

Winfried RÄjmer

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

4,317
citations

147801

31
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114465

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87
all docs

87
docs citations

87
times ranked

5173
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial carbohydrate-binding toxins – From etiology to biotechnological application. <i>Biotechnology Advances</i> , 2022, 59, 107951.	11.7	6
2	100 Hz ROCS microscopy correlated with fluorescence reveals cellular dynamics on different spatiotemporal scales. <i>Nature Communications</i> , 2022, 13, 1758.	12.8	16
3	The Lectin LecB Induces Patches with Basolateral Characteristics at the Apical Membrane to Promote <i>Pseudomonas aeruginosa</i> Host Cell Invasion. <i>MBio</i> , 2022, 13, e0081922.	4.1	1
4	In-Depth Characterization of a Re-Engineered Cholera Toxin Manufacturing Process Using Growth-Decoupled Production in <i>Escherichia coli</i> . <i>Toxins</i> , 2022, 14, 396.	3.4	2
5	Quantification of nanoscale forces in lectin-mediated bacterial attachment and uptake into giant liposomes. <i>Nanoscale</i> , 2021, 13, 4016-4028.	5.6	10
6	The Gb3-enriched CD59/flotillin plasma membrane domain regulates host cell invasion by <i>Pseudomonas aeruginosa</i> . <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 3637-3656.	5.4	22
7	Involvement of N-glycans in binding of <i>Photobacterium luminescens</i> Tc toxin. <i>Cellular Microbiology</i> , 2021, 23, e13326.	2.1	7
8	Multiscale Molecular Dynamics Studies Reveal Different Modes of Receptor Clustering by Gb3-Binding Lectins. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 2488-2501.	5.3	15
9	Structural Diversities of Lectins Binding to the Glycosphingolipid Gb3. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 704685.	3.5	23
10	Glycans in autophagy, endocytosis and lysosomal functions. <i>Glycoconjugate Journal</i> , 2021, 38, 625-647.	2.7	15
11	A Label-Free Optical Detection of Pathogens in Isopropanol as a First Step towards Real-Time Infection Prevention. <i>Biosensors</i> , 2021, 11, 2.	4.7	2
12	Bacterial lectin BamL acts as a B cell superantigen. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 8165-8186.	5.4	3
13	The Two Sweet Sides of Janus Lectin Drive Crosslinking of Liposomes to Cancer Cells and Material Uptake. <i>Toxins</i> , 2021, 13, 792.	3.4	12
14	The Lectin LecA Sensitizes the Human Stretch-Activated Channel TREK-1 but Not Piezo1 and Binds Selectively to Cardiac Non-myocytes. <i>Frontiers in Physiology</i> , 2020, 11, 457.	2.8	8
15	Differential recognition of lipid domains by two Gb3-binding lectins. <i>Scientific Reports</i> , 2020, 10, 9752.	3.3	18
16	The <i>Pseudomonas aeruginosa</i> Lectin LecB Causes Integrin Internalization and Inhibits Epithelial Wound Healing. <i>MBio</i> , 2020, 11, .	4.1	31
17	Synchronizing Protein Traffic to the Primary Cilium. <i>Frontiers in Genetics</i> , 2019, 10, 163.	2.3	10
18	A <i>Chlamydia pneumoniae</i> adhesin induces phosphatidylserine exposure on host cells. <i>Nature Communications</i> , 2019, 10, 4644.	12.8	13

