

Lars E Dietrich

List of Publications by Year in descending order

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66
papers

5,752
citations

87886

38
h-index

106340

65
g-index

80
all docs

80
docs citations

80
times ranked

6003
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensory Perception in Bacterial Cyclic Diguanylate Signal Transduction. <i>Journal of Bacteriology</i> , 2022, 204, JB0043321.	2.2	24
2	Gradients and consequences of heterogeneity in biofilms. <i>Nature Reviews Microbiology</i> , 2022, 20, 593-607.	28.6	84
3	Redox cycling-based detection of phenazine metabolites secreted from <i>Pseudomonas aeruginosa</i> in nanopore electrode arrays. <i>Analyst</i> , 2021, 146, 1346-1354.	3.5	10
4	<i>Pseudomonas aeruginosa</i> PA14 produces R-bodies, extendable protein polymers with roles in host colonization and virulence. <i>Nature Communications</i> , 2021, 12, 4613.	12.8	7
5	Model Systems to Study the Chronic, Polymicrobial Infections in Cystic Fibrosis: Current Approaches and Exploring Future Directions. <i>MBio</i> , 2021, 12, e0176321.	4.1	26
6	Spatial alanine metabolism determines local growth dynamics of <i>Escherichia coli</i> colonies. <i>ELife</i> , 2021, 10, .	6.0	36
7	Biofilm Inhibitor Taurolithocholic Acid Alters Colony Morphology, Specialized Metabolism, and Virulence of <i>Pseudomonas aeruginosa</i> . <i>ACS Infectious Diseases</i> , 2020, 6, 603-612.	3.8	10
8	Light-Mediated Decreases in Cyclic di-GMP Levels Inhibit Structure Formation in <i>Pseudomonas aeruginosa</i> Biofilms. <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	23
9	Mid-infrared metabolic imaging with vibrational probes. <i>Nature Methods</i> , 2020, 17, 844-851.	19.0	69
10	Phenazine oxidation by a distal electrode modulates biofilm morphogenesis. <i>Biofilm</i> , 2020, 2, 100025.	3.8	11
11	Interdependency of Respiratory Metabolism and Phenazine-Associated Physiology in <i>Pseudomonas aeruginosa</i> PA14. <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	33
12	Evaluation of Data Analysis Platforms and Compatibility with MALDI-TOF Imaging Mass Spectrometry Data Sets. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1313-1320.	2.8	5
13	Metabolic Heterogeneity and Cross-Feeding in Bacterial Multicellular Systems. <i>Trends in Microbiology</i> , 2020, 28, 732-743.	7.7	65
14	Sensory Domains That Control Cyclic di-GMP-Modulating Proteins: A Critical Frontier in Bacterial Signal Transduction. , 2020, , 137-158.		4
15	Phenazine production promotes antibiotic tolerance and metabolic heterogeneity in <i>Pseudomonas aeruginosa</i> biofilms. <i>Nature Communications</i> , 2019, 10, 762.	12.8	176
16	Phenazines Regulate Nap-Dependent Denitrification in <i>Pseudomonas aeruginosa</i> Biofilms. <i>Journal of Bacteriology</i> , 2018, 200, .	2.2	29
17	Paraffin Embedding and Thin Sectioning of Microbial Colony Biofilms for Microscopic Analysis. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	14
18	The <i>Pseudomonas aeruginosa</i> Complement of Lactate Dehydrogenases Enables Use of d - and l -Lactate and Metabolic Cross-Feeding. <i>MBio</i> , 2018, 9, .	4.1	33

