

Dirk Linke

List of Publications by Year in descending order

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113
papers

5,139
citations

81900

39
h-index

102487

66
g-index

121
all docs

121
docs citations

121
times ranked

5951
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphate availability affects the thylakoid lipid composition and the expression of SQD1, a gene required for sulfolipid biosynthesis in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 1950-1955.	7.1	342
2	Trimeric autotransporter adhesins: variable structure, common function. <i>Trends in Microbiology</i> , 2006, 14, 264-270.	7.7	275
3	Tandem repeats lead to sequence assembly errors and impose multi-level challenges for genome and protein databases. <i>Nucleic Acids Research</i> , 2019, 47, 10994-11006.	14.5	236
4	Type V secretion: mechanism(s) of autotransport through the bacterial outer membrane. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 1088-1101.	4.0	209
5	Emergence of carbapenem-non-susceptible extended-spectrum β -lactamase-producing <i>Klebsiella pneumoniae</i> isolates at the university hospital of Tübingen, Germany. <i>Journal of Medical Microbiology</i> , 2009, 58, 912-922.	1.8	180
6	Membrane-protein structure determination by solid-state NMR spectroscopy of microcrystals. <i>Nature Methods</i> , 2012, 9, 1212-1217.	19.0	140
7	Chapter 34 Detergents. <i>Methods in Enzymology</i> , 2009, 463, 603-617.	1.0	134
8	Efficient Subfractionation of Gram-Negative Bacteria for Proteomics Studies. <i>Journal of Proteome Research</i> , 2010, 9, 6135-6147.	3.7	132
9	Type V Secretion Systems: An Overview of Passenger Domain Functions. <i>Frontiers in Microbiology</i> , 2019, 10, 1163.	3.5	112
10	Duplication of <i>fgfr1</i> Permits Fgf Signaling to Serve as a Target for Selection during Domestication. <i>Current Biology</i> , 2009, 19, 1642-1647.	3.9	110
11	Bacterial Imprinting at Pickering Emulsion Interfaces. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10687-10690.	13.8	103
12	<i>Bartonella</i> spp.: Throwing light on uncommon human infections. <i>International Journal of Medical Microbiology</i> , 2011, 301, 7-15.	3.6	99
13	Evolution of Outer Membrane β -Barrels from an Ancestral β Hairpin. <i>Molecular Biology and Evolution</i> , 2010, 27, 1348-1358.	8.9	95
14	Gene Duplication of the Eight-stranded β -Barrel OmpX Produces a Functional Pore: A Scenario for the Evolution of Transmembrane β -Barrels. <i>Journal of Molecular Biology</i> , 2007, 366, 1174-1184.	4.2	86
15	HHomoprediction and classification of outer membrane proteins. <i>Nucleic Acids Research</i> , 2009, 37, W446-W451.	14.5	86
16	Structure-Activity Analysis of the Dermcidin-derived Peptide DCD-1L, an Anionic Antimicrobial Peptide Present in Human Sweat. <i>Journal of Biological Chemistry</i> , 2012, 287, 8434-8443.	3.4	85
17	Phase separation in the isolation and purification of membrane proteins. <i>BioTechniques</i> , 2007, 43, 427-440.	1.8	81
18	The Use of Detergents to Purify Membrane Proteins. <i>Current Protocols in Protein Science</i> , 2008, 53, Unit 4.8.1-4.8.30.	2.8	79

