

# Christoph Arenz

## List of Publications by Year in descending order

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Version: 2024-02-01

100  
papers

3,672  
citations

136950

32  
h-index

149698

56  
g-index

113  
all docs

113  
docs citations

113  
times ranked

5181  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adult alcohol drinking and emotional tone are mediated by neutral sphingomyelinase during development in males. <i>Cerebral Cortex</i> , 2023, 33, 844-864.	2.9	9
2	Discovery and Mechanism of Action of Small Molecule Inhibitors of Ceramidases**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	19
3	Isolation and In Silico Anti-SARS-CoV-2 Papain-Like Protease Potentialities of Two Rare 2-Phenoxychromone Derivatives from <i>Artemisia</i> spp.. <i>Molecules</i> , 2022, 27, 1216.	3.8	27
4	Jusanin, a New Flavonoid from <i>Artemisia commutata</i> with an In Silico Inhibitory Potential against the SARS-CoV-2 Main Protease. <i>Molecules</i> , 2022, 27, 1636.	3.8	23
5	Stimulation of the EP <sub>3</sub> receptor causes lung edema by activation of TRPC6 in pulmonary endothelial cells. <i>European Respiratory Journal</i> , 2022, , 2102635.	6.7	3
6	Identification of Small-Molecule Inhibitors of Neutral Ceramidase (nCDase) via Target-Based High-Throughput Screening. <i>SLAS Discovery</i> , 2021, 26, 113-121.	2.7	9
7	Platelet extracellular vesicles mediate transfusion-related acute lung injury by imbalancing the sphingolipid rheostat. <i>Blood</i> , 2021, 137, 690-701.	1.4	43
8	Stereoselective Synthesis of Novel Sphingoid Bases Utilized for Exploring the Secrets of Sphinx. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8171.	4.1	12
9	Synthesis and characterization of a new two photon excitable acid sphingomyelinase FRET probe. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 44, 116303.	3.0	5
10	Artificial Transcription Factors for Tuneable Gene Expression in <i>Pichia pastoris</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 676900.	4.1	6
11	The long chain base unsaturation has a stronger impact on 1-deoxy(methyl)-sphingolipids biophysical properties than the structure of its C1 functional group. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183628.	2.6	4
12	Neutral sphingomyelinase mediates the co-morbidity trias of alcohol abuse, major depression and bone defects. <i>Molecular Psychiatry</i> , 2021, 26, 7403-7416.	7.9	20
13	1-deoxysphingolipids bind to COUP-TF to modulate lymphatic and cardiac cell development. <i>Developmental Cell</i> , 2021, 56, 3128-3145.e15.	7.0	6
14	A Fast and Easy Method for Specific Detection of Circular RNA by Rolling Circle Amplification. <i>ChemBioChem</i> , 2020, 21, 793-796.	2.6	30
15	Image-Based Morphological Profiling Identifies a Lysosomotropic, Iron-Sequestering Autophagy Inhibitor. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5721-5729.	13.8	41
16	Liposomal FRET Assay Identifies Potent Drug-Like Inhibitors of the Ceramide Transport Protein (CERT). <i>Chemistry - A European Journal</i> , 2020, 26, 16616-16621.	3.3	25
17	Innentitelbild: Unterscheidung von isomeren Sphingolipiden mittels kryogener Infrarotspektroskopie ( <i>Angew. Chem.</i> 32/2020). <i>Angewandte Chemie</i> , 2020, 132, 13226-13226.	2.0	0
18	Characterization of the small molecule ARC39, a direct and specific inhibitor of acid sphingomyelinase in vitro. <i>Journal of Lipid Research</i> , 2020, 61, 896-910.	4.2	39