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19	<i>Pseudomonas aeruginosa</i> PumA acts on an endogenous phenazine to promote self-resistance. <i>Microbiology</i> (United Kingdom), 2018, 164, 790-800.	1.8	19
20	Electron-shuttling antibiotics structure bacterial communities by modulating cellular levels of c-di-GMP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5236-E5245.	7.1	82
21	Bifunctionality of a biofilm matrix protein controlled by redox state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6184-E6191.	7.1	57
22	Crystal structure of a <i>Pseudomonas</i> malonate decarboxylase holoenzyme hetero-tetramer. <i>Nature Communications</i> , 2017, 8, 160.	12.8	14
23	Redox-Based Regulation of Bacterial Development and Behavior. <i>Annual Review of Biochemistry</i> , 2017, 86, 777-797.	11.1	52
24	Structural dynamics of RbmA governs plasticity of <i>Vibrio cholerae</i> biofilms. <i>ELife</i> , 2017, 6, .	6.0	57
25	An orphan cbb3-type cytochrome oxidase subunit supports <i>Pseudomonas aeruginosa</i> biofilm growth and virulence. <i>ELife</i> , 2017, 6, .	6.0	77
26	Bow-tie signaling in c-di-GMP: Machine learning in a simple biochemical network. <i>PLoS Computational Biology</i> , 2017, 13, e1005677.	3.2	38
27	A distinct holoenzyme organization for two-subunit pyruvate carboxylase. <i>Nature Communications</i> , 2016, 7, 12713.	12.8	14
28	The <i>Pseudomonas aeruginosa</i> efflux pump MexGHI-OpmD transports a natural phenazine that controls gene expression and biofilm development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3538-47.	7.1	145
29	Electrochemical camera chip for simultaneous imaging of multiple metabolites in biofilms. <i>Nature Communications</i> , 2016, 7, 10535.	12.8	105
30	Motility, Chemotaxis and Aerotaxis Contribute to Competitiveness during Bacterial Pellicle Biofilm Development. <i>Journal of Molecular Biology</i> , 2015, 427, 3695-3708.	4.2	127
31	Facultative Control of Matrix Production Optimizes Competitive Fitness in <i>Pseudomonas aeruginosa</i> PA14 Biofilm Models. <i>Applied and Environmental Microbiology</i> , 2015, 81, 8414-8426.	3.1	64
32	Structure and function of a single-chain, multi-domain long-chain acyl-CoA carboxylase. <i>Nature</i> , 2015, 518, 120-124.	27.8	36
33	<i>Candida albicans</i> Ethanol Stimulates <i>Pseudomonas aeruginosa</i> WspR-Controlled Biofilm Formation as Part of a Cyclic Relationship Involving Phenazines. <i>PLoS Pathogens</i> , 2014, 10, e1004480.	4.7	132
34	An Aerobic Exercise: Defining the Roles of <i>Pseudomonas aeruginosa</i> Terminal Oxidases. <i>Journal of Bacteriology</i> , 2014, 196, 4203-4205.	2.2	12
35	Redox-driven regulation of microbial community morphogenesis. <i>Current Opinion in Microbiology</i> , 2014, 18, 39-45.	5.1	64
36	Morphological optimization for access to dual oxidants in biofilms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 208-213.	7.1	82