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19	Catching a SPY: Using the SpyCatcher-SpyTag and Related Systems for Labeling and Localizing Bacterial Proteins. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2129.	4.1	79
20	C-terminal amino acid residues of the trimeric autotransporter adhesin YadA of <i>Yersinia enterocolitica</i> are decisive for its recognition and assembly by BamA. <i>Molecular Microbiology</i> , 2010, 78, 932-946.	2.5	75
21	<i>Yersinia</i> adhesin A (YadA) – Beauty & beast. <i>International Journal of Medical Microbiology</i> , 2015, 305, 252-258.	3.6	74
22	Type V Secretion Systems in Bacteria. <i>Microbiology Spectrum</i> , 2016, 4, .	3.0	74
23	Structure of the Head of the <i>Bartonella</i> Adhesin BadA. <i>PLoS Pathogens</i> , 2008, 4, e1000119.	4.7	70
24	A Conserved Glycine Residue of Trimeric Autotransporter Domains Plays a Key Role in <i>Yersinia</i> Adhesin A Autotransport. <i>Journal of Bacteriology</i> , 2007, 189, 9011-9019.	2.2	67
25	The head of <i>Bartonella</i> adhesin A is crucial for host cell interaction of <i>Bartonella henselae</i> . <i>Cellular Microbiology</i> , 2008, 10, 2223-2234.	2.1	66
26	The Structure of <i>E. coli</i> IgG-Binding Protein D Suggests a General Model for Bending and Binding in Trimeric Autotransporter Adhesins. <i>Structure</i> , 2011, 19, 1021-1030.	3.3	66
27	Analysis of <i>Bartonella</i> Adhesin A Expression Reveals Differences between Various <i>B. henselae</i> Strains. <i>Infection and Immunity</i> , 2007, 75, 35-43.	2.2	64
28	Conjugal plasmid transfer in <i>Streptomyces</i> resembles bacterial chromosome segregation by FtsK/SpolIIE. <i>EMBO Journal</i> , 2011, 30, 2246-2254.	7.8	63
29	The inverse autotransporter family: Intimin, invasin and related proteins. <i>International Journal of Medical Microbiology</i> , 2015, 305, 276-282.	3.6	63
30	ScbA from <i>Streptomyces coelicolor</i> A3(2) has homology to fatty acid synthases and is able to synthesize β -butyrolactones. <i>Microbiology (United Kingdom)</i> , 2007, 153, 1394-1404.	1.8	61
31	Omp85 from the Thermophilic Cyanobacterium <i>Thermosynechococcus elongatus</i> Differs from Proteobacterial Omp85 in Structure and Domain Composition. <i>Journal of Biological Chemistry</i> , 2010, 285, 18003-18015.	3.4	61
32	Complete fiber structures of complex trimeric autotransporter adhesins conserved in enterobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20907-20912.	7.1	57
33	The <i>Acinetobacter</i> trimeric autotransporter adhesin Ata controls key virulence traits of <i>Acinetobacter baumannii</i> . <i>Virulence</i> , 2019, 10, 68-81.	4.4	55
34	Purification of the YadA membrane anchor for secondary structure analysis and crystallization. <i>International Journal of Biological Macromolecules</i> , 2006, 39, 3-9.	7.5	52
35	Intimin and Invasin Export Their C-Terminus to the Bacterial Cell Surface Using an Inverse Mechanism Compared to Classical Autotransport. <i>PLoS ONE</i> , 2012, 7, e47069.	2.5	50
36	Is the C-terminal insertional signal in Gram-negative bacterial outer membrane proteins species-specific or not?. <i>BMC Genomics</i> , 2012, 13, 510.	2.8	49

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37	Trimeric Autotransporter Adhesin-Dependent Adherence of <i>Bartonella henselae</i> , <i>Bartonella quintana</i> , and <i>Yersinia enterocolitica</i> to Matrix Components and Endothelial Cells under Static and Dynamic Flow Conditions. <i>Infection and Immunity</i> , 2011, 79, 2544-2553.	2.2	48
38	Trafficking through COPII Stabilises Cell Polarity and Drives Secretion during <i>Drosophila</i> Epidermal Differentiation. <i>PLoS ONE</i> , 2010, 5, e10802.	2.5	46
39	Trimer Stability of YadA Is Critical for Virulence of <i>Yersinia enterocolitica</i> . <i>Infection and Immunity</i> , 2010, 78, 2677-2690.	2.2	41
40	Functional dissection of SiiE, a giant non-fimbrial adhesin of <i>Salmonella enterica</i> . <i>Cellular Microbiology</i> , 2011, 13, 1286-1301.	2.1	41
41	The Use of Detergents to Purify Membrane Proteins. <i>Current Protocols in Protein Science</i> , 2016, 84, 4.8.1-4.8.35.	2.8	41
42	Structural Basis for Toughness and Flexibility in the C-terminal Passenger Domain of an <i>Acinetobacter</i> Trimeric Autotransporter Adhesin. <i>Journal of Biological Chemistry</i> , 2016, 291, 3705-3724.	3.4	41
43	A New Strain Collection for Improved Expression of Outer Membrane Proteins. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 464.	3.9	41
44	Peptide length and folding state govern the capacity of staphylococcal β -type phenol-soluble modulins to activate human formyl-peptide receptors 1 or 2. <i>Journal of Leukocyte Biology</i> , 2015, 97, 689-697.	3.3	40
45	Overcoming Fish Defences: The Virulence Factors of <i>Yersinia ruckeri</i> . <i>Genes</i> , 2019, 10, 700.	2.4	38
46	A new expression system for protein crystallization using trimeric coiled-coil adaptors. <i>Protein Engineering, Design and Selection</i> , 2007, 21, 11-18.	2.1	36
47	<i>Bartonella quintana</i> Variably Expressed Outer Membrane Proteins Mediate Vascular Endothelial Growth Factor Secretion but Not Host Cell Adherence. <i>Infection and Immunity</i> , 2014, 82, 5003-5013.	2.2	34
48	Expression, crystallization and preliminary X-ray crystallographic studies of the outer membrane protein OmpW from <i>Escherichia coli</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 415-418.	0.7	33
49	Structure and Function of Colicin S4, a Colicin with a Duplicated Receptor-binding Domain. <i>Journal of Biological Chemistry</i> , 2009, 284, 6403-6413.	3.4	33
50	The <i>scpK</i> intimin periplasmic domain mediates dimerisation and binding to peptidoglycan. <i>Molecular Microbiology</i> , 2015, 95, 80-100.	2.5	33
51	Analysis of the BadA stalk from <i>Bartonella henselae</i> reveals domain-specific and domain-overlapping functions in the host cell infection process. <i>Cellular Microbiology</i> , 2012, 14, 198-209.	2.1	32
52	Evolutionary Conservation in Biogenesis of β -Barrel Proteins Allows Mitochondria to Assemble a Functional Bacterial Trimeric Autotransporter Protein. <i>Journal of Biological Chemistry</i> , 2014, 289, 29457-29470.	3.4	31
53	The Inverse Autotransporter Intimin Exports Its Passenger Domain via a Hairpin Intermediate. <i>Journal of Biological Chemistry</i> , 2015, 290, 1837-1849.	3.4	30
54	Folding Kinetics and Structure of OEP16. <i>Biophysical Journal</i> , 2004, 86, 1479-1487.	0.5	29

