Christian Adam Olsen

List of Publications by Year
in descending order

102 papers	4,802 citations	117619 34 h-index	110368 64 g-index
133 all docs	133 docs citations	133 times ranked	5816 citing authors

#	Article	IF	Citations
1	Lysine Glutarylation Is a Protein Posttranslational Modification Regulated by SIRT5. Cell Metabolism, 2014, 19, 605-617.	16.2	647
2	Lipids Reprogram Metabolism to Become a Major Carbon Source for Histone Acetylation. Cell Reports, 2016, 17, 1463-1472.	6.4	266
3	SIRT4 Is a Lysine Deacylase that Controls Leucine Metabolism and Insulin Secretion. Cell Metabolism, 2017, 25, 838-855.e15.	16.2	259
4	Probing the Bioactive Conformation of an Archetypal Natural Product HDAC Inhibitor with Conformationally Homogeneous Triazoleâ€Modified Cyclic Tetrapeptides. Angewandte Chemie - International Edition, 2009, 48, 4718-4724.	13.8	141
5	Class I histone deacetylases (HDAC1â€“3) are histone lysine delactylases. Science Advances, 2022, 8, eabi6696.	10.3	141
6	Metabolic control by sirtuins and other enzymes that sense NAD+, NADH, or their ratio. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 991-998.	1.0	138
7	Cisâ€“Trans Amide Bond Rotamers in Î²-Peptoids and Peptoids: Evaluation of Stereoelectronic Effects in Backbone and Side Chains. Journal of the American Chemical Society, 2013, 135, 2835-2844.	13.7	122
8	Arylfluorosulfateâ€Based Electrophiles for Covalent Protein Labeling: A New Addition to the Arsenal. Angewandte Chemie - International Edition, 2019, 58, 957-966.	13.8	109
9	Modular Total Synthesis of Lamellarin D. Journal of Organic Chemistry, 2005, 70, 8231-8234.	3.2	108
10	Synthesis and Structureâ^'Activity Relationship Study of Potent Cytotoxic Analogues of the Marine Alkaloid Lamellarin D. Journal of Medicinal Chemistry, 2006, 49, 3257-3268.	6.4	100
11	Histone Deacetylase 11 Is an Îµ-N-Myristoyllysine Hydrolase. Cell Chemical Biology, 2018, 25, 849-856.e8.	5.2	98
12	Î²-Peptoid Foldamers at Last. Accounts of Chemical Research, 2015, 48, 2696-2704.	15.6	95
13	Investigating the Sensitivity of NAD+-dependent Sirtuin Deacylation Activities to NADH. Journal of Biological Chemistry, 2016, 291, 7128-7141.	3.4	91
14	Profiling of Substrates for Zincâ€dependent Lysine Deacylase Enzymes: HDAC3 Exhibits Decrotonylase Activity Inâ€…Vitro. Angewandte Chemie - International Edition, 2012, 51, 9083-9087.	13.8	90
15	Î±-Peptide/Î²-Peptoid Chimeras. Organic Letters, 2007, 9, 1549-1552.	4.6	83
16	Antimicrobial, Hemolytic, and Cytotoxic Activities of Î²â€Peptoidâ€“Peptide Hybrid Oligomers: Improved Properties Compared to Natural AMPs. ChemBioChem, 2010, 11, 1356-1360.	2.6	80
17	Expansion of the Lysine Acylation Landscape. Angewandte Chemie - International Edition, 2012, 51, 3755-3756.	13.8	80
18	Design, Synthesis, Biological Evaluation, and Structural Characterization of Potent Histone Deacetylase Inhibitors Based on Cyclic Î±/Î²-Tetrapeptide Architectures. Journal of the American Chemical Society, 2009, 131, 3033-3041.	13.7	78

