Daniel WÃ¼stner

List of Publications by Year
in descending order

94 papers	3,200 citations	186265 28 h-index	168389 53 g-index
100 all docs	100 docs citations	100 times ranked	3117 citing authors

#	Article	IF	Citations
1	Transient accumulation and bidirectional movement of KIF13B in primary cilia. Journal of Cell Science, 2023, 136, .	2.0	10
2	Computational analysis of altered one- and two-photon CD of sterols inside a protein binding pocket. Theoretical Chemistry Accounts, 2022, 141, 1.	1.4	0
3	Pathways and Mechanisms of Cellular Cholesterol Effluxâ€"Insight From Imaging. Frontiers in Cell and Developmental Biology, 2022, 10, 834408.	3.7	19
4	Dynamic Mode Decomposition of Fluorescence Loss in Photobleaching Microscopy Data for Model-Free Analysis of Protein Transport and Aggregation in Living Cells. Sensors, 2022, 22, 4731.	3.8	5
5	Direct observation of nystatin binding to the plasma membrane of living cells. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183528.	2.6	8
6	Niemann Pick C2 protein enables cholesterol transfer from endo-lysosomes to the plasma membrane for efflux by shedding of extracellular vesicles. Chemistry and Physics of Lipids, 2021, 235, 105047.	3.2	21
7	Quantitative imaging of membrane contact sites for sterol transfer between endo-lysosomes and mitochondria in living cells. Scientific Reports, 2021, 11, 8927.	3.3	19
8	Photophysical and Structural Characterization of Intrinsically Fluorescent Sterol Aggregates. Journal of Physical Chemistry B, 2021, 125, 5838-5852.	2.6	4
9	Substituted 9-Diethylaminobenzo[<i>a</i>]phenoxazin-5-ones (Nile Red Analogues): Synthesis and Photophysical Properties. Journal of Organic Chemistry, 2021, 86, 1471-1488.	3.2	19
10	Design, Synthesis, and Evaluation of a Luminescent Cholesterol Mimic. Journal of Organic Chemistry, 2021, 86, 1612-1621.	3.2	2
11	Binding and intracellular transport of 25-hydroxycholesterol by Niemann-Pick C2 protein. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183063.	2.6	11
12	Membrane organization and intracellular transport of a fluorescent analogue of 27-hydroxycholesterol. Chemistry and Physics of Lipids, 2020, 233, 105004.	3.2	8
13	One- and two-photon solvatochromism of the fluorescent dye Nile Red and its CF3, F and Br-substituted analogues. Photochemical and Photobiological Sciences, 2020, 19, 1382-1391.	2.9	15
14	Mechanistic Insight into Lipid Binding to Yeast Niemann Pick Type C2 Protein. Biochemistry, 2020, 59, 4407-4420.	2.5	9
15	Modeling the Sterol-Binding Domain of Aster-A Provides Insight into Its Multiligand Specificity. Journal of Chemical Information and Modeling, 2020, 60, 2268-2281.	5.4	4
16	Cholesterol binding to the sterol-sensing region of Niemann Pick C1 protein confines dynamics of its N-terminal domain. PLoS Computational Biology, 2020, 16, e1007554.	3.2	12
17	Title is missing!. , 2020, 16, e1007554.		0
18	Title is missing!. , 2020, 16, e1007554.		0

