

# Thorben Cordes

## List of Publications by Year in descending order

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84  
papers

4,727  
citations

109321

35  
h-index

114465

63  
g-index

110  
all docs

110  
docs citations

110  
times ranked

4767  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward dynamic structural biology: Two decades of single-molecule Frster resonance energy transfer. <i>Science</i> , 2018, 359, .	12.6	414
2	Precision and accuracy of single-molecule FRET measurementsâ€”a multi-laboratory benchmark study. <i>Nature Methods</i> , 2018, 15, 669-676.	19.0	350
3	The 2015 super-resolution microscopy roadmap. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 443001.	2.8	291
4	On the Mechanism of Trolox as Antiblinking and Antibleaching Reagent. <i>Journal of the American Chemical Society</i> , 2009, 131, 5018-5019.	13.7	287
5	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, 8107-8112.	7.1	250
6	Make them Blink: Probes for Superâ€Resolution Microscopy. <i>ChemPhysChem</i> , 2010, 11, 2475-2490.	2.1	183
7	Alternating-laser excitation: single-molecule FRET and beyond. <i>Chemical Society Reviews</i> , 2014, 43, 1156-1171.	38.1	161
8	FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices. <i>ELife</i> , 2021, 10, .	6.0	152
9	Opportunities and challenges in single-molecule and single-particle fluorescence microscopy for mechanistic studies of chemical reactions. <i>Nature Chemistry</i> , 2013, 5, 993-999.	13.6	142
10	Conformational dynamics in substrate-binding domains influences transport in the ABC importer GlnPQ. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 57-64.	8.2	119
11	A simple and versatile design concept for fluorophore derivatives with intramolecular photostabilization. <i>Nature Communications</i> , 2016, 7, 10144.	12.8	106
12	Conformational and dynamic plasticity in substrate-binding proteins underlies selective transport in ABC importers. <i>ELife</i> , 2019, 8, .	6.0	93
13	Light-triggered Î²-hairpin folding and unfolding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15729-15734.	7.1	88
14	Mechanisms and advancement of antifading agents for fluorescence microscopy and single-molecule spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6699.	2.8	78
15	The Transcription Bubble of the RNA Polymeraseâ€Promoter Open Complex Exhibits Conformational Heterogeneity and Millisecond-Scale Dynamics: Implications for Transcription Start-Site Selection. <i>Journal of Molecular Biology</i> , 2013, 425, 875-885.	4.2	77
16	Resolving Single-Molecule Assembled Patterns with Superresolution Blink-Microscopy. <i>Nano Letters</i> , 2010, 10, 645-651.	9.1	74
17	Frster resonance energy transfer and protein-induced fluorescence enhancement as synergetic multi-scale molecular rulers. <i>Scientific Reports</i> , 2016, 6, 33257.	3.3	74
18	Lightâ€Switchable Peptides with a Hemithioindigo Unit: Peptide Design, Photochromism, and Optical Spectroscopy. <i>ChemPhysChem</i> , 2016, 17, 1252-1263.	2.1	73