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19	Unterscheidung von isomeren Sphingolipiden mittels kryogener Infrarotspektroskopie. <i>Angewandte Chemie</i> , 2020, 132, 13740-13744.	2.0	1
20	Canonical and 1-Deoxy(methyl) Sphingoid Bases: Tackling the Effect of the Lipid Structure on Membrane Biophysical Properties. <i>Langmuir</i> , 2020, 36, 6007-6016.	3.5	5
21	Subunit composition of the mammalian serine-palmitoyltransferase defines the spectrum of straight and methyl-branched long-chain bases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15591-15598.	7.1	55
22	A Novel Visible Range FRET Probe for Monitoring Acid Sphingomyelinase Activity in Living Cells. <i>Chemistry - A European Journal</i> , 2020, 26, 5780-5783.	3.3	11
23	Image-Based Morphological Profiling Identifies a Lysosomotropic, Iron-Sequestering Autophagy Inhibitor. <i>Angewandte Chemie</i> , 2020, 132, 5770-5778.	2.0	11
24	Monitoring Dicer-Mediated miRNA-21 Maturation and Ago2 Loading by a Dual-Colour FIT PNA Probe Set. <i>ChemBioChem</i> , 2020, 21, 2527-2532.	2.6	6
25	Resolving Sphingolipid Isomers Using Cryogenic Infrared Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13638-13642.	13.8	22
26	A photocaged inhibitor of acid sphingomyelinase. <i>Chemical Communications</i> , 2020, 56, 14885-14888.	4.1	5
27	Optical Nanosensing of Lipid Accumulation due to Enzyme Inhibition in Live Cells. <i>ACS Nano</i> , 2019, 13, 9363-9375.	14.6	31
28	Sphingolipid-Transporting Proteins as Cancer Therapeutic Targets. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3554.	4.1	21
29	Trendbericht Organische Chemie 2017. <i>Nachrichten Aus Der Chemie</i> , 2018, 66, 249-280.	0.0	0
30	Differential-Mobility Spectrometry of 1-Deoxysphingosine Isomers: New Insights into the Gas Phase Structures of Ionized Lipids. <i>Analytical Chemistry</i> , 2018, 90, 5343-5351.	6.5	31
31	Five-, Four- and Three-Dentate Europium Chelates for Anion Sensing and Their Applicability to Enzymatic Dephosphorylation Reactions. <i>ChemistrySelect</i> , 2018, 3, 12430-12439.	1.5	4
32	SERS and Cryo-EM Directly Reveal Different Liposome Structures during Interaction with Gold Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6767-6772.	4.6	33
33	Structure of a human intramembrane ceramidase explains enzymatic dysfunction found in leukodystrophy. <i>Nature Communications</i> , 2018, 9, 5437.	12.8	40
34	FRET probes for measuring sphingolipid metabolizing enzyme activity. <i>Chemistry and Physics of Lipids</i> , 2018, 216, 152-161.	3.2	18
35	Tsc3 regulates SPT amino acid choice in <i>Saccharomyces cerevisiae</i> by promoting alanine in the sphingolipid pathway. <i>Journal of Lipid Research</i> , 2018, 59, 2126-2139.	4.2	11
36	Synthesis and characterization of some atypical sphingoid bases. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 4047-4057.	3.0	15

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37	Elemental labelling and mass spectrometry for the specific detection of sulfenic acid groups in model peptides: a proof of concept. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 2015-2027.	3.7	24
38	Amplification of a FRET Probe by Lipid-Water Partition for the Detection of Acid Sphingomyelinase in Live Cells. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2790-2794.	13.8	47
39	Organische Chemie 2016. <i>Nachrichten Aus Der Chemie</i> , 2017, 65, 266-304.	0.0	0
40	The cellular ceramide transport protein CERT promotes <i>Chlamydia psittaci</i> infection and controls bacterial sphingolipid uptake. <i>Cellular Microbiology</i> , 2017, 19, e12752.	2.1	30
41	Eine durch Lipid-Wasser-Trennung verstärkte FRET-Sonde zur Detektion der Sauren Sphingomyelinase in lebenden Zellen. <i>Angewandte Chemie</i> , 2017, 129, 2834-2838.	2.0	8
42	Acid sphingomyelinase mediates murine acute lung injury following transfusion of aged platelets. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 312, L625-L637.	2.9	26
43	Structural insights into adiponectin receptors suggest ceramidase activity. <i>Nature</i> , 2017, 544, 120-123.	27.8	168
44	Specific Interaction of Tricyclic Antidepressants with Gold and Silver Nanostructures as Revealed by Combined One- and Two-Photon Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22958-22968.	3.1	15
45	Recent advances and novel treatments for sphingolipidoses. <i>Future Medicinal Chemistry</i> , 2017, 9, 1687-1700.	2.3	14
46	Cytotoxic 1-deoxysphingolipids are metabolized by a cytochrome P450-dependent pathway. <i>Journal of Lipid Research</i> , 2017, 58, 60-71.	4.2	45
47	The Activity of the Neutral Sphingomyelinase Is Important in T Cell Recruitment and Directional Migration. <i>Frontiers in Immunology</i> , 2017, 8, 1007.	4.8	35
48	A Rapid and Versatile Assay for Ago-Mediated Cleavage by Using Branched Rolling Circle Amplification. <i>ChemBioChem</i> , 2016, 17, 304-307.	2.6	7
49	Differences and Similarities in TRAIL- and Tumor Necrosis Factor-Mediated Necroptotic Signaling in Cancer Cells. <i>Molecular and Cellular Biology</i> , 2016, 36, 2626-2644.	2.3	25
50	Heat shock protein-based therapy as a potential candidate for treating the sphingolipidoses. <i>Science Translational Medicine</i> , 2016, 8, 355ra118.	12.4	137
51	Elucidating the chemical structure of native 1-deoxysphingosine. <i>Journal of Lipid Research</i> , 2016, 57, 1194-1203.	4.2	42
52	Inhibitors of Ceramidases. <i>Chemistry and Physics of Lipids</i> , 2016, 197, 60-68.	3.2	32
53	CFTR and sphingolipids mediate hypoxic pulmonary vasoconstriction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1614-23.	7.1	80
54	MicroRNA-145-targeted drug and its preventive effect on pulmonary arterial hypertension (patent) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50		