#	Article	IF	Citations
19	Title is missing!. , 2020, 16, e1007554.		0
20	Title is missing!. , 2020, 16, e1007554.		0
21	Steady state analysis of influx and transbilayer distribution of ergosterol in the yeast plasma membrane. Theoretical Biology and Medical Modelling, 2019, 16, 13.	2.1	3
22	Computational Characterization of a Cholesterol-Based Molecular Rotor in Lipid Membranes. Journal of Physical Chemistry B, 2019, 123, 7313-7326.	2.6	5
23	Structural Insight into Eukaryotic Sterol Transport through Niemann-Pick Type C Proteins. Cell, 2019, 179, 485-497.e18.	28.9	110
24	Photophysical investigation of two emissive nucleosides exhibiting gigantic stokes shifts. Photochemical and Photobiological Sciences, 2019, 18, 1858-1865.	2.9	2
25	Rational design of novel fluorescent analogues of cholesterol: a â€œstep-by-stepâ€•computational study. Physical Chemistry Chemical Physics, 2019, 21, 15487-15503.	2.8	6
26	Mechanism of Cholesterol Sensing in the Niemann Pick Protein (NPC1) using Molecular Dynamics Simulations. Biophysical Journal, 2019, 116, 300a.	0.5	0
27	Computational Modeling Explains the Multi Sterol Ligand Specificity of the N-Terminal Domain of Niemannâ€“Pick C1-Like 1 Protein. ACS Omega, 2019, 4, 20894-20904.	3.5	6
28	Liveâ€cell imaging of new polyene sterols for improved analysis of intracellular cholesterol transport. Journal of Microscopy, 2018, 271, 36-48.	1.8	7
29	A Discontinuous Galerkin Model for Fluorescence Loss in Photobleaching. Scientific Reports, 2018, 8, 1387.	3.3	4
30	Ergosterol is mainly located in the cytoplasmic leaflet of the yeast plasma membrane. Traffic, 2018, 19, 198-214.	2.7	62
31	Structural design of intrinsically fluorescent oxysterols. Chemistry and Physics of Lipids, 2018, 212, 26-34.	3.2	11
32	Niemann-Pick C2 protein regulates sterol transport between plasma membrane and late endosomes in human fibroblasts. Chemistry and Physics of Lipids, 2018, 213, 48-61.	3.2	19
33	A discontinuous Galerkin model for fluorescence loss in photobleaching of intracellular polyglutamine protein aggregates. BMC Biophysics, 2018, 11, 7.	4.4	1
34	Bayesian model selection with fractional Brownian motion. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 093501.	2.3	19
35	Synthesis and Live-Cell Imaging of Fluorescent Sterols for Analysis of Intracellular Cholesterol Transport. Methods in Molecular Biology, 2017, 1583, 111-140.	0.9	14
36	Quantitative Co-Localization and Pattern Analysis of Endo-Lysosomal Cargo in Subcellular Image Cytometry and Validation on Synthetic Image Sets. Methods in Molecular Biology, 2017, 1594, 93-128.	0.9	1

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37	Embedding beyond electrostaticsâ€"The role of wave function confinement. Journal of Chemical Physics, 2016, 145, 104102.	3.0	19
38	Computational Analysis of Sterol Ligand Specificity of the Niemann Pick C2 Protein. Biochemistry, 2016, 55, 5165-5179.	2.5	17
39	Imaging approaches for analysis of cholesterol distribution and dynamics in the plasma membrane. Chemistry and Physics of Lipids, 2016, 199, 106-135.	3.2	22
40	A comparative study on fluorescent cholesterol analogs as versatile cellular reporters. Journal of Lipid Research, 2016, 57, 299-309.	4.2	78
41	Potential of BODIPY-cholesterol for analysis of cholesterol transport and diffusion in living cells. Chemistry and Physics of Lipids, 2016, 194, 12-28.	3.2	32
42	Fluorescent Sterols and Cholesteryl Esters as Probes for Intracellular Cholesterol Transport. Lipid Insights, 2015, 8s1, LPI.S31617.	1.0	26
43	How cholesterol interacts with proteins and lipids during its intracellular transport. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 1908-1926.	2.6	61
44	Design of new fluorescent cholesterol and ergosterol analogs: Insights from theory. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2188-2199.	2.6	17
45	Computational modeling of fluorescence loss in photobleaching. Computing and Visualization in Science, 2015, 17, 151-166.	1.2	4
46	Photobleaching Kinetics and Time-Integrated Emission of Fluorescent Probes in Cellular Membranes. Molecules, 2014, 19, 11096-11130.	3.8	39
47	Atomistic Monte Carlo Simulation of Lipid Membranes. International Journal of Molecular Sciences, 2014, 15, 1767-1803.	4.1	6
48	<scp>SpatTrack</scp>: An Imaging Toolbox for Analysis of Vesicle Motility and Distribution in Living Cells. Traffic, 2014, 15, 1406-1429.	2.7	31
49	The Second-Order Polarization Propagator Approximation (SOPPA) method coupled to the polarizable continuum model. Computational and Theoretical Chemistry, 2014, 1040-1041, 54-60.	2.5	9
50	Dehydroergosterol as an Analogue for Cholesterol: Why It Mimics Cholesterol So Wellâ€"or Does It?. Journal of Physical Chemistry B, 2014, 118, 7345-7357.	2.6	31
51	Membrane Orientation and Lateral Diffusion of BODIPY-Cholesterol as a Function of Probe Structure. Biophysical Journal, 2013, 105, 2082-2092.	0.5	60
52	A comparison of single particle tracking and temporal image correlation spectroscopy for quantitative analysis of endosome motility. Journal of Microscopy, 2013, 252, 169-188.	1.8	15
53	Analysis of Cholesterol Trafficking with Fluorescent Probes. Methods in Cell Biology, 2012, 108, 367-393.	1.1	203
54	Following Intracellular Cholesterol Transport by Linear and Non-Linear Optical Microscopy of Intrinsically Fluorescent Sterols. Current Pharmaceutical Biotechnology, 2012, 13, 303-318.	1.6	13