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19	Discovery of Potent and Selective Histone Deacetylase Inhibitors via Focused Combinatorial Libraries of Cyclic Î±₃Î²-Tetrapeptides. Journal of Medicinal Chemistry, 2009, 52, 7836-7846.	6.4	73
20	Peptoidâ€“Peptide Hybrid Backbone Architectures. ChemBioChem, 2010, 11, 152-160.	2.6	73
21	Triangular prism-shaped Î²-peptoid helices as unique biomimetic scaffolds. Nature Communications, 2015, 6, 7013.	12.8	72
22	Cross-Talk between Staphylococcus aureus and Other Staphylococcal Species via the agr Quorum Sensing System. Frontiers in Microbiology, 2016, 7, 1733.	3.5	67
23	Substrates for Efficient Fluorometric Screening Employing the NAD-Dependent Sirtuin 5 Lysine Deacylase (KDAC) Enzyme. Journal of Medicinal Chemistry, 2012, 55, 5582-5590.	6.4	66
24	Mechanismâ€Based Inhibitors of the Human Sirtuin 5 Deacylase: Structureâ€“Activity Relationship, Biostructural, and Kinetic Insight. Angewandte Chemie - International Edition, 2017, 56, 14836-14841.	13.8	62
25	Guanidino groups greatly enhance the action of antimicrobial peptidomimetics against bacterial cytoplasmic membranes. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2492-2502.	2.6	58
26	Cellular uptake and membrane-destabilising properties of Î±-peptide/Î²-peptoid chimeras: lessons for the design of new cell-penetrating peptides. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 2487-2495.	2.6	55
27	The Effect of Various Zinc Binding Groups on Inhibition of Histone Deacetylases 1â€“11. ChemMedChem, 2014, 9, 614-626.	3.2	52
28	Innovative Strategies for Selective Inhibition of Histone Deacetylases. Cell Chemical Biology, 2016, 23, 759-768.	5.2	50
29	Discovery of HDAC Inhibitors That Lack an Active Site Zn²⁺-Binding Functional Group. ACS Medicinal Chemistry Letters, 2012, 3, 505-508.	2.8	47
30	A Continuous, Fluorogenic Sirtuin 2 Deacylase Assay: Substrate Screening and Inhibitor Evaluation. Journal of Medicinal Chemistry, 2016, 59, 1021-1031.	6.4	46
31	5,6-Dihydropyrrolo[2,1-b]isoquinolines as scaffolds for synthesis of lamellarin analogues. Tetrahedron Letters, 2005, 46, 2041-2044.	1.4	41
32	Antiplasmodial and Prehemolytic Activities of Î±â€Peptideâ€“Î²â€Peptoid Chimeras. ChemBioChem, 2007, 8, 1781-1784.	2.6	41
33	Identification of autoinducing thiodepsipeptides from staphylococci enabled by native chemical ligation. Nature Chemistry, 2019, 11, 463-469.	13.6	41
34	Î²â€peptoid â€œFoldamersâ€â€”Why the additional methylene unit?. Biopolymers, 2011, 96, 561-566.	2.4	37
35	Natural and Synthetic Macrocyclic Inhibitors of the Histone Deacetylase Enzymes. ChemBioChem, 2017, 18, 5-49.	2.6	37
36	SIRT5 Is a Druggable Metabolic Vulnerability in Acute Myeloid Leukemia. Blood Cancer Discovery, 2021, 2, 266-287.	5.0	37