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19	Biomaterials: Phytochrome-Based Extracellular Matrix with Reversibly Tunable Mechanical Properties (Adv. Mater. 12/2019). <i>Advanced Materials</i> , 2019, 31, 1970083.	21.0	1
20	Carbohydrate-dependent B cell activation by fucose-binding bacterial lectins. <i>Science Signaling</i> , 2019, 12, .	3.6	35
21	Glycan-decorated protocells: novel features for rebuilding cellular processes. <i>Interface Focus</i> , 2019, 9, 20180084.	3.0	21
22	Binding of SV40's Viral Capsid Protein VP1 to Its Glycosphingolipid Receptor GM1 Induces Negative Membrane Curvature: A Molecular Dynamics Study. <i>Langmuir</i> , 2019, 35, 3534-3544.	3.5	10
23	TBC1D8B Mutations Implicate RAB11-Dependent Vesicular Trafficking in the Pathogenesis of Nephrotic Syndrome. <i>Journal of the American Society of Nephrology: JASN</i> , 2019, 30, 2338-2353.	6.1	25
24	GUV-AP: multifunctional Fiji-based tool for quantitative image analysis of Giant Unilamellar Vesicles. <i>Bioinformatics</i> , 2019, 35, 2340-2342.	4.1	7
25	<i>Pseudomonas aeruginosa</i> lectin LecB impairs keratinocyte fitness by abrogating growth factor signalling. <i>Life Science Alliance</i> , 2019, 2, e201900422.	2.8	11
26	A microfluidic biochip for locally confined stimulation of cells within an epithelial monolayer. <i>RSC Advances</i> , 2018, 8, 7839-7846.	3.6	6
27	Lipid self-assembly and lectin-induced reorganization of the plasma membrane. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170117.	4.0	40
28	Lectin-mediated protocell crosslinking to mimic cell-cell junctions and adhesion. <i>Scientific Reports</i> , 2018, 8, 1932.	3.3	48
29	Molecular AFM imaging of Hsp70-1A association with dipalmitoyl phosphatidylserine reveals membrane blebbing in the presence of cholesterol. <i>Cell Stress and Chaperones</i> , 2018, 23, 673-683.	2.9	20
30	Tailor-made Janus lectin with dual avidity assembles glycoconjugate multilayers and crosslinks protocells. <i>Chemical Science</i> , 2018, 9, 7634-7641.	7.4	30
31	The <i>Pseudomonas aeruginosa</i> lectin LecA triggers host cell signalling by glycosphingolipid-dependent phosphorylation of the adaptor protein Crkl. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 1236-1245.	4.1	42
32	Gb3-binding lectins as potential carriers for transcellular drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2017, 14, 141-153.	5.0	34
33	Dynein light chain 1 induces assembly of large Bim complexes on mitochondria that stabilize Mcl-1 and regulate apoptosis. <i>Genes and Development</i> , 2017, 31, 1754-1769.	5.9	39
34	Pathways of protein and lipid receptor-mediated transcytosis in drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2017, 14, 341-351.	5.0	38
35	Biglycan expression in the melanoma microenvironment promotes invasiveness via increased tissue stiffness inducing integrin- β 1 expression. <i>Oncotarget</i> , 2017, 8, 42901-42916.	1.8	60
36	Synthesis of Cholesterol-Substituted Glycopeptides for Tailor-Made Glycocalyxification of Artificial Membrane Systems. <i>ChemBioChem</i> , 2016, 17, 1403-1406.	2.6	14

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37	Differential induction of innate defense antimicrobial peptides in primary nasal epithelial cells upon stimulation with inflammatory cytokines, Th17 cytokines or bacterial conditioned medium from <i>Staphylococcus aureus</i> isolates. <i>Microbial Pathogenesis</i> , 2016, 90, 69-77.	2.9	10
38	Delving into Lipid-Driven Endocytic Mechanisms Using Biomimetic Membranes. <i>Springer Protocols</i> , 2016, , 17-36.	0.3	19
39	<i>Pseudomonas aeruginosa</i> lectin LecB inhibits tissue repair processes by triggering β^2 -catenin degradation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 1106-1118.	4.1	40
40	Injury-Driven Stiffening of the Dermis Expedites Skin Carcinoma Progression. <i>Cancer Research</i> , 2016, 76, 940-951.	0.9	96
41	Signalling to the nucleus under the control of light and small molecules. <i>Molecular BioSystems</i> , 2016, 12, 345-349.	2.9	6
42	Aquaporin 5 Expression in Mouse Mammary Gland Cells Is Not Driven by Promoter Methylation. <i>BioMed Research International</i> , 2015, 2015, 1-12.	1.9	2
43	Plasma membrane reorganization: A glycolipid gateway for microbes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 858-871.	4.1	65
44	The innate defense antimicrobial peptides hBD3 and RNase7 are induced in human umbilical vein endothelial cells by classical inflammatory cytokines but not Th17 cytokines. <i>Microbes and Infection</i> , 2015, 17, 353-359.	1.9	15
45	Lectins from opportunistic bacteria interact with acquired variable-region glycans of surface immunoglobulin in follicular lymphoma. <i>Blood</i> , 2015, 125, 3287-3296.	1.4	66
46	2-Hydroxy Fatty Acid Enantiomers of Gb 3 Impact Shiga Toxin Binding and Membrane Organization. <i>Biophysical Journal</i> , 2015, 108, 2775-2778.	0.5	28
47	How synthetic membrane systems contribute to the understanding of lipid-driven endocytosis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 2992-3005.	4.1	35
48	Red Light-Regulated Reversible Nuclear Localization of Proteins in Mammalian Cells and Zebrafish. <i>ACS Synthetic Biology</i> , 2015, 4, 951-958.	3.8	105
49	A first step toward liposome-mediated intracellular bacteriophage therapy. <i>Expert Opinion on Drug Delivery</i> , 2015, 12, 1411-1424.	5.0	71
50	A Question of Attire: Dressing Up Bacteriophage Therapy for the Battle Against Antibiotic-Resistant Intracellular Bacteria. <i>Springer Science Reviews</i> , 2015, 3, 1-11.	1.3	17
51	Four-dimensional live imaging of apical biosynthetic trafficking reveals a post-Golgi sorting role of apical endosomal intermediates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4127-4132.	7.1	82
52	A lipid zipper triggers bacterial invasion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12895-12900.	7.1	127
53	Metabolic pathway monitoring of phenalinolactone biosynthesis from <i>Streptomyces</i> sp. TÅ¼6071 by liquid chromatography/mass spectrometry coupling. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 1459-1467.	1.5	5
54	Microfluidic approaches for epithelial cell layer culture and characterisation. <i>Analyst</i> , The, 2014, 139, 3206-3218.	3.5	42

