Winfried RA¶mer

List of Publications by Year in descending order

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		147801	114465
74	4,317	31	63
papers	citations	h-index	g-index
87	87	87	5173
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#	Article	IF	CITATIONS
1	Shiga toxin induces tubular membrane invaginations for its uptake into cells. Nature, 2007, 450, 670-675.	27.8	538
2	GM1 structure determines SV40-induced membrane invagination and infection. Nature Cell Biology, 2010, 12, 11-18.	10.3	535
3	Shiga toxins — from cell biology to biomedical applications. Nature Reviews Microbiology, 2010, 8, 105-116.	28.6	449
4	Impedance Analysis and Single-Channel Recordings on Nano-Black Lipid Membranes Based on Porous Alumina. Biophysical Journal, 2004, 86, 955-965.	0.5	236
5	Actin Dynamics Drive Membrane Reorganization and Scission in Clathrin-Independent Endocytosis. Cell, 2010, 140, 540-553.	28.9	226
6	A lipid zipper triggers bacterial invasion. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12895-12900.	7.1	127
7	Red Light-Regulated Reversible Nuclear Localization of Proteins in Mammalian Cells and Zebrafish. ACS Synthetic Biology, 2015, 4, 951-958.	3.8	105
8	Injury-Driven Stiffening of the Dermis Expedites Skin Carcinoma Progression. Cancer Research, 2016, 76, 940-951.	0.9	96
9	Fucose-binding Lectin from Opportunistic Pathogen Burkholderia ambifaria Binds to Both Plant and Human Oligosaccharidic Epitopes. Journal of Biological Chemistry, 2012, 287, 4335-4347.	3.4	92
10	Channel Activity of a Viral Transmembrane Peptide in Micro-BLMs:Â Vpu1-32from HIV-1. Journal of the American Chemical Society, 2004, 126, 16267-16274.	13.7	91
11	Lipid Reorganization Induced by Shiga Toxin Clustering on Planar Membranes. PLoS ONE, 2009, 4, e6238.	2.5	90
12	A LecA Ligand Identified from a Galactosideâ€Conjugate Array Inhibits Host Cell Invasion by <i>Pseudomonas aeruginosa</i> . Angewandte Chemie - International Edition, 2014, 53, 8885-8889.	13.8	85
13	Four-dimensional live imaging of apical biosynthetic trafficking reveals a post-Golgi sorting role of apical endosomal intermediates. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4127-4132.	7.1	82
14	A first step toward liposome-mediated intracellular bacteriophage therapy. Expert Opinion on Drug Delivery, 2015, 12, 1411-1424.	5.0	71
15	Lectins from opportunistic bacteria interact with acquired variable-region glycans of surface immunoglobulin in follicular lymphoma. Blood, 2015, 125, 3287-3296.	1.4	66
16	Plasma membrane reorganization: A glycolipid gateway for microbes. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 858-871.	4.1	65
17	Photoreductive Uncaging of Fluorophore in Response to Protein Oligomers by Templated Reaction <i>in Vitro</i> and <i>in Cellulo</i> Journal of the American Chemical Society, 2012, 134, 20013-20016.	13.7	61
18	Biglycan expression in the melanoma microenvironment promotes invasiveness via increased tissue stiffness inducing integrin- \hat{l}^21 expression. Oncotarget, 2017, 8, 42901-42916.	1.8	60