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55	A series of ceramide analogs modified at the 1-position with potent activity against the intracellular growth of <i>Chlamydia trachomatis</i> . <i>Future Medicinal Chemistry</i> , 2015, 7, 1971-1980.	2.3	34
56	Small Molecule Inhibitors of Ceramidases. <i>Cellular Physiology and Biochemistry</i> , 2014, 34, 197-212.	1.6	26
57	Labeled chemical biology tools for investigating sphingolipid metabolism, trafficking and interaction with lipids and proteins. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 1161-1173.	2.4	24
58	TRAIL-induced programmed necrosis as a novel approach to eliminate tumor cells. <i>BMC Cancer</i> , 2014, 14, 74.	2.6	50
59	miRNAs as novel therapeutic targets and diagnostic biomarkers for Parkinson's disease: a patent evaluation of WO2014018650. <i>Expert Opinion on Therapeutic Patents</i> , 2014, 24, 1271-1276.	5.0	14
60	Improved Plaque Assay Identifies a Novel Anti-Chlamydia Ceramide Derivative with Altered Intracellular Localization. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 5537-5546.	3.2	34
61	Facile Synthesis of the CERT Inhibitor HPA-12 and Some Novel Derivatives. <i>Chemistry - an Asian Journal</i> , 2014, 9, 2092-2094.	3.3	26
62	MicroRNA Maturation and Human Disease. <i>Methods in Molecular Biology</i> , 2014, 1095, 11-25.	0.9	34
63	Detection of microRNA Maturation Using Unmodified pre-microRNA and Branched Rolling Circle Amplification. <i>Methods in Molecular Biology</i> , 2014, 1095, 109-119.	0.9	1
64	Assaying Dicer-Mediated miRNA Maturation by Means of Fluorescent Substrates. <i>Methods in Molecular Biology</i> , 2014, 1095, 95-102.	0.9	0
65	Transformation-Associated Changes in Sphingolipid Metabolism Sensitize Cells to Lysosomal Cell Death Induced by Inhibitors of Acid Sphingomyelinase. <i>Cancer Cell</i> , 2013, 24, 379-393.	16.8	281
66	A chemo-enzymatic approach to specifically click-modified RNA. <i>Chemical Communications</i> , 2013, 49, 3128.	4.1	12
67	Perspectives in targeting miRNA function. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 6115-6118.	3.0	23
68	Development of a Novel FRET Probe for the Real-Time Determination of Ceramidase Activity. <i>ChemBioChem</i> , 2013, 14, 1049-1052.	2.6	27
69	Effective inhibition of acid and neutral ceramidases by novel B-13 and LCL-464 analogues. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 874-882.	3.0	32
70	Regioselective Diazo Transfer Reaction at the C3-Position of the 2-Desoxystreptamine Ring of Neamine Antibiotics. <i>Chemistry - A European Journal</i> , 2013, 19, 9151-9154.	3.3	13
71	Novel Drugs Targeting Sphingolipid Metabolism. <i>Handbook of Experimental Pharmacology</i> , 2013, , 187-196.	1.8	8
72	Novel fluorescent ceramide derivatives for probing ceramidase substrate specificity. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 6154-6161.	3.0	28

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73	Lung Endothelial Ca <sup>2+</sup> and Permeability Response to Platelet-Activating Factor Is Mediated by Acid Sphingomyelinase and Transient Receptor Potential Classical 6. American Journal of Respiratory and Critical Care Medicine, 2012, 185, 160-170.	5.6	80
74	Novel amide- and sulfonamide-based aromatic ethanolamines: Effects of various substituents on the inhibition of acid and neutral ceramidases. Bioorganic and Medicinal Chemistry, 2012, 20, 6162-6170.	3.0	19
75	Expression levels of the microRNA maturing microprocessor complex component DGCR8 and the RNA-induced silencing complex (RISC) components argonaute <sup>1</sup> , argonaute <sup>2</sup> , PACT, TARBP1, and TARBP2 in 2.7 epithelial skin cancer. Molecular Carcinogenesis, 2012, 51, 916-922.		96
76	Lung endothelial Ca <sup>2+</sup> and permeability response to PAF is mediated by TRPC6. FASEB Journal, 2012, 26, .	0.5	0
77	A Rapid Assay for miRNA Maturation by Using Unmodified pre-miRNA. ChemBioChem, 2011, 12, 2302-2305.	2.6	15
78	Potent Inhibition of Acid Ceramidase by Novel B-13 Analogues. Journal of Lipids, 2011, 2011, 1-8.	4.8	26
79	Development of carbohydrate-derived inhibitors of acid sphingomyelinase. Bioorganic and Medicinal Chemistry, 2010, 18, 939-944.	3.0	15
80	A Scaffold-Tree-Merging Strategy for Prospective Bioactivity Annotation of $\beta$ -Pyrones. Angewandte Chemie - International Edition, 2010, 49, 3666-3670.	13.8	41
81	Hsp70 stabilizes lysosomes and reverts Niemann-Pick disease-associated lysosomal pathology. Nature, 2010, 463, 549-553.	27.8	425
82	Small Molecule Inhibitors of Acid Sphingomyelinase. Cellular Physiology and Biochemistry, 2010, 26, 1-8.	1.6	65
83	Rolling-Circle Amplification: Unshared Advantages in miRNA Detection. ChemBioChem, 2009, 10, 1289-1291.	2.6	32
84	Potent Inhibition of Acid Sphingomyelinase by Phosphoinositide Analogues. ChemBioChem, 2009, 10, 2367-2374.	2.6	22
85	Short and Efficient Synthesis of Alkyne-Modified Amino Glycoside Building Blocks. European Journal of Organic Chemistry, 2009, 2009, 2788-2794.	2.4	22
86	Potent and Selective Inhibition of Acid Sphingomyelinase by Bisphosphonates. Angewandte Chemie - International Edition, 2009, 48, 7560-7563.	13.8	73
87	A fluorescence probe for assaying micro RNA maturation. Bioorganic and Medicinal Chemistry, 2008, 16, 49-55.	3.0	54
88	Development of an assay for the intermembrane transfer of cholesterol by Niemann-Pick C2 protein. Biological Chemistry, 2007, 388, 617-26.	2.5	60
89	DNA Made of Purines Only. Chemistry and Biology, 2007, 14, 467-469.	6.0	3
90	Biochemie und Molekularbiologie 2005. Nachrichten Aus Der Chemie, 2006, 54, 265-275.	0.0	0

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91	A Homogenous Assay for Micro RNA Maturation. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5550-5552.	13.8	86
92	MicroRNAs – Future Drug Targets?. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5048-5050.	13.8	80
93	RNA interference: from an ancient mechanism to a state of the art therapeutic application?. <i>Die Naturwissenschaften</i> , 2003, 90, 345-359.	1.6	45
94	Phosphatidylinositol-3,5-Bisphosphate Is a Potent and Selective Inhibitor of Acid Sphingomyelinase. <i>Biological Chemistry</i> , 2003, 384, 1293-8.	2.5	59
95	RNA Interference: Analyzing the Function of Glycoproteins and Glycosylating Proteins in Mammalian Cells. <i>Methods in Enzymology</i> , 2003, 363, 173-190.	1.0	1
96	Synthesis and biochemical investigation of scyphostatin analogues as inhibitors of neutral sphingomyelinase. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 2901-2904.	3.0	55
97	Synthesis of the First Selective Irreversible Inhibitor of Neutral Sphingomyelinase. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 137-140.	2.4	33
98	Manumycin A and Its Analogues Are Irreversible Inhibitors of Neutral Sphingomyelinase. <i>ChemBioChem</i> , 2001, 2, 141-143.	2.6	73
99	Synthesis of the First Selective Irreversible Inhibitor of Neutral Sphingomyelinase. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 1440-1442.	13.8	60
100	Discovery and mechanism of action of small molecule inhibitors of ceramidases. <i>Angewandte Chemie</i> , 0, , .	2.0	3