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37	Aziridines in Parallelâ€•and Solidâ€Phase Synthesis. European Journal of Organic Chemistry, 2007, 2007, 1717-1724.	2.4	34
38	Macrocyclic Peptoidâ€“Peptide Hybrids as Inhibitors of Class I Histone Deacetylases. ACS Medicinal Chemistry Letters, 2012, 3, 749-753.	2.8	34
39	N-Alkylation Reactions and Indirect Formation of Amino Functionalities in Solid-Phase Synthesis. Synthesis, 2005, 2005, 2631-2653.	2.3	33
40	Total Synthesis and Full Histone Deacetylase Inhibitory Profiling of Azumamides Aâ€“E as Well as Î²²- epi-Azumamide E and Î²³-epi-Azumamide E. Journal of Medicinal Chemistry, 2013, 56, 6512-6520.	6.4	32
41	Targeting Sirtuins: Substrate Specificity and Inhibitor Design. Progress in Molecular Biology and Translational Science, 2018, 154, 25-69.	1.7	32
42	The agr Inhibitors Solonamide B and Analogues Alter Immune Responses to Staphylococccus aureus but Do Not Exhibit Adverse Effects on Immune Cell Functions. PLoS ONE, 2016, 11, e0145618.	2.5	31
43	Chemical Editing of Macrocyclic Natural Products and Kinetic Profiling Reveal Slow, Tight-Binding Histone Deacetylase Inhibitors with Picomolar Affinities. Biochemistry, 2017, 56, 5134-5146.	2.5	29
44	The Effects of Conformational Constraints and Steric Bulk in the Amino Acid Moiety of Philanthotoxins on AMPAR Antagonism. Journal of Medicinal Chemistry, 2005, 48, 56-70.	6.4	28
45	Potential Agents for Treating Cystic Fibrosis: Cyclic Tetrapeptides That Restore Trafficking and Activity of Î”F508-CFTR. ACS Medicinal Chemistry Letters, 2011, 2, 703-707.	2.8	27
46	Arylfluorsulfatâ€basierte Elektrophile fÃ¼r die kovalente Proteinmarkierung. Angewandte Chemie, 2019, 131, 969-978.	2.0	27
47	Effect of Co-inhabiting Coagulase Negative Staphylococci on S. aureus agr Quorum Sensing, Host Factor Binding, and Biofilm Formation. Frontiers in Microbiology, 2019, 10, 2212.	3.5	27
48	Aminolysis of Resin-BoundN-Nosylaziridine-2-carboxylic Acids. Organic Letters, 2006, 8, 3371-3374.	4.6	26
49	Direct Peptide Cyclization and One-Pot Modification Using the MeDbz Linker. Journal of Organic Chemistry, 2018, 83, 10525-10534.	3.2	26
50	Cyclic tetrapeptide HDAC inhibitors as potential therapeutics for spinal muscular atrophy: Screening with iPSC-derived neuronal cells. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 3289-3293.	2.2	25
51	Solid-Phase Synthesis of Rigid Acylpolyamines Using TemporaryN-4,4â€˜-Dimethoxytrityl Protection in the Presence of Trityl Linkers. Journal of Organic Chemistry, 2004, 69, 6149-6152.	3.2	23
52	Effects of Thionation and Fluorination on Cisâ€“Trans Isomerization in Tertiary Amides: An Investigation of N-Alkylglycine (Peptoid) Rotamers. Journal of Organic Chemistry, 2015, 80, 5415-5427.	3.2	23
53	Mechanism-based inhibitors of SIRT2: structureâ€“activity relationship, X-ray structures, target engagement, regulation of Î±-tubulin acetylation and inhibition of breast cancer cell migration. RSC Chemical Biology, 2021, 2, 612-626.	4.1	23
54	Fukuyamaâ€“Mitsunobu alkylation in amine synthesis on solid phase revisited: N-alkylation with secondary alcohols and synthesis of curtatoxins. Tetrahedron, 2005, 61, 6046-6055.	1.9	22

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55	Selectively Nâ€Protected Enantiopure 2,5â€Disubstituted Piperazines: Avoiding the Pitfalls in Solidâ€Phase Fukuyamaâ€“Mitsunobu Cyclizations. Chemistry - A European Journal, 2009, 15, 2966-2978.	3.3	22
56	Assessment of Structurally Diverse Philanthotoxin Analogues for Inhibitory Activity on Ionotropic Glutamate Receptor Subtypes: Discovery of Nanomolar, Nonselective, and Use-Dependent Antagonists. Journal of Medicinal Chemistry, 2010, 53, 7441-7451.	6.4	22
57	An Update on Lysine Deacylases Targeting the Expanding â€œAcylomeâ€. ChemMedChem, 2014, 9, 434-437.	3.2	22
58	A potent trifluoromethyl ketone histone deacetylase inhibitor exhibits class-dependent mechanism of action. MedChemComm, 2016, 7, 464-470.	3.4	22
59	Structureâ€“Activity Relationship Study Based on Autoinducing Peptide (AIP) from Dog Pathogen S. schleiferi. Organic Letters, 2017, 19, 5276-5279.	4.6	22
60	Hydroxamic acid-modified peptide microarrays for profiling isozyme-selective interactions and inhibition of histone deacetylases. Nature Communications, 2021, 12, 62.	12.8	22
61	Total synthesis and structural validation of cyclodepsipeptides solonamide A and B. Tetrahedron, 2014, 70, 7721-7732.	1.9	21
62	Expedient Protocol for Solid-Phase Synthesis of Secondary and Tertiary Amines. Organic Letters, 2004, 6, 1935-1938.	4.6	20
63	Methyl Effect in Azumamides Provides Insight Into Histone Deacetylase Inhibition by Macrocycles. Journal of Medicinal Chemistry, 2014, 57, 9644-9657.	6.4	20
64	Solid-Phase Polyamine Synthesis Using Piperazine and Piperidine Building Blocks. Organic Letters, 2003, 5, 4183-4185.	4.6	19
65	Dimeric Building Blocks for Solid-Phase Synthesis of Î±-Peptide-Î²-Peptoid Chimeras. Synthesis, 2008, 2008, 2381-2390.	2.3	19
66	Small Molecules from Spiders Used as Chemical Probes. Angewandte Chemie - International Edition, 2011, 50, 11296-11311.	13.8	19
67	Zn2+-Dependent Histone Deacetylases in Plants: Structure and Evolution. Trends in Plant Science, 2021, 26, 741-757.	8.8	19
68	Chiral Posttranslational Modification to Lysine Îµ-Amino Groups. Accounts of Chemical Research, 2022, 55, 1456-1466.	15.6	18
69	An azumamide C analogue without the zinc-binding functionality. MedChemComm, 2014, 5, 1849-1855.	3.4	16
70	Kinetic Tuning of HDAC Inhibitors Affords Potent Inducers of Progranulin Expression. ACS Chemical Neuroscience, 2019, 10, 3769-3777.	3.5	16
71	Investigation of Carboxylic Acid Isosteres and Prodrugs for Inhibition of the Human SIRT5 Lysine Deacylase Enzyme**. Angewandte Chemie - International Edition, 2022, 61, .	13.8	16
72	Solid-phase synthesis of neuroactive spiderâ€“wasp hybrid toxin analogues using a backbone amide linker. Tetrahedron Letters, 2007, 48, 405-408.	1.4	15