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55	Mitochondria can recognize and assemble fragments of a β -barrel structure. <i>Molecular Biology of the Cell</i> , 2011, 22, 1638-1647.	2.1	28
56	A Trimeric Lipoprotein Assists in Trimeric Autotransporter Biogenesis in Enterobacteria. <i>Journal of Biological Chemistry</i> , 2014, 289, 7388-7398.	3.4	28
57	Colicin Z, a structurally and functionally novel colicin type that selectively kills enteroinvasive <i>Escherichia coli</i> and <i>Shigella</i> strains. <i>Scientific Reports</i> , 2019, 9, 11127.	3.3	28
58	Assignment and secondary structure of the YadA membrane protein by solid-state MAS NMR. <i>Scientific Reports</i> , 2012, 2, 803.	3.3	25
59	Analysis of Endothelial Adherence of <i>Bartonella henselae</i> and <i>Acinetobacter baumannii</i> Using a Dynamic Human <i>in vivo</i> Infection Model. <i>Infection and Immunity</i> , 2016, 84, 711-722.	2.2	25
60	Bacterial Adhesion. <i>Advances in Experimental Medicine and Biology</i> , 2011, , .	1.6	24
61	GCView: the genomic context viewer for protein homology searches. <i>Nucleic Acids Research</i> , 2011, 39, W353-W356.	14.5	24
62	Distinct mechanisms contribute to immunity in the lantibiotic <i>NAI</i> producer strain <i>Microbispora</i> ... ATCC PTA 5024. <i>Environmental Microbiology</i> , 2016, 18, 118-132.	3.8	24
63	Adhesins of <i>Bartonella</i> spp.. <i>Advances in Experimental Medicine and Biology</i> , 2011, 715, 51-70.	1.6	23
64	Solid-state NMR Study of the YadA Membrane Anchor Domain in the Bacterial Outer Membrane. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12602-12606.	13.8	22
65	An evolutionarily conserved glycine-tyrosine motif forms a folding core in outer membrane proteins. <i>PLoS ONE</i> , 2017, 12, e0182016.	2.5	22
66	The repeat structure of two paralogous genes, <i>Yersinia ruckeri</i> invasin (<i>yrInV</i>) and a <i>Y. ruckeri</i> invasin-like molecule (<i>yrIlm</i>) sheds light on the evolution of adhesive capacities of a fish pathogen. <i>Journal of Structural Biology</i> , 2018, 201, 171-183.	2.8	22
67	Insights into the autotransport process of a trimeric autotransporter, <i>Yersinia</i> Adhesin A (YadA). <i>Molecular Microbiology</i> , 2019, 111, 844-862.	2.5	22
68	Improving the Resistance of a Eukaryotic β -Barrel Protein to Thermal and Chemical Perturbations. <i>Journal of Molecular Biology</i> , 2011, 413, 150-161.	4.2	21
69	ClubSub-P: Cluster-Based Subcellular Localization Prediction for Gram-Negative Bacteria and Archaea. <i>Frontiers in Microbiology</i> , 2011, 2, 218.	3.5	19
70	Reverse Vaccinology: The Pathway from Genomes and Epitope Predictions to Tailored Recombinant Vaccines. <i>Methods in Molecular Biology</i> , 2016, 1403, 87-106.	0.9	18
71	Assessing the Outer Membrane Insertion and Folding of Multimeric Transmembrane β -Barrel Proteins. <i>Methods in Molecular Biology</i> , 2015, 1329, 157-167.	0.9	18
72	Use of <i>Bartonella</i> adhesin A (BadA) immunoblotting in the serodiagnosis of <i>Bartonella henselae</i> infections. <i>International Journal of Medical Microbiology</i> , 2008, 298, 579-590.	3.6	17

