemical Physics</i> , <b>2009</b> , 358, 103-110	2.3	38
55	Accelerated and efficient photochemistry from higher excited electronic states in fulgide molecules. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 13364-71	2.8	38
54	Linking single-molecule blinking to chromophore structure and redox potentials. <i>ChemPhysChem</i> , <b>2012</b> , 13, 931-7	3.2	36
53	Conformational dynamics of the ABC transporter McjD seen by single-molecule FRET. <i>EMBO Journal</i> , <b>2018</b> , 37,	13	36
52	An integrated transport mechanism of the maltose ABC importer. <i>Research in Microbiology</i> , <b>2019</b> , 170, 321-337	4	33
51	Photochemical Z→E isomerization of a hemithioindigo/hemistilbene omega-amino acid. <i>ChemPhysChem</i> , <b>2007</b> , 8, 1713-21	3.2	33

50	The Power of Two: Covalent Coupling of Photostabilizers for Fluorescence Applications. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 3792-8	6.4	32
49	Single-molecule FRET reveals the pre-initiation and initiation conformations of influenza virus promoter RNA. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, 10304-10315	20.1	27
48	Intrinsically resolution enhancing probes for confocal microscopy. <i>Nano Letters</i> , <b>2010</b> , 10, 672-9	11.5	23
47	Intramolecular photostabilization via triplet-state quenching: design principles to make organic fluorophores "self-healing". <i>Faraday Discussions</i> , <b>2015</b> , 184, 221-35	3.6	22
46	Watching conformational dynamics of ABC transporters with single-molecule tools. <i>Biochemical Society Transactions</i> , <b>2015</b> , 43, 1041-7	5.1	22
45	Wavelength and solvent independent photochemistry: the electrocyclic ring-closure of indolylfulgides. <i>Photochemical and Photobiological Sciences</i> , <b>2009</b> , 8, 528-34	4.2	22
44	The photochemical ring opening reaction of chromene as seen by transient absorption and fluorescence spectroscopy. <i>Photochemical and Photobiological Sciences</i> , <b>2013</b> , 12, 1202-9	4.2	21
43	Folding and unfolding of light-triggered Hairpin model peptides. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 5219-26	3.4	21
42	ABCE1 Controls Ribosome Recycling by an Asymmetric Dynamic Conformational Equilibrium. <i>Cell Reports</i> , <b>2019</b> , 28, 723-734.e6	10.6	19
41	Synthesis of novel photochromic pyrans via palladium-mediated reactions. <i>Beilstein Journal of Organic Chemistry</i> , <b>2009</b> , 5, 25	2.5	18
40	Slower processes of the ultrafast photo-isomerization of an azobenzene observed by IR spectroscopy. <i>Chemical Physics</i> , <b>2007</b> , 341, 258-266	2.3	17
39	Self-healing dyes for super-resolution fluorescence microscopy. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 034001	3	16
38	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> , <b>2019</b> , 21, 3721-3733	3.6	15
37	Photochromic bis(thiophen-3-yl)maleimides studied with time-resolved spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 1033-9	2.8	15
36	Single-Molecule Observation of Ligand Binding and Conformational Changes in FeuA. <i>Biophysical Journal</i> , <b>2019</b> , 117, 1642-1654	2.9	14
35	Self-Healing Dyes-Keeping the Promise?. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 4462-4480	6.4	13
34	Quantum optics, molecular spectroscopy and low-temperature spectroscopy: general discussion. <i>Faraday Discussions</i> , <b>2015</b> , 184, 275-303	3.6	13
33	Micro-structured electrode arrays:. <i>Vacuum</i> , <b>2004</b> , 73, 327-332	3.7	12

32	Selective functionalization of tailored nanostructures. <i>ACS Nano</i> , <b>2012</b> , 6, 9214-20	16.7	11
31	Caging and Photoactivation in Single-Molecule Förster Resonance Energy Transfer Experiments. <i>Biochemistry</i> , <b>2017</b> , 56, 2031-2041	3.2	10
30	Plasmonics, Tracking and Manipulating, and Living Cells: general discussion. <i>Faraday Discussions</i> , <b>2015</b> , 184, 451-73	3.6	9
29	Molecular and Spectroscopic Characterization of Green and Red Cyanine Fluorophores from the Alexa Fluor and AF Series*. <i>ChemPhysChem</i> , <b>2021</b> , 22, 1566-1583	3.2	9
28	Photoisomerization of hemithioindigo compounds: Combining solvent- and substituent- effects into an advanced reaction model. <i>Chemical Physics</i> , <b>2018</b> , 515, 614-621	2.3	8
27	Selective functionalization of patterned glass surfaces. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 2606-2615	2.6	6
26	Molecular structure, DNA binding mode, photophysical properties and recommendations for use of SYBR Gold. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 5143-5158	20.1	6
25	A Trap-Door Mechanism for Zinc Acquisition by AdcA. <i>MBio</i> , <b>2021</b> , 12,	7.8	5
24	ColiCoords: A Python package for the analysis of bacterial fluorescence microscopy data. <i>PLoS ONE</i> , <b>2019</b> , 14, e0217524	3.7	3
23	Controlling the emission of organic dyes for high sensitivity and super-resolution microscopy <b>2009</b> ,		3
22	The complex photo-rearrangement of a heterocyclic N-oxide: Kinetics from picoseconds to minutes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2009</b> , 206, 10-17	4.7	3
21	The fork protection complex recruits FACT to reorganize nucleosomes during replication.. <i>Nucleic Acids Research</i> , <b>2022</b> ,	20.1	3
20	Characterization of fluorescent proteins with intramolecular photostabilization		3
19	Molecular and spectroscopic characterization of green and red cyanine fluorophores from the Alexa Fluor and AF series		3
18	Cross-validation of distance measurements in proteins by PELDOR/DEER and single-molecule FRET		3
17	Triggering Closure of a Sialic Acid TRAP Transporter Substrate Binding Protein through Binding of Natural or Artificial Substrates. <i>Journal of Molecular Biology</i> , <b>2021</b> , 433, 166756	6.5	3
16	Single-molecule studies of conformational states and dynamics in the ABC importer OpuA. <i>FEBS Letters</i> , <b>2021</b> , 595, 717-734	3.8	3
15	Excitation wavelength dependent pump-probe signatures of molecular crystals. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 96, 99-106	2.6	2

14	Far-Field Nanoscopy with Conventional Fluorophores: Photostability, Photophysics, and Transient Binding. <i>Springer Series on Fluorescence</i> , <b>2012</b> , 215-242	0.5	2
13	Author response: Conformational and dynamic plasticity in substrate-binding proteins underlies selective transport in ABC importers <b>2019</b> ,		2
12	Fluorescence resonance energy transfer and protein-induced fluorescence enhancement as synergetic multi-scale molecular rulers		2
11	Kinetic Modelling of Transport Inhibition by Substrates in ABC Importers. <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 5565-5576	6.5	2
10	Multi-parameter photon-by-photon hidden Markov modeling		2
9	Structural and biophysical characterization of the tandem substrate-binding domains of the ABC importer GlnPQ. <i>Open Biology</i> , <b>2021</b> , 11, 200406	7	2
8	Characterization of Fluorescent Proteins with Intramolecular Photostabilization*. <i>ChemBioChem</i> , <b>2021</b> , 22, 3283-3291	3.8	2
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	Konformationsbewegungen von aktiven Membrantransportern. <i>BioSpektrum</i> , <b>2018</b> , 24, 495-497	0.1	1
4	Structural Dynamics of the Functional Nonameric Type III Translocase Export Gate. <i>Journal of Molecular Biology</i> , <b>2021</b> , 433, 167188	6.5	1
3	Multi-parameter photon-by-photon hidden Markov modeling.. <i>Nature Communications</i> , <b>2022</b> , 13, 1000	17.4	1
2	Targetable Conformationally Restricted Cyanines Enable Photon-Count-Limited Applications*. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 26685-26693	16.4	0
1	Molecular and Spectroscopic Characterization of Green and Red Cyanine Fluorophores from the Alexa Fluor and AF Series. <i>ChemPhysChem</i> , <b>2021</b> , 22, 1546	3.2	