

# Dominik Schwudke

## List of Publications by Year in descending order

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86  
papers

6,282  
citations

117625

34  
h-index

74163

75  
g-index

100  
all docs

100  
docs citations

100  
times ranked

9654  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lipid extraction by methyl-tert-butyl ether for high-throughput lipidomics. <i>Journal of Lipid Research</i> , 2008, 49, 1137-1146.	4.2	1,801
2	A novel informatics concept for high-throughput shotgun lipidomics based on the molecular fragmentation query language. <i>Genome Biology</i> , 2011, 12, R8.	9.6	345
3	LipidXplorer: A Software for Consensual Cross-Platform Lipidomics. <i>PLoS ONE</i> , 2012, 7, e29851.	2.5	336
4	Top-Down Lipidomics Reveals Ether Lipid Deficiency in Blood Plasma of Hypertensive Patients. <i>PLoS ONE</i> , 2009, 4, e6261.	2.5	290
5	Lupus nephritis is linked to disease-activity associated expansions and immunity to a gut commensal. <i>Annals of the Rheumatic Diseases</i> , 2019, 78, 947-956.	0.9	274
6	Lipid Profiling by Multiple Precursor and Neutral Loss Scanning Driven by the Data-Dependent Acquisition. <i>Analytical Chemistry</i> , 2006, 78, 585-595.	6.5	272
7	Top-Down Lipidomic Screens by Multivariate Analysis of High-Resolution Survey Mass Spectra. <i>Analytical Chemistry</i> , 2007, 79, 4083-4093.	6.5	179
8	Shotgun Lipidomics on High Resolution Mass Spectrometers. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011, 3, a004614-a004614.	5.5	149
9	Bacterial medium-chain 3-hydroxy fatty acid metabolites trigger immunity in <i>Arabidopsis</i> plants. <i>Science</i> , 2019, 364, 178-181.	12.6	145
10	Constitutive Formation of Caveolae in a Bacterium. <i>Cell</i> , 2012, 150, 752-763.	28.9	126
11	Survival strategies of a sterol auxotroph. <i>Development (Cambridge)</i> , 2010, 137, 3675-3685.	2.5	125
12	Shotgun Lipidomics by Tandem Mass Spectrometry under Data-Dependent Acquisition Control. <i>Methods in Enzymology</i> , 2007, 433, 175-191.	1.0	115
13	Bottom-Up Shotgun Lipidomics by Higher Energy Collisional Dissociation on LTQ Orbitrap Mass Spectrometers. <i>Analytical Chemistry</i> , 2011, 83, 5480-5487.	6.5	111
14	Inhibition of Cytosolic Phospholipase A <sub>2</sub> Impairs an Early Step of Coronavirus Replication in Cell Culture. <i>Journal of Virology</i> , 2018, 92, .	3.4	107
15	The Obligate Predatory <i>Bdellovibrio bacteriovorus</i> Possesses a Neutral Lipid A Containing $\beta$ -D-Mannoses That Replace Phosphate Residues. <i>Journal of Biological Chemistry</i> , 2003, 278, 27502-27512.	3.4	92
16	LET-767 Is Required for the Production of Branched Chain and Long Chain Fatty Acids in <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 17550-17560.	3.4	75
17	Taxonomic Studies of Predatory <i>Bdellovibrios</i> Based on 16S rRNA Analysis, Ribotyping and the hit Locus and Characterization of Isolates from the Gut of Animals. <i>Systematic and Applied Microbiology</i> , 2001, 24, 385-394.	2.8	73
18	The Leukotriene B <sub>4</sub> and its Receptor BLT1 Are Critical Drivers of Neutrophil Recruitment in Murine Bullous Pemphigoid-Like Epidermolysis Bullosa Acquisita. <i>Journal of Investigative Dermatology</i> , 2017, 137, 1104-1113.	0.7	73

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19	Phosphatidylinositol 4-phosphate and phosphatidylinositol 3-phosphate regulate phagolysosome biogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4636-4641.	7.1	72
20	Ablation of cholesterol biosynthesis in neural stem cells increases their VEGF expression and angiogenesis but causes neuron apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8350-8355.	7.1	64
21	Glycosphingolipid Requirements for Endosomeâ€œGolgi Transport of Shiga Toxin. <i>Traffic</i> , 2009, 10, 868-882.	2.7	60
22	Altered lipid homeostasis in <i>Drosophila</i> InsP3 receptor mutants leads to obesity and hyperphagia. <i>DMM Disease Models and Mechanisms</i> , 2013, 6, 734-44.	2.4	60
23	LipidCreator workbench to probe the lipidomic landscape. <i>Nature Communications</i> , 2020, 11, 2057.	12.8	58
24	Complex lipid metabolic remodeling is required for efficient hepatitis C virus replication. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018, 1863, 1041-1056.	2.4	56
25	Central Leptin Regulates Total Ceramide Content and Sterol Regulatory Element Binding Protein-1C Proteolytic Maturation in Rat White Adipose Tissue. <i>Endocrinology</i> , 2009, 150, 169-178.	2.8	54
26	Quality control requirements for the correct annotation of lipidomics data. <i>Nature Communications</i> , 2021, 12, 4771.	12.8	54
27	Structure of sterol aliphatic chains affects yeast cell shape and cell fusion during mating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4170-4175.	7.1	53
28	Lipoteichoic acid deficiency permits normal growth but impairs virulence of <i>Streptococcus pneumoniae</i> . <i>Nature Communications</i> , 2017, 8, 2093.	12.8	52
29	Ceramides And Stress Signalling Intersect With Autophagic Defects In Neurodegenerative <i>Drosophila blue cheese (bchs) Mutants</i> . <i>Scientific Reports</i> , 2015, 5, 15926.	3.3	48
30	Broad-Host-Range <i>Yersinia</i> Phage PY100: Genome Sequence, Proteome Analysis of Virions, and DNA Packaging Strategy. <i>Journal of Bacteriology</i> , 2008, 190, 332-342.	2.2	47
31	Maradolipids: Diacyltrehalose Glycolipids Specific to Dauer Larva in <i>Caenorhabditis elegans</i> . <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9430-9435.	13.8	47
32	LipidXplorer: Software for Quantitative Shotgun Lipidomics Compatible with Multiple Mass Spectrometry Platforms. <i>Current Protocols in Bioinformatics</i> , 2013, 43, 14.12.1-14.12.30.	25.8	40
33	Solid-state electrochemical, X-ray and spectroscopic characterization of substitutional solid solutions of ironâ€œcopper hexacyanoferrates. <i>Electrochemistry Communications</i> , 2000, 2, 301-306.	4.7	38
34	Lipid Analysis of Airway Epithelial Cells for Studying Respiratory Diseases. <i>Chromatographia</i> , 2015, 78, 403-413.	1.3	38
35	Structure of the pneumococcal <i>DacB</i> and pathophysiological effects of disabled cell wall hydrolases <i>DacA</i> and <i>DacB</i> . <i>Molecular Microbiology</i> , 2014, 93, 1183-1206.	2.5	37
36	Lipidomes of lung cancer and tumour-free lung tissues reveal distinct molecular signatures for cancer differentiation, age, inflammation, and pulmonary emphysema. <i>Scientific Reports</i> , 2017, 7, 11087.	3.3	36