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37	Integrated circuit-based electrochemical sensor for spatially resolved detection of redox-active metabolites in biofilms. <i>Nature Communications</i> , 2014, 5, 3256.	12.8	142
38	Convergent Evolution of Hyperswarming Leads to Impaired Biofilm Formation in Pathogenic Bacteria. <i>Cell Reports</i> , 2013, 4, 697-708.	6.4	134
39	Species-specific residues calibrate SoxR sensitivity to redox-active molecules. <i>Molecular Microbiology</i> , 2013, 87, 368-381.	2.5	30
40	Control of <i>Candida albicans</i> Metabolism and Biofilm Formation by <i>Pseudomonas aeruginosa</i> Phenazines. <i>MBio</i> , 2013, 4, e00526-12.	4.1	208
41	Bacterial Community Morphogenesis Is Intimately Linked to the Intracellular Redox State. <i>Journal of Bacteriology</i> , 2013, 195, 1371-1380.	2.2	268
42	Redundant phenazine operons in <i>Pseudomonas aeruginosa</i> exhibit environment-dependent expression and differential roles in pathogenicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19420-19425.	7.1	158
43	Redox Eustress: Roles for Redox-Active Metabolites in Bacterial Signaling and Behavior. <i>Antioxidants and Redox Signaling</i> , 2012, 16, 658-667.	5.4	39
44	The Carbon Monoxide Releasing Molecule CORM-2 Attenuates <i>Pseudomonas aeruginosa</i> Biofilm Formation. <i>PLoS ONE</i> , 2012, 7, e35499.	2.5	53
45	A shared mechanism of SoxR activation by redox-cycling compounds. <i>Molecular Microbiology</i> , 2011, 79, 1119-1122.	2.5	35
46	Biological Control of Rhizoctonia Root Rot on Bean by Phenazine- and Cyclic Lipopeptide-Producing <i>Pseudomonas</i> CMR12a. <i>Phytopathology</i> , 2011, 101, 996-1004.	2.2	88
47	Phenazines affect biofilm formation by <i>Pseudomonas aeruginosa</i> in similar ways at various scales. <i>Research in Microbiology</i> , 2010, 161, 187-191.	2.1	143
48	Redox-Active Antibiotics Control Gene Expression and Community Behavior in Divergent Bacteria. <i>Science</i> , 2008, 321, 1203-1206.	12.6	394
49	DNA binding shifts the redox potential of the transcription factor SoxR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3684-3689.	7.1	68
50	Pyocyanin Alters Redox Homeostasis and Carbon Flux through Central Metabolic Pathways in <i>Pseudomonas aeruginosa</i> PA14. <i>Journal of Bacteriology</i> , 2007, 189, 6372-6381.	2.2	291
51	The phenazine pyocyanin is a terminal signalling factor in the quorum sensing network of <i>Pseudomonas aeruginosa</i> . <i>Molecular Microbiology</i> , 2006, 61, 1308-1321.	2.5	639
52	Rethinking 'secondary' metabolism: physiological roles for phenazine antibiotics. <i>Nature Chemical Biology</i> , 2006, 2, 71-78.	8.0	483
53	The co-evolution of life and Earth. <i>Current Biology</i> , 2006, 16, R395-R400.	3.9	55
54	The co-evolution of life and Earth. <i>Current Biology</i> , 2006, 16, 1579.	3.9	0

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55	Palmitoylation determines the function of Vac8 at the yeast vacuole. <i>Journal of Cell Science</i> , 2006, 119, 2477-2485.	2.0	49
56	The SNARE Ykt6 is released from yeast vacuoles during an early stage of fusion. <i>EMBO Reports</i> , 2005, 6, 245-250.	4.5	32
57	The DHHC protein Pfa3 affects vacuole-associated palmitoylation of the fusion factor Vac8. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17366-17371.	7.1	53
58	ATP-independent Control of Vac8 Palmitoylation by a SNARE Subcomplex on Yeast Vacuoles. <i>Journal of Biological Chemistry</i> , 2005, 280, 15348-15355.	3.4	17
59	The SNARE Ykt6 mediates protein palmitoylation during an early stage of homotypic vacuole fusion. <i>EMBO Journal</i> , 2004, 23, 45-53.	7.8	72
60	On the mechanism of protein palmitoylation. <i>EMBO Reports</i> , 2004, 5, 1053-1057.	4.5	117
61	Longins and their longin domains: regulated SNAREs and multifunctional SNARE regulators. <i>Trends in Biochemical Sciences</i> , 2004, 29, 682-688.	7.5	138
62	Control of eukaryotic membrane fusion by N-terminal domains of SNARE proteins. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2003, 1641, 111-119.	4.1	44
63	Biochemical characterization of the vacuolar palmitoyl acyltransferase. <i>FEBS Letters</i> , 2003, 540, 101-105.	2.8	10
64	The Transmembrane Domain of Vam3 Affects the Composition of cis- and trans-SNARE Complexes to Promote Homotypic Vacuole Fusion. <i>Journal of Biological Chemistry</i> , 2003, 278, 1656-1662.	3.4	37
65	Vac8p release from the SNARE complex and its palmitoylation are coupled and essential for vacuole fusion. <i>EMBO Journal</i> , 2001, 20, 3145-3155.	7.8	80
66	Structural Consequences of Cyclophilin A Binding on Maturation Refolding in Human Immunodeficiency Virus Type 1 Capsid Protein. <i>Journal of Virology</i> , 2001, 75, 4721-4733.	3.4	20