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19	The Hammett Relationship and Reactions in the Excited Electronic State: Hemithioindigo Z/E-Photoisomerization. <i>Journal of Physical Chemistry A</i> , 2008, 112, 581-588.	2.5	72
20	'Self-healing' dyes: intramolecular stabilization of organic fluorophores. <i>Nature Methods</i> , 2012, 9, 426-427.	19.0	72
21	Hemithioindigo-based photoswitches as ultrafast light trigger in chromopeptides. <i>Chemical Physics Letters</i> , 2006, 428, 167-173.	2.6	69
22	Mechanism of Intramolecular Photostabilization in Self-Healing Cyanine Fluorophores. <i>ChemPhysChem</i> , 2013, 14, 4084-4093.	2.1	65
23	An integrated transport mechanism of the maltose ABC importer. <i>Research in Microbiology</i> , 2019, 170, 321-337.	2.1	62
24	A Quantitative Theoretical Framework For Protein-Induced Fluorescence Enhancement of Förster-Type Resonance Energy Transfer (PIFE-FRET). <i>Journal of Physical Chemistry B</i> , 2016, 120, 6401-6410.	2.6	60
25	Single-molecule photophysics of oxazines on DNA and its application in a FRET switch. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 486-496.	2.9	59
26	Molecular Driving Forces for Z/E Isomerization Mediated by Heteroatoms: The Example Hemithioindigo. <i>Journal of Physical Chemistry A</i> , 2010, 114, 13016-13030.	2.5	58
27	Light-Switchable Hemithioindigo-Hemistilbene-Containing Peptides: Ultrafast Spectroscopy of the Z to E Isomerization of the Chromophore and the Structural Dynamics of the Peptide Moiety. <i>Journal of Physical Chemistry B</i> , 2012, 116, 4181-4191.	2.6	57
28	Conformational dynamics of the ABC transporter McjD seen by single-molecule FRET. <i>EMBO Journal</i> , 2018, 37, .	7.8	54
29	Single-Molecule Redox Blinking of Perylene Diimide Derivatives in Water. <i>Journal of the American Chemical Society</i> , 2010, 132, 2404-2409.	13.7	49
30	Chemical control of Hemithioindigo-photoisomerization: Substituent-effects on different molecular parts. <i>Chemical Physics Letters</i> , 2008, 455, 197-201.	2.6	48
31	Ultrafast Hemithioindigo-based peptide-switches. <i>Chemical Physics</i> , 2009, 358, 103-110.	1.9	42
32	Sensing DNA Opening in Transcription Using Quenchable Förster Resonance Energy Transfer. <i>Biochemistry</i> , 2010, 49, 9171-9180.	2.5	42
33	Linking Single-Molecule Blinking to Chromophore Structure and Redox Potentials. <i>ChemPhysChem</i> , 2012, 13, 931-937.	2.1	42
34	Accelerated and Efficient Photochemistry from Higher Excited Electronic States in Fulgide Molecules. <i>Journal of Physical Chemistry A</i> , 2008, 112, 13364-13371.	2.5	41
35	Photochemical Z to E Isomerization of a Hemithioindigo/Hemistilbene Amino Acid. <i>ChemPhysChem</i> , 2007, 8, 1713-1721.	2.1	35
36	The Power of Two: Covalent Coupling of Photostabilizers for Fluorescence Applications. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3792-3798.	4.6	35

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37	Self-Healing Dyes "Keeping the Promise?. Journal of Physical Chemistry Letters, 2020, 11, 4462-4480.	4.6	35
38	ABCE1 Controls Ribosome Recycling by an Asymmetric Dynamic Conformational Equilibrium. Cell Reports, 2019, 28, 723-734.e6.	6.4	34
39	Watching conformational dynamics of ABC transporters with single-molecule tools. Biochemical Society Transactions, 2015, 43, 1041-1047.	3.4	32
40	Single-molecule FRET reveals the pre-initiation and initiation conformations of influenza virus promoter RNA. Nucleic Acids Research, 2016, 44, gkw884.	14.5	32
41	Intramolecular photostabilization via triplet-state quenching: design principles to make organic fluorophores "self-healing". Faraday Discussions, 2015, 184, 221-235.	3.2	31
42	Molecular structure, DNA binding mode, photophysical properties and recommendations for use of SYBR Gold. Nucleic Acids Research, 2021, 49, 5143-5158.	14.5	31
43	On the impact of competing intra- and intermolecular triplet-state quenching on photobleaching and photoswitching kinetics of organic fluorophores. Physical Chemistry Chemical Physics, 2019, 21, 3721-3733.	2.8	30
44	Molecular and Spectroscopic Characterization of Green and Red Cyanine Fluorophores from the Alexa Fluor and AF Series**. ChemPhysChem, 2021, 22, 1566-1583.	2.1	27
45	Intrinsically Resolution Enhancing Probes for Confocal Microscopy. Nano Letters, 2010, 10, 672-679.	9.1	26
46	The photochemical ring opening reaction of chromene as seen by transient absorption and fluorescence spectroscopy. Photochemical and Photobiological Sciences, 2013, 12, 1202-1209.	2.9	26
47	Folding and Unfolding of Light-Triggered $\beta$ -Hairpin Model Peptides. Journal of Physical Chemistry B, 2011, 115, 5219-5226.	2.6	24
48	Single-Molecule Observation of Ligand Binding and Conformational Changes in FeuA. Biophysical Journal, 2019, 117, 1642-1654.	0.5	24
49	Self-healing dyes for super-resolution fluorescence microscopy. Journal Physics D: Applied Physics, 2019, 52, 034001.	2.8	24
50	Wavelength and solvent independent photochemistry: the electrocyclic ring-closure of indolylfulgides. Photochemical and Photobiological Sciences, 2009, 8, 528-534.	2.9	23
51	The fork protection complex recruits FACT to reorganize nucleosomes during replication. Nucleic Acids Research, 2022, 50, 1317-1334.	14.5	23
52	Targetable Conformationally Restricted Cyanines Enable Photon-Count-Limited Applications**. Angewandte Chemie - International Edition, 2021, 60, 26685-26693.	13.8	21
53	Synthesis of novel photochromic pyrans via palladium-mediated reactions. Beilstein Journal of Organic Chemistry, 2009, 5, 25.	2.2	19
54	Slower processes of the ultrafast photo-isomerization of an azobenzene observed by IR spectroscopy. Chemical Physics, 2007, 341, 258-266.	1.9	18

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55	Multi-parameter photon-by-photon hidden Markov modeling. <i>Nature Communications</i> , 2022, 13, 1000.	12.8	18
56	<sup>15</sup> N-Methyl deuterated rhodamines for protein labelling in sensitive fluorescence microscopy. <i>Chemical Science</i> , 2022, 13, 8605-8617.	7.4	16
57	Photochromic Bis(thiophen-3-yl)maleimides Studied with Time-Resolved Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009, 113, 1033-1039.	2.5	15
58	ColiCoords: A Python package for the analysis of bacterial fluorescence microscopy data. <i>PLoS ONE</i> , 2019, 14, e0217524.	2.5	15
59	Caging and Photoactivation in Single-Molecule Förster Resonance Energy Transfer Experiments. <i>Biochemistry</i> , 2017, 56, 2031-2041.	2.5	14
60	Selective Functionalization of Tailored Nanostructures. <i>ACS Nano</i> , 2012, 6, 9214-9220.	14.6	13
61	Quantum optics, molecular spectroscopy and low-temperature spectroscopy: general discussion. <i>Faraday Discussions</i> , 2015, 184, 275-303.	3.2	13
62	Photoisomerization of hemithioindigo compounds: Combining solvent- and substituent- effects into an advanced reaction model. <i>Chemical Physics</i> , 2018, 515, 614-621.	1.9	13
63	Micro-structured electrode arrays. <i>Vacuum</i> , 2004, 73, 327-332.	3.5	12
64	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.	4.2	10
65	Plasmonics, Tracking and Manipulating, and Living Cells: general discussion. <i>Faraday Discussions</i> , 2015, 184, 451-473.	3.2	9
66	Single-molecule studies of conformational states and dynamics in the ABC importer OpuA. <i>FEBS Letters</i> , 2021, 595, 717-734.	2.8	9
67	Structural dynamics in the evolution of a bilobed protein scaffold. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	9
68	Selective functionalization of patterned glass surfaces. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2606-2615.	5.8	8
69	A Trap-Door Mechanism for Zinc Acquisition by <i>Streptococcus pneumoniae</i> AdcA. <i>MBio</i> , 2021, 12, .	4.1	8
70	Molecular and Spectroscopic Characterization of Green and Red Cyanine Fluorophores from the Alexa Fluor and AF Series. <i>ChemPhysChem</i> , 2021, 22, 1546-1546.	2.1	8
71	Structural and biophysical characterization of the tandem substrate-binding domains of the ABC importer GlnPQ. <i>Open Biology</i> , 2021, 11, 200406.	3.6	7
72	Structural Dynamics of the Functional Nonameric Type III Translocase Export Gate. <i>Journal of Molecular Biology</i> , 2021, 433, 167188.	4.2	7

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73	Linker Molecules Convert Commercial Fluorophores into Tailored Functional Probes during Biolabelling. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	7
74	Characterization of Fluorescent Proteins with Intramolecular Photostabilization**. <i>ChemBioChem</i> , 2021, 22, 3283-3291.	2.6	6
75	Kinetic Modelling of Transport Inhibition by Substrates in ABC Importers. <i>Journal of Molecular Biology</i> , 2020, 432, 5565-5576.	4.2	5
76	Targetable conformationally restricted cyanines enable photon-count limited applications. <i>Angewandte Chemie</i> , 0, , .	2.0	5
77	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.	3.9	4
78	Controlling the emission of organic dyes for high sensitivity and super-resolution microscopy. <i>Proceedings of SPIE</i> , 2009, , .	0.8	3
79	Linker Molecules Convert Commercial Fluorophores into Tailored Functional Probes during Bio-labeling. <i>Angewandte Chemie</i> , 0, , .	2.0	3
80	Excitation wavelength dependent pump-probe signatures of Åmolecular crystals. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 96, 99-106.	2.3	2
81	Far-Field Nanoscopy with Conventional Fluorophores: Photostability, Photophysics, and Transient Binding. <i>Springer Series on Fluorescence</i> , 2012, , 215-242.	0.8	2
82	Superresolution techniques, biophysics with nanostructures, and fluorescence energy transfer: general discussion. <i>Faraday Discussions</i> , 2015, 184, 143-162.	3.2	1
83	A novel single molecule fluorescence quenching technique for measuring distances below 3 nm. <i>Biophysical Journal</i> , 2022, 121, 431a.	0.5	0
84	Innenr¼cktitelbild: Linker Molecules Convert Commercial Fluorophores into Tailored Functional Probes during Biolabelling (Angew. Chem. 19/2022). <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0