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55	Two-photon time-lapse microscopy of BODIPY-cholesterol reveals anomalous sterol diffusion in chinese hamster ovary cells. BMC Biophysics, 2012, 5, 20.	4.4	16
56	Quantitative Fluorescence Studies of Intracellular Sterol Transport and Distribution. Springer Series on Fluorescence, 2012, , 185-213.	0.8	2
57	Quantitative fluorescence loss in photobleaching for analysis of protein transport and aggregation. BMC Bioinformatics, 2012, 13, 296.	2.6	46
58	The role of ABC proteins Aus1p and Pdr11p in the uptake of external sterols in yeast: Dehydroergosterol fluorescence study. Biochemical and Biophysical Research Communications, 2011, 404, 233-238.	2.1	46
59	Quantitative assessment of sterol traffic in living cells by dual labeling with dehydroergosterol and BODIPY-cholesterol. Chemistry and Physics of Lipids, 2011, 164, 221-235.	3.2	57
60	Potential of ultraviolet wideâ€field imaging and multiphoton microscopy for analysis of dehydroergosterol in cellular membranes. Microscopy Research and Technique, 2011, 74, 92-108.	2.2	26
61	Selective Visualization of Fluorescent Sterols in Caenorhabditis elegans by Bleach-Rate-Based Image Segmentation. Traffic, 2010, 11, 440-454.	2.7	39
62	Multicolor bleach-rate imaging enlightens in vivo sterol transport. Communicative and Integrative Biology, 2010, 3, 370-373.	1.4	7
63	The fluorescent cholesterol analog dehydroergosterol induces liquid-ordered domains in model membranes. Chemistry and Physics of Lipids, 2009, 159, 114-118.	3.2	37
64	Live Cell Linear Dichroism Imaging Reveals Extensive Membrane Ruffling within the Docking Structure of Natural Killer Cell Immune Synapses. Biophysical Journal, 2009, 96, L13-L15.	0.5	27
65	Intracellular Cholesterol Transport. , 2009, , 157-190.		6
66	Spatiotemporal analysis of endocytosis and membrane distribution of fluorescent sterols in living cells. Histochemistry and Cell Biology, 2008, 130, 891-908.	1.7	22
67	Chromatic aberration correction and deconvolution for UV sensitive imaging of fluorescent sterols in cytoplasmic lipid droplets. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 727-744.	1.5	20
68	Free-cholesterol loading does not trigger phase separation of the fluorescent sterol dehydroergosterol in the plasma membrane of macrophages. Chemistry and Physics of Lipids, 2008, 154, 129-136.	3.2	14
69	Kinetic imaging of NPC1L1 and sterol trafficking between plasma membrane and recycling endosomes in hepatoma cells. Journal of Lipid Research, 2008, 49, 2023-2037.	4.2	42
70	Plasma Membrane Sterol Distribution Resembles the Surface Topography of Living Cells. Molecular Biology of the Cell, 2007, 18, 211-228.	2.1	66
71	Fluorescent sterols as tools in membrane biophysics and cell biology. Chemistry and Physics of Lipids, 2007, 146, 1-25.	3.2	135
72	Quantification of polarized trafficking of transferrin and comparison with bulk membrane transport in hepatic cells. Biochemical Journal, 2006, 400, 267-280.	3.7	10

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73	Steady State Analysis and Experimental Validation of a Model for Hepatic High-Density Lipoprotein Transport. Traffic, 2006, 7, 699-715.	2.7	8
74	Using internal and collective variables in Monte Carlo simulations of nucleic acid structures: Chain breakage/closure algorithm and associated Jacobians. Journal of Computational Chemistry, 2006, 27, 309-315.	3.3	27
75	Improved visualization and quantitative analysis of fluorescent membrane sterol in polarized hepatic cells. Journal of Microscopy, 2005, 220, 47-64.	1.8	27
76	Direct Observation of Rapid Internalization and Intracellular Transport of Sterol by Macrophage Foam Cells. Traffic, 2005, 6, 396-412.	2.7	88
77	Mathematical Analysis of Hepatic High Density Lipoprotein Transport Based on Quantitative Imaging Data. Journal of Biological Chemistry, 2005, 280, 6766-6779.	3.4	34
78	Different transport routes for high density lipoprotein and its associated free sterol in polarized hepatic cells. Journal of Lipid Research, 2004, 45, 427-437.	4.2	72
79	Aminophospholipids Have No Access to the Luminal Side of the Biliary Canaliculus. Journal of Biological Chemistry, 2003, 278, 40631-40639.	3.4	16
80	Rapid Nonvesicular Transport of Sterol between the Plasma Membrane Domains of Polarized Hepatic Cells. Journal of Biological Chemistry, 2002, 277, 30325-30336.	3.4	101
81	Vesicular and Non-vesicular Sterol Transport in Living Cells. Journal of Biological Chemistry, 2002, 277, 609-617.	3.4	269
82	Rapid Transbilayer Movement of the Fluorescent Sterol Dehydroergosterol in Lipid Membranes. Biophysical Journal, 2002, 83, 1525-1534.	0.5	87
83	Rapid Nonvesicular Transport of Sterol between the Plasma Membrane Domains of Polarized Hepatic Cells. Journal of Biological Chemistry, 2002, 277, 30325-30336.	3.4	29
84	Intracellular cholesterol transport. Journal of Clinical Investigation, 2002, 110, 891-898.	8.2	254
85	Intracellular cholesterol transport. Journal of Clinical Investigation, 2002, 110, 891-898.	8.2	136
86	Vesicular and Nonvesicular Transport of Phosphatidylcholine in Polarized HepG2 Cells. Traffic, 2001, 2, 277-296.	2.7	38
87	Rapid Flip-Flop of Phospholipids in Endoplasmic Reticulum Membranes Studied by a Stopped-Flow Approach. Biophysical Journal, 2000, 78, 2628-2640.	0.5	85
88	Head group-independent interaction of phospholipids with bile salts: a fluorescence and EPR study. Journal of Lipid Research, 2000, 41, 395-404.	4.2	23
89	Head group-independent interaction of phospholipids with bile salts. A fluorescence and EPR study. Journal of Lipid Research, 2000, 41, 395-404.	4.2	15
90	Variable domain-linked oligosaccharides of a human monoclonal IgG: structure and influence on antigen binding. Biochemical Journal, 1999, 338, 529-538.	3.7	84

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91	Variable domain-linked oligosaccharides of a human monoclonal IgG: structure and influence on antigen binding. Biochemical Journal, 1999, 338, 529.	3.7	16
92	Variable domain-linked oligosaccharides of a human monoclonal IgG: structure and influence on antigen binding. Biochemical Journal, 1999, 338 (Pt 2), 529-38.	3.7	18
93	Release of Phospholipids from Erythrocyte Membranes by Taurocholate Is Determined by Their Transbilayer Orientation and Hydrophobic Backbone. Biochemistry, 1998, 37, 17093-17103.	2.5	14
94	Glycosylation analysis of a polyreactive human monoclonal IgG antibody derived from a human-mouse heterohybridoma. Molecular Immunology, 1995, 32, 595-602.	2.2	19