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37	Perspective for Precision Medicine for Tuberculosis. <i>Frontiers in Immunology</i> , 2020, 11, 566608.	4.8	35
38	Predatory mechanisms of <i>Bdellovibrio</i> and like organisms. <i>Future Microbiology</i> , 2007, 2, 63-73.	2.0	32
39	Isoniazid@Fe <sub>2</sub> O <sub>3</sub> Nanocontainers and Their Antibacterial Effect on Tuberculosis Mycobacteria. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12597-12601.	13.8	30
40	Occurrence of an Unusual Hopanoid-containing Lipid A Among Lipopolysaccharides from <i>Bradyrhizobium</i> Species. <i>Journal of Biological Chemistry</i> , 2014, 289, 35644-35655.	3.4	29
41	Laser Capture Microdissection Coupled with On-Column Extraction LC-MS <sup>n</sup> Enables Lipidomics of Fluorescently Labeled <i>Drosophila</i> Neurons. <i>Analytical Chemistry</i> , 2014, 86, 5345-5352.	6.5	26
42	Shotgun Lipidomics Approach for Clinical Samples. <i>Methods in Molecular Biology</i> , 2018, 1730, 163-174.	0.9	26
43	Lipidomics informatics for life-science. <i>Journal of Biotechnology</i> , 2017, 261, 131-136.	3.8	24
44	Structural analysis and immunostimulatory potency of lipoteichoic acids isolated from three <i>Streptococcus suis</i> serotype 2 strains. <i>Journal of Biological Chemistry</i> , 2018, 293, 12011-12025.	3.4	24
45	Lipoteichoic acid of <i>Streptococcus oralis</i> Uo5: a novel biochemical structure comprising an unusual phosphorylcholine substitution pattern compared to <i>Streptococcus pneumoniae</i> . <i>Scientific Reports</i> , 2015, 5, 16718.	3.3	22
46	Lipidome of narrow-band ultraviolet B irradiated keratinocytes shows apoptotic hallmarks. <i>Experimental Dermatology</i> , 2010, 19, e103-10.	2.9	21
47	Unusual Lipid A from a Cold-Adapted Bacterium: Detailed Structural Characterization. <i>ChemBioChem</i> , 2017, 18, 1845-1854.	2.6	21
48	<i>Bdellovibrio bacteriovorus</i> Strains Produce a Novel Major Outer Membrane Protein during Predacious Growth in the Periplasm of Prey Bacteria. <i>Journal of Bacteriology</i> , 2004, 186, 2766-2773.	2.2	20
49	Changes in Visceral Adipose Tissue Plasma Membrane Lipid Composition in Old Rats Are Associated With Adipocyte Hypertrophy With Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 1139-1146.	3.6	20
50	Transcriptional Activity of the Host-Interaction Locus and a Putative Pilin Gene of <i>Bdellovibrio bacteriovorus</i> in the Predatory Life Cycle. <i>Current Microbiology</i> , 2005, 51, 310-316.	2.2	19
51	Liquid Extraction: Bligh and Dyer. , 2016, , 1-4.		19
52	The Interaction of Prussian Blue and Dissolved Hexacyanoferrate Ions with Goethite (±-FeOOH) Studied to Assess the Chemical Stability and Physical Mobility of Prussian Blue in Soils. <i>Ecotoxicology and Environmental Safety</i> , 2001, 49, 245-254.	6.0	18
53	Lipid metabolic perturbation is an early-onset phenotype in adult <i>Drosophila</i> spinster mutants: a model for lysosomal storage disorders. <i>Molecular Biology of the Cell</i> , 2017, 28, 3728-3740.	2.1	18
54	Attachment of phosphorylcholine residues to pneumococcal teichoic acids and modification of substitution patterns by the phosphorylcholine esterase. <i>Journal of Biological Chemistry</i> , 2018, 293, 10620-10629.	3.4	17

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55	WNT6/ACC2-induced storage of triacylglycerols in macrophages is exploited by Mycobacterium tuberculosis. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	17
56	Structural Studies of the Lipopolysaccharide from the Fish Pathogen <i>Aeromonas veronii</i> Strain Bs19, Serotype O16. <i>Marine Drugs</i> , 2014, 12, 1298-1316.	4.6	16
57	The LUX Score: A Metric for Lipidome Homology. <i>PLoS Computational Biology</i> , 2015, 11, e1004511.	3.2	16
58	A saposin deficiency model in <i>Drosophila</i> : Lysosomal storage, progressive neurodegeneration and sensory physiological decline. <i>Neurobiology of Disease</i> , 2017, 98, 77-87.	4.4	16
59	siRNA screening reveals JNK2 as an evolutionary conserved regulator of triglyceride homeostasis. <i>Journal of Lipid Research</i> , 2008, 49, 2427-2440.	4.2	15
60	Blocking IL-10 receptor signaling ameliorates Mycobacterium tuberculosis infection during influenza-induced exacerbation. <i>JCI Insight</i> , 2019, 4, .	5.0	15
61	Substrate structure-activity relationship reveals a limited lipopolysaccharide chemotype range for intestinal alkaline phosphatase. <i>Journal of Biological Chemistry</i> , 2019, 294, 19405-19423.	3.4	12
62	PLD3 and spinocerebellar ataxia. <i>Brain</i> , 2018, 141, e78-e78.	7.6	11
63	Characterization of outer membrane protein fractions of <i>Bdellovibrionales</i> . <i>FEMS Microbiology Letters</i> , 2005, 243, 211-217.	1.8	10
64	Liquid Extraction: Folch. , 2016, , 1-6.		10
65	A Current Encyclopedia of Bioinformatics Tools, Data Formats and Resources for Mass Spectrometry Lipidomics. <i>Metabolites</i> , 2022, 12, 584.	2.9	10
66	Tuberculostearic Acid-Containing Phosphatidylinositols as Markers of Bacterial Burden in Tuberculosis. <i>ACS Infectious Diseases</i> , 2022, 8, 1303-1315.	3.8	9
67	Total Synthesis of Five Lipoteichoic acids of <i>Clostridium difficile</i> . <i>Chemistry - A European Journal</i> , 2014, 20, 13511-13516.	3.3	8
68	Co-Inactivation of GlnR and CodY Regulators Impacts Pneumococcal Cell Wall Physiology. <i>PLoS ONE</i> , 2015, 10, e0123702.	2.5	8
69	Inactivation of Bacteria by $\hat{I}^3$ -Irradiation to Investigate the Interaction with Antimicrobial Peptides. <i>Biophysical Journal</i> , 2019, 117, 1805-1819.	0.5	8
70	Lipid Extraction: Basics of the Methyl-tert-Butyl Ether Extraction. , 2016, , 1-3.		7
71	Lipidation of Pneumococcal Antigens Leads to Improved Immunogenicity and Protection. <i>Vaccines</i> , 2020, 8, 310.	4.4	6
72	Commensal <i>Streptococcus mitis</i> produces two different lipoteichoic acids of type I and type IV. <i>Glycobiology</i> , 2021, 31, 1655-1669.	2.5	6

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73	Systematic Analysis of Composition, Interfacial Performance and Effects of Pulmonary Surfactant Preparations on Cellular Uptake and Cytotoxicity of Aerosolized Nanomaterials. <i>Small Science</i> , 2021, 1, 2100067.	9.9	6
74	The human LL-37 peptide exerts antimicrobial activity against <i>Legionella micdadei</i> interacting with membrane phospholipids. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2022, 1867, 159138.	2.4	6
75	LAMP3 deficiency affects surfactant homeostasis in mice. <i>PLoS Genetics</i> , 2021, 17, e1009619.	3.5	5
76	Are $\omega$ -3 PUFAs from Microalgae Incorporated into Membrane and Storage Lipids in Pig Muscle Tissues? A Lipidomic Approach. <i>ACS Omega</i> , 2022, 7, 24785-24794.	3.5	5
77	Software-aided quality control of parallel reaction monitoring based quantitation of lipid mediators. <i>Analytica Chimica Acta</i> , 2018, 1037, 168-176.	5.4	4
78	Analysis of the Structure and Biosynthesis of the Lipopolysaccharide Core Oligosaccharide of <i>Pseudomonas syringae</i> pv. tomato DC3000. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3250.	4.1	4
79	Remodeling of Lipid A in <i>Pseudomonas syringae</i> pv. phaseolicola In Vitro. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1996.	4.1	4
80	Lipid A structural characterization from the LPS of the Siberian psychro-tolerant <i>Psychrobacter arcticus</i> 273-4 grown at low temperature. <i>Extremophiles</i> , 2018, 22, 955-963.	2.3	2
81	Quantification of Phosphatidylinositol Phosphate Species in Purified Membranes. <i>Methods in Enzymology</i> , 2017, 587, 271-291.	1.0	1
82	Characterization of phospholipid-modified lung surfactant in vitro and in a neonatal ARDS model reveals anti-inflammatory potential and surfactant lipidome signatures. <i>European Journal of Pharmaceutical Sciences</i> , 2022, 175, 106216.	4.0	1
83	Requirement of branched chain and long chain fatty acids in <i>C. elegans</i> . <i>Chemistry and Physics of Lipids</i> , 2009, 160, S6.	3.2	0
84	Sphingolipid metabolism in <i>Drosophila</i> neurodegeneration: Roles of ceramide and cholesterol storage. <i>Chemistry and Physics of Lipids</i> , 2011, 164, S2-S3.	3.2	0
85	Needs for an Integration of Specific Data Sources and Items – First Insights of a National Survey Within the German Center for Infection Research. <i>Studies in Health Technology and Informatics</i> , 2021, 278, 237-244.	0.3	0
86	High Throughput Lipidomics Screens by Mass Spectrometry. , 0, 2007, .		0