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73	A Robust Proton Flux (pHlux) Assay for Studying the Function and Inhibition of the Influenza A M2 Proton Channel. Biochemistry, 2018, 57, 5949-5956.	2.5	15
74	Functionalized Helical Î²-Peptoids. Journal of Organic Chemistry, 2019, 84, 3762-3779.	3.2	15
75	Peptide Inhibitors of the Î±-Cobratoxinâ€“Nicotinic Acetylcholine Receptor Interaction. Journal of Medicinal Chemistry, 2020, 63, 13709-13718.	6.4	15
76	Dethioacylation by Sirtuins 1â€“3: Considerations for Drug Design Using Mechanism-Based Sirtuin Inhibition. ACS Medicinal Chemistry Letters, 2020, 11, 1886-1892.	2.8	15
77	Photo Crossâ€Linking Probes Containing Ïµâ€Nâ€Thioacyllysine and Ïµâ€Nâ€Acylâ€(Î´â€aza)lysine Residues. Chemistry - A European Journal, 2020, 26, 3862-3869.	3.3	14
78	Tuning Wasp Toxin Structure for Nicotinic Receptor Antagonism: Cyclohexylalanine-Containing Analogues as Potent and Voltage-Dependent Blockers. ChemMedChem, 2006, 1, 303-305.	3.2	13
79	Determination of Slow-Binding HDAC Inhibitor Potency and Subclass Selectivity. ACS Medicinal Chemistry Letters, 2022, 13, 779-785.	2.8	13
80	Side-Chain-AnchoredNÎ±-Fmoc-Tyr-OPfp for Bidirectional Solid-Phase Synthesis. Organic Letters, 2005, 7, 1703-1706.	4.6	12
81	An NAD⁺-Dependent Sirtuin Depropionylase and Deacetylase (Sir2La) from the Probiotic Bacterium Lactobacillus acidophilus NCFM. Biochemistry, 2018, 57, 3903-3915.	2.5	12
82	Random Mutagenesis Analysis of the Influenza A M2 Proton Channel Reveals Novel Resistance Mutants. Biochemistry, 2018, 57, 5957-5968.	2.5	11
83	Mitochondria-targeted inhibitors of the human SIRT3 lysine deacetylase. RSC Chemical Biology, 2021, 2, 627-635.	4.1	11
84	Backbone-Fluorinated 1,2,3-Triazole-Containing Dipeptide Surrogates. Journal of Organic Chemistry, 2017, 82, 11613-11619.	3.2	10
85	Mechanismâ€Based Inhibitors of the Human Sirtuin 5 Deacylase: Structureâ€“Activity Relationship, Biostructural, and Kinetic Insight. Angewandte Chemie, 2017, 129, 15032-15037.	2.0	7
86	Synthesis of Trifluoromethyl Ketone Containing Amino Acid Building Blocks for the Preparation of Peