Ulrike Alexiev

List of Publications by Year
in descending order

53 papers	1,660 citations	279798 23 h-index	289244 40 g-index
53 all docs	53 docs citations	53 times ranked	2279 citing authors

#	Article	IF	Citations
1	Improved fluorescent phytochromes for in situ imaging. Scientific Reports, 2022, 12, 5587.	3.3	8
2	4,5-Bis(arylethynyl)-1,2,3-triazolesâ€”A New Class of Fluorescent Labels: Synthesis and Applications. Molecules, 2022, 27, 3191.	3.8	5
3	A Dual Fluorescenceâ€"Spin Label Probe for Visualization and Quantification of Target Molecules in Tissue by Multiplexed FLIMâ€"EPR Spectroscopy. Angewandte Chemie, 2021, 133, 15065-15071.	2.0	2
4	A Dual Fluorescenceâ€"Spin Label Probe for Visualization and Quantification of Target Molecules in Tissue by Multiplexed FLIMâ€"EPR Spectroscopy. Angewandte Chemie - International Edition, 2021, 60, 14938-14944.	13.8	7
5	Electronationâ€dependent structural change at the proton exit side of cytochrome c oxidase as revealed by siteâ€directed fluorescence labeling. FEBS Journal, 2020, 287, 1232-1246.	4.7	1
6	A multilayered epithelial mucosa model of head neck squamous cell carcinoma for analysis of tumor-microenvironment interactions and drug development. Biomaterials, 2020, 258, 120277.	11.4	9
7	The redox-coupled proton-channel opening in cytochrome <i>c</i> oxidase. Chemical Science, 2020, 11, 3804-3811.	7.4	6
8	Transient Deprotonation of the Chromophore Affects Protein Dynamics Proximal and Distal to the Linear Tetrapyrrole Chromophore in Phytochrome Cph1. Biochemistry, 2020, 59, 1051-1062.	2.5	6
9	Faster, sharper, more precise: Automated Cluster-FLIM in preclinical testing directly identifies the intracellular fate of theranostics in live cells and tissue. Theranostics, 2020, 10, 6322-6336.	10.0	25
10	Expanding the Scope of Reporting Nanoparticles: Sensing of Lipid Phase Transitions and Nanoviscosities in Lipid Membranes. Langmuir, 2019, 35, 11422-11434.	3.5	8
11	Core-multishell nanocarriers enhance drug penetration and reach keratinocytes and antigen-presenting cells in intact human skin. Journal of Controlled Release, 2019, 299, 138-148.	9.9	19
12	Crosstalk between core-multishell nanocarriers for cutaneous drug delivery and antigen-presenting cells of the skin. Biomaterials, 2018, 162, 60-70.	11.4	10
13	Identification of polystyrene nanoparticle penetration across intact skin barrier as rare event at sites of focal particle aggregations. Journal of Biophotonics, 2018, 11, e201700169.	2.3	18
14	Visualizing Oxidative Cellular Stress Induced by Nanoparticles in the Subcytotoxic Range Using Fluorescence Lifetime Imaging. Small, 2018, 14, e1800310.	10.0	23
15	Oxidative Stress Imaging: Visualizing Oxidative Cellular Stress Induced by Nanoparticles in the Subcytotoxic Range Using Fluorescence Lifetime Imaging (Small 23/2018). Small, 2018, 14, 1870106.	10.0	1
16	White-Light Supercontinuum Laser-Based Multiple Wavelength Excitation for TCSPC-FLIM of Cutaneous Nanocarrier Uptake. Zeitschrift Fur Physikalische Chemie, 2018, 232, 671-688.	2.8	7
17	Dendritic Core-Multishell Nanocarriers in Murine Models of Healthy and Atopic Skin. Nanoscale Research Letters, 2017, 12, 64.	5.7	20
18	Time-resolved fluorescence microscopy (FLIM) as an analytical tool in skin nanomedicine. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 116, 111-124.	4.3	39