#	Article	IF	Citations
19	Lipid Cosorting Mediated by Shiga Toxin Induced Tubulation. Traffic, 2010, 11, 1519-1529.	2.7	56
20	Membrane Deformation by Neolectins with Engineered Glycolipid Binding Sites. Angewandte Chemie - International Edition, 2014, 53, 9267-9270.	13.8	53
21	Influence of Gb3 glycosphingolipids differing in their fatty acid chain on the phase behaviour of solid supported membranes: chemical syntheses and impact of Shiga toxin binding. Chemical Science, 2014, 5, 3104.	7.4	48
22	Lectin-mediated protocell crosslinking to mimic cell-cell junctions and adhesion. Scientific Reports, 2018, 8, 1932.	3.3	48
23	Functionally different pools of Shiga toxin receptor, globotriaosyl ceramide, in HeLa cells. FEBS Journal, 2006, 273, 5205-5218.	4.7	43
24	Microfluidic approaches for epithelial cell layer culture and characterisation. Analyst, The, 2014, 139, 3206-3218.	3.5	42
25	The Pseudomonas aeruginosa lectin LecA triggers host cell signalling by glycosphingolipid-dependent phosphorylation of the adaptor protein Crkll. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 1236-1245.	4.1	42
26	Pseudomonas aeruginosa lectin LecB inhibits tissue repair processes by triggering \hat{l}^2 -catenin degradation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 1106-1118.	4.1	40
27	Lipid self-assembly and lectin-induced reorganization of the plasma membrane. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170117.	4.0	40
28	Reduction of Lectin Valency Drastically Changes Glycolipid Dynamics in Membranes but Not Surface Avidity. ACS Chemical Biology, 2013, 8, 1918-1924.	3.4	39
29	Dynein light chain 1 induces assembly of large Bim complexes on mitochondria that stabilize Mcl-1 and regulate apoptosis. Genes and Development, 2017, 31, 1754-1769.	5.9	39
30	Pathways of protein and lipid receptor-mediated transcytosis in drug delivery. Expert Opinion on Drug Delivery, 2017, 14, 341-351.	5.0	38
31	How synthetic membrane systems contribute to the understanding of lipid-driven endocytosis. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 2992-3005.	4.1	35
32	Carbohydrate-dependent B cell activation by fucose-binding bacterial lectins. Science Signaling, 2019, 12, .	3.6	35
33	Gb3-binding lectins as potential carriers for transcellular drug delivery. Expert Opinion on Drug Delivery, 2017, 14, 141-153.	5.0	34
34	The Pseudomonas aeruginosa Lectin LecB Causes Integrin Internalization and Inhibits Epithelial Wound Healing. MBio, 2020, 11 , .	4.1	31
35	Tailor-made Janus lectin with dual avidity assembles glycoconjugate multilayers and crosslinks protocells. Chemical Science, 2018, 9, 7634-7641.	7.4	30
36	2-Hydroxy Fatty Acid Enantiomers of Gb 3 Impact Shiga Toxin Binding and Membrane Organization. Biophysical Journal, 2015, 108, 2775-2778.	0.5	28

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37	AGAP2 regulates retrograde transport between early endosomes and the TGN. Journal of Cell Science, 2010, 123, 2381-2390.	2.0	27
38	Sub-cellular localisation of a 15N-labelled peptide vector using NanoSIMS imaging. Applied Surface Science, 2006, 252, 6925-6930.	6.1	25
39	Creating and Modulating Microdomains in Poreâ€Spanning Membranes. ChemPhysChem, 2012, 13, 108-114.	2.1	25
40	TBC1D8B Mutations Implicate RAB11-Dependent Vesicular Trafficking in the Pathogenesis of Nephrotic Syndrome. Journal of the American Society of Nephrology: JASN, 2019, 30, 2338-2353.	6.1	25
41	Induced phagocytic particle uptake into a giant unilamellar vesicle. Soft Matter, 2014, 10, 3667-3678.	2.7	23
42	Structural Diversities of Lectins Binding to the Glycosphingolipid Gb3. Frontiers in Molecular Biosciences, 2021, 8, 704685.	3.5	23
43	The Gb3-enriched CD59/flotillin plasma membrane domain regulates host cell invasion by Pseudomonas aeruginosa. Cellular and Molecular Life Sciences, 2021, 78, 3637-3656.	5.4	22
44	Glycan-decorated protocells: novel features for rebuilding cellular processes. Interface Focus, 2019, 9, 20180084.	3.0	21
45	Molecular AFM imaging of Hsp70-1A association with dipalmitoyl phosphatidylserine reveals membrane blebbing in the presence of cholesterol. Cell Stress and Chaperones, 2018, 23, 673-683.	2.9	20
46	Delving into Lipid-Driven Endocytic Mechanisms Using Biomimetic Membranes. Springer Protocols, 2016, , 17-36.	0.3	19
47	Differential recognition of lipid domains by two Gb3-binding lectins. Scientific Reports, 2020, 10, 9752.	3.3	18
48	A Question of Attire: Dressing Up Bacteriophage Therapy for the Battle Against Antibiotic-Resistant Intracellular Bacteria. Springer Science Reviews, 2015, 3, 1-11.	1.3	17
49	100 Hz ROCS microscopy correlated with fluorescence reveals cellular dynamics on different spatiotemporal scales. Nature Communications, 2022, 13, 1758.	12.8	16
50	Rab12 Localizes to Shiga Toxinâ€Induced Plasma Membrane Invaginations and Controls Toxin Transport. Traffic, 2014, 15, 772-787.	2.7	15
51	The innate defense antimicrobial peptides hBD3 and RNase7 are induced in human umbilical vein endothelial cells by classical inflammatory cytokines but not Th17 cytokines. Microbes and Infection, 2015, 17, 353-359.	1.9	15
52	Multiscale Molecular Dynamics Studies Reveal Different Modes of Receptor Clustering by Gb3-Binding Lectins. Journal of Chemical Theory and Computation, 2021, 17, 2488-2501.	5.3	15
53	Glycans in autophagy, endocytosis and lysosomal functions. Glycoconjugate Journal, 2021, 38, 625-647.	2.7	15
54	Synthesis of Cholesterolâ€Substituted Glycopeptides for Tailorâ€Made Glycocalyxification of Artificial Membrane Systems. ChemBioChem, 2016, 17, 1403-1406.	2.6	14