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73	Secretion of the Intimin Passenger Domain Is Driven by Protein Folding. <i>Journal of Biological Chemistry</i> , 2016, 291, 20096-20112.	3.4	17
74	Vitronectin Binds to a Specific Stretch within the Head Region of <i>Yersinia enterocolitica</i> Adhesin A and Thereby Modulates <i>Yersinia enterocolitica</i> Host Interaction. <i>Journal of Innate Immunity</i> , 2017, 9, 33-51.	3.8	16
75	The inverse autotransporters of <i>Yersinia ruckeri</i> , <i>YrInv</i> and <i>YrIIm</i> , contribute to biofilm formation and virulence. <i>Environmental Microbiology</i> , 2020, 22, 2939-2955.	3.8	16
76	Electron Microscopy Techniques to Study Bacterial Adhesion. <i>Advances in Experimental Medicine and Biology</i> , 2011, 715, 257-269.	1.6	15
77	The BtaF Adhesin Is Necessary for Full Virulence During Respiratory Infection by <i>Brucella suis</i> and Is a Novel Immunogen for Nasal Vaccination Against <i>Brucella</i> Infection. <i>Frontiers in Immunology</i> , 2019, 10, 1775.	4.8	15
78	Heterologous Expression of <i>Bartonella</i> Adhesin A in <i>Escherichia coli</i> by Exchange of Trimeric Autotransporter Adhesin Domains Results in Enhanced Adhesion Properties and a Pathogenic Phenotype. <i>Journal of Bacteriology</i> , 2014, 196, 2155-2165.	2.2	14
79	A Multiprotein DNA Translocation Complex Directs Intramycelial Plasmid Spreading during <i>Streptomyces</i> Conjugation. <i>MBio</i> , 2015, 6, e02559-14.	4.1	14
80	<i>Streptococcus pyogenes</i> Forms Serotype- and Local Environment-Dependent Interspecies Protein Complexes. <i>MSystems</i> , 2021, 6, e0027121.	3.8	13
81	In Vitro Reconstitution and Biophysical Characterization of OEP16, an Outer Envelope Pore Protein of Pea Chloroplasts. <i>Biochemistry</i> , 2000, 39, 11050-11056.	2.5	11
82	Explanatory Chapter. <i>Methods in Enzymology</i> , 2014, 541, 141-148.	1.0	11
83	In vitro Analysis of O-Antigen-Specific Bacteriophage P22 Inactivation by <i>Salmonella</i> Outer Membrane Vesicles. <i>Frontiers in Microbiology</i> , 2020, 11, 510638.	3.5	11
84	Dynamic relocalization of cytosolic type III secretion system components prevents premature protein secretion at low external pH. <i>Nature Communications</i> , 2021, 12, 1625.	12.8	11
85	Transmembrane β -barrel proteins of bacteria: From structure to function. <i>Advances in Protein Chemistry and Structural Biology</i> , 2022, 128, 113-161.	2.3	11
86	Isolation and characterization of an antigen from the fish pathogen <i>Moritella viscosa</i> . <i>Journal of Applied Microbiology</i> , 2011, 111, 17-25.	3.1	10
87	Immunogenicity of trimeric autotransporter adhesins and their potential as vaccine targets. <i>Medical Microbiology and Immunology</i> , 2020, 209, 243-263.	4.8	10
88	BamA is required for autotransporter secretion. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129581.	2.4	10
89	A unified model for BAM function that takes into account type Vc secretion and species differences in BAM composition. <i>AIMS Microbiology</i> , 2018, 4, 455-468.	2.2	10
90	Secretion Systems in Gram-Negative Bacterial Fish Pathogens. <i>Frontiers in Microbiology</i> , 2021, 12, 782673.	3.5	10

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91	pYR4 From a Norwegian Isolate of <i>Yersinia ruckeri</i> Is a Putative Virulence Plasmid Encoding Both a Type IV Pilus and a Type IV Secretion System. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 373.	3.9	9
92	Long-Read Sequencing Reveals Genetic Adaptation of <i>Bartonella Adhesin A</i> Among Different <i>Bartonella henselae</i> Isolates. <i>Frontiers in Microbiology</i> , 2022, 13, 838267.	3.5	9
93	Assay development for the discovery of small-molecule inhibitors of YadA adhesion to collagen. <i>Cell Surface</i> , 2019, 5, 100025.	3.0	8
94	Inward-facing glycine residues create sharp turns in β -barrel membrane proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183662.	2.6	7
95	<i>Bacillus thuringiensis</i> CbpA is a collagen binding cell surface protein under c-di-GMP control. <i>Cell Surface</i> , 2019, 5, 100032.	3.0	6
96	The Trimeric Autotransporter Adhesin YadA of <i>Yersinia enterocolitica</i> Serotype O:9 Binds Glycan Moieties. <i>Frontiers in Microbiology</i> , 2021, 12, 738818.	3.5	6
97	Host-Pathogen Adhesion as the Basis of Innovative Diagnostics for Emerging Pathogens. <i>Diagnostics</i> , 2021, 11, 1259.	2.6	5
98	Epitope-Tagged Autotransporters as Single-Cell Reporters for Gene Expression by a <i>Salmonella</i> Typhimurium wbaP Mutant. <i>PLoS ONE</i> , 2016, 11, e0154828.	2.5	5
99	Bacterial Response from Exposure to Selected Aliphatic Nitramines. <i>Energy Procedia</i> , 2014, 63, 791-800.	1.8	4
100	BamA and BamD Are Essential for the Secretion of Trimeric Autotransporter Adhesins. <i>Frontiers in Microbiology</i> , 2021, 12, 628879.	3.5	4
101	An Update on "Reverse Vaccinology": The Pathway from Genomes and Epitope Predictions to Tailored, Recombinant Vaccines. <i>Methods in Molecular Biology</i> , 2022, 2412, 45-71.	0.9	4
102	Interaction of <i>Bartonella henselae</i> with Fibronectin Represents the Molecular Basis for Adhesion to Host Cells. <i>Microbiology Spectrum</i> , 2022, 10, e0059822.	3.0	4
103	The sequence of the pYV virulence plasmid from <i>Yersinia enterocolitica</i> strain WA-314 biogroup 1B serotype O:8. <i>Plasmid</i> , 2011, 65, 20-24.	1.4	3
104	A novel, proof-of-concept electrochemical impedimetric biosensor based on extracellular matrix protein-adhesin interaction. <i>Sensors & Diagnostics</i> , 2022, 1, 1003-1013.	3.8	3
105	The Role of Extracellular Loops in the Folding of Outer Membrane Protein X (OmpX) of <i>Escherichia coli</i> . <i>Frontiers in Molecular Biosciences</i> , 0, 9, .	3.5	3
106	Commentary: Never trust your word processor. <i>Biochemistry and Molecular Biology Education</i> , 2009, 37, 377-377.	1.2	2
107	Native display of a huge homotrimeric protein fiber on the cell surface after precise domain deletion. <i>Journal of Bioscience and Bioengineering</i> , 2020, 129, 412-417.	2.2	2
108	Strategies for the Analysis of Bam Recognition Motifs in Outer Membrane Proteins. <i>Methods in Molecular Biology</i> , 2015, 1329, 271-277.	0.9	2

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109	Type V Secretion Systems in Bacteria. , 0, , 305-335.		2
110	Innovative training networks: a new way of collaboration-propped PhD training. Medical Microbiology and Immunology, 2020, 209, 215-216.	4.8	1
111	Quantitative Comparisons of Competing Models of Autotransporter Passenger-Domain Secretion. Biophysical Journal, 2020, 118, 364a-365a.	0.5	0
112	Erratum. Advances in Experimental Medicine and Biology, 2011, 715, E1-E1.	1.6	0
113	What Defines a Gram-Negative?. Frontiers in Microbiology, 0, 3, .	3.5	0