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55	Membrane Deformation by Neoelectins with Engineered Glycolipid Binding Sites. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9267-9270.	13.8	53
56	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. <i>Chemical Science</i> , 2014, 5, 3104.	7.4	48
57	A LecA Ligand Identified from a Galactoside- α -Conjugate Array Inhibits Host Cell Invasion by <i>Pseudomonas aeruginosa</i> . <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8885-8889.	13.8	85
58	Rab12 Localizes to Shiga Toxin-Induced Plasma Membrane Invaginations and Controls Toxin Transport. <i>Traffic</i> , 2014, 15, 772-787.	2.7	15
59	Induced phagocytic particle uptake into a giant unilamellar vesicle. <i>Soft Matter</i> , 2014, 10, 3667-3678.	2.7	23
60	Reduction of Lectin Valency Drastically Changes Glycolipid Dynamics in Membranes but Not Surface Avidity. <i>ACS Chemical Biology</i> , 2013, 8, 1918-1924.	3.4	39
61	Fucose-binding Lectin from Opportunistic Pathogen <i>Burkholderia ambifaria</i> Binds to Both Plant and Human Oligosaccharidic Epitopes. <i>Journal of Biological Chemistry</i> , 2012, 287, 4335-4347.	3.4	92
62	Photoreductive Uncaging of Fluorophore in Response to Protein Oligomers by Templated Reaction <i>in Vitro</i> and <i>in Cellulo</i> . <i>Journal of the American Chemical Society</i> , 2012, 134, 20013-20016.	13.7	61
63	Creating and Modulating Microdomains in Pore-Spanning Membranes. <i>ChemPhysChem</i> , 2012, 13, 108-114.	2.1	25
64	Lipid Cosorting Mediated by Shiga Toxin Induced Tubulation. <i>Traffic</i> , 2010, 11, 1519-1529.	2.7	56
65	GM1 structure determines SV40-induced membrane invagination and infection. <i>Nature Cell Biology</i> , 2010, 12, 11-18.	10.3	535
66	Shiga toxins – from cell biology to biomedical applications. <i>Nature Reviews Microbiology</i> , 2010, 8, 105-116.	28.6	449
67	AGAP2 regulates retrograde transport between early endosomes and the TGN. <i>Journal of Cell Science</i> , 2010, 123, 2381-2390.	2.0	27
68	Actin Dynamics Drive Membrane Reorganization and Scission in Clathrin-Independent Endocytosis. <i>Cell</i> , 2010, 140, 540-553.	28.9	226
69	Lipid Reorganization Induced by Shiga Toxin Clustering on Planar Membranes. <i>PLoS ONE</i> , 2009, 4, e6238.	2.5	90
70	Shiga toxin induces tubular membrane invaginations for its uptake into cells. <i>Nature</i> , 2007, 450, 670-675.	27.8	538
71	Functionally different pools of Shiga toxin receptor, globotriaosyl ceramide, in HeLa cells. <i>FEBS Journal</i> , 2006, 273, 5205-5218.	4.7	43
72	Sub-cellular localisation of a ¹⁵ N-labelled peptide vector using NanoSIMS imaging. <i>Applied Surface Science</i> , 2006, 252, 6925-6930.	6.1	25

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73	Channel Activity of a Viral Transmembrane Peptide in Micro-BLMs: Vpu1-32 from HIV-1. Journal of the American Chemical Society, 2004, 126, 16267-16274.	13.7	91
74	Impedance Analysis and Single-Channel Recordings on Nano-Black Lipid Membranes Based on Porous Alumina. Biophysical Journal, 2004, 86, 955-965.	0.5	236