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55	A Chlamydia pneumoniae adhesin induces phosphatidylserine exposure on host cells. Nature Communications, 2019, 10, 4644.	12.8	13
56	The Two Sweet Sides of Janus Lectin Drive Crosslinking of Liposomes to Cancer Cells and Material Uptake. Toxins, 2021, 13, 792.	3.4	12
57	<i>Pseudomonas aeruginosa</i> lectin LecB impairs keratinocyte fitness by abrogating growth factor signalling. Life Science Alliance, 2019, 2, e201900422.	2.8	11
58	Differential induction of innate defense antimicrobial peptides in primary nasal epithelial cells upon stimulation with inflammatory cytokines, Th17 cytokines or bacterial conditioned medium from Staphylococcus aureus isolates. Microbial Pathogenesis, 2016, 90, 69-77.	2.9	10
59	Synchronizing Protein Traffic to the Primary Cilium. Frontiers in Genetics, 2019, 10, 163.	2.3	10
60	Binding of SV40's Viral Capsid Protein VP1 to Its Glycosphingolipid Receptor GM1 Induces Negative Membrane Curvature: A Molecular Dynamics Study. Langmuir, 2019, 35, 3534-3544.	3.5	10
61	Quantification of nanoscale forces in lectin-mediated bacterial attachment and uptake into giant liposomes. Nanoscale, 2021, 13, 4016-4028.	5.6	10
62	The Lectin LecA Sensitizes the Human Stretch-Activated Channel TREK-1 but Not Piezo1 and Binds Selectively to Cardiac Non-myocytes. Frontiers in Physiology, 2020, 11, 457.	2.8	8
63	GUV-AP: multifunctional FIJI-based tool for quantitative image analysis of Giant Unilamellar Vesicles. Bioinformatics, 2019, 35, 2340-2342.	4.1	7
64	Involvement of Nâ€glycans in binding of <i>Photorhabdus luminescens</i> Tc toxin. Cellular Microbiology, 2021, 23, e13326.	2.1	7
65	Signalling to the nucleus under the control of light and small molecules. Molecular BioSystems, 2016, 12, 345-349.	2.9	6
66	A microfluidic biochip for locally confined stimulation of cells within an epithelial monolayer. RSC Advances, 2018, 8, 7839-7846.	3.6	6
67	Microbial carbohydrate-binding toxins – From etiology to biotechnological application. Biotechnology Advances, 2022, 59, 107951.	11.7	6
68	Metabolic pathway monitoring of phenalinolactone biosynthesis from <i>Streptomyces</i> sp. Tý6071 by liquid chromatography/mass spectrometry coupling. Rapid Communications in Mass Spectrometry, 2014, 28, 1459-1467.	1.5	5
69	Bacterial lectin BambL acts as a B cell superantigen. Cellular and Molecular Life Sciences, 2021, 78, 8165-8186.	5.4	3
70	Aquaporin 5 Expression in Mouse Mammary Gland Cells Is Not Driven by Promoter Methylation. BioMed Research International, 2015, 2015, 1-12.	1.9	2
71	A Label-Free Optical Detection of Pathogens in Isopropanol as a First Step towards Real-Time Infection Prevention. Biosensors, 2021, 11, 2.	4.7	2
72	In-Depth Characterization of a Re-Engineered Cholera Toxin Manufacturing Process Using Growth-Decoupled Production in Escherichia coli. Toxins, 2022, 14, 396.	3.4	2

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73	Biomaterials: Phytochromeâ€Based Extracellular Matrix with Reversibly Tunable Mechanical Properties (Adv. Mater. 12/2019). Advanced Materials, 2019, 31, 1970083.	21.0	1
74	The Lectin LecB Induces Patches with Basolateral Characteristics at the Apical Membrane to Promote Pseudomonas aeruginosa Host Cell Invasion. MBio, 2022, 13, e0081922.	4.1	1