#	Article	IF	Citations
19	Increased permeability of reconstructed human epidermis from UVB-irradiated keratinocytes. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 116, 149-154.	4.3	14
20	Protonation-Dependent Structural Heterogeneity in the Chromophore Binding Site of Cyanobacterial Phytochrome Cph1. Journal of Physical Chemistry B, 2017, 121, 47-57.	2.6	56
21	Pitfalls in using fluorescence tagging of nanomaterials: tectoâ€dendrimers in skin tissue as investigated by Clusterâ€FLIM. Annals of the New York Academy of Sciences, 2017, 1405, 202-214.	3.8	18
22	Effect of drug solubility and lipid carrier on drug release from lipid nanoparticles for dermal delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 110, 39-46.	4.3	48
23	Determination of nanostructures and drug distribution in lipid nanoparticles by single molecule microscopy. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 110, 31-38.	4.3	22
24	Poly[acrylonitrile-co-(N-vinyl pyrrolidone)] nanoparticles â€" Composition-dependent skin penetration enhancement of a dye probe and biocompatibility. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 116, 66-75.	4.3	11
25	Stratum corneum targeting by dendritic core-multishell-nanocarriers in a mouse model of psoriasis. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 317-327.	3.3	26
26	Time-Resolved Fluorescence Spectroscopy and Fluorescence Lifetime Imaging Microscopy for Characterization of Dendritic Polymer Nanoparticles and Applications in Nanomedicine. Molecules, 2017, 22, 17.	3.8	34
27	Detecting and Quantifying Biomolecular Interactions of a Dendritic Polyglycerol Sulfate Nanoparticle Using Fluorescence Lifetime Measurements. Molecules, 2016, 21, 22.	3.8	26
28	Nanocarriers for drug delivery into and through the skin â€" Do existing technologies match clinical challenges?. Journal of Controlled Release, 2016, 242, 3-15.	9.9	116
29	Light and pH-induced Changes in Structure and Accessibility of Transmembrane Helix B and Its Immediate Environment in Channelrhodopsin-2. Journal of Biological Chemistry, 2016, 291, 17382-17393.	3.4	12
30	Application of Single Molecule Fluorescence Microscopy to Characterize the Penetration of a Large Amphiphilic Molecule in the Stratum Corneum of Human Skin. International Journal of Molecular Sciences, 2015, 16, 6960-6977.	4.1	20
31	Interactions of Hyaluronic Acid with the Skin and Implications for the Dermal Delivery of Biomacromolecules. Molecular Pharmaceutics, 2015, 12, 1391-1401.	4.6	97
32	Overview about the localization of nanoparticles in tissue and cellular context by different imaging techniques. Beilstein Journal of Nanotechnology, 2015, 6, 263-280.	2.8	77
33	Temperature and environment dependent dynamic properties of a dendritic polyglycerol sulfate. Polymers for Advanced Technologies, 2014, 25, 1329-1336.	3.2	11
34	Penetration of silver nanoparticles into porcine skin<i>ex vivo</i>using fluorescence lifetime imaging microscopy, Raman microscopy, and surface-enhanced Raman scattering microscopy. Journal of Biomedical Optics, 2014, 20, 051006.	2.6	79
35	Penetration of normal, damaged and diseased skin â€" An in vitro study on dendritic coreâ€"multishell nanotransporters. Journal of Controlled Release, 2014, 185, 45-50.	9.9	79
36	Fluorescence spectroscopy of rhodopsins: Insights and approaches. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 694-709.	1.0	70

#	Article	IF	Citations
37	Nanodynamics of Dendritic Coreâ€"Multishell Nanocarriers. Langmuir, 2014, 30, 1686-1695.	3.5	33
38	Skin barrier disruptions in tape stripped and allergic dermatitis models have no effect on dermal penetration and systemic distribution of AHAPS-functionalized silica nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1571-1581.	3.3	48
39	Exploring the entrance of proton pathways in cytochrome c oxidase from Paracoccus denitrificans: Surface charge, buffer capacity and redox-dependent polarity changes at the internal surface. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 276-284.	1.0	11
40	Net Proton Uptake Is Preceded by Multiple Proton Transfer Steps upon Electron Injection into Cytochrome c Oxidase. Journal of Biological Chemistry, 2012, 287, 8187-8193.	3.4	17
41	Activation and molecular recognition of the GPCR rhodopsin â€" Insights from time-resolved fluorescence depolarisation and single molecule experiments. European Journal of Cell Biology, 2012, 91, 300-310.	3.6	26
42	Conformational dynamics of helix 8 in the GPCR rhodopsin controls arrestin activation in the desensitization process. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18690-18695.	7.1	80
43	Functional interaction structures of the photochromic retinal protein rhodopsin. Photochemical and Photobiological Sciences, 2010, 9, 226-233.	2.9	12
44	Dissection of Environmental Changes at the Cytoplasmic Surface of Lightâ€activated Bacteriorhodopsin and Visual Rhodopsin: Sequence of Spectrally Silent Steps^{â€}. Photochemistry and Photobiology, 2009, 85, 570-577.	2.5	14
45	Surface Charge Changes upon Formation of the Signaling State in Visual Rhodopsin^{â€}. Photochemistry and Photobiology, 2009, 85, 501-508.	2.5	11
46	Monitoring the Interaction of a Single G-Protein Key Binding Site with Rhodopsin Disk Membranes upon Light Activation. Biochemistry, 2009, 48, 3801-3803.	2.5	23
47	Molecular Determinants of Major Histocompatibility Complex Class I Complex Stability. Journal of Biological Chemistry, 2008, 283, 23093-23103.	3.4	20
48	Natural MHC Class I Polymorphism Controls the Pathway of Peptide Dissociation from HLA-B27 Complexes. Biophysical Journal, 2007, 93, 2743-2755.	0.5	33
49	Picosecond Multidimensional Fluorescence Spectroscopy: A Tool to Measure Real-time Protein Dynamics During Functionâ€. Photochemistry and Photobiology, 2007, 83, 378-385.	2.5	32
50	Simulation of Fluorescence Anisotropy Experiments: Probing Protein Dynamics. Biophysical Journal, 2005, 89, 3757-3770.	0.5	128
51	Differential Peptide Dynamics Is Linked to Major Histocompatibility Complex Polymorphism. Journal of Biological Chemistry, 2004, 279, 28197-28201.	3.4	82
52	Kinetics of Lightâ€Induced Intramolecular Charge Transfer and Proton Release in Bacteriorhodopsin. Israel Journal of Chemistry, 1995, 35, 401-414.	2.3	10
53	Covalently Bound pH-Indicator Dyes at Selected Extracellular or Cytoplasmic Sites in Bacteriorhodopsin. 2. Rotational Orientation of Helixes D and E and Kinetic Correlation between M Formation and Proton Release in Bacteriorhodopsin Micelles. Biochemistry, 1994, 33, 13693-13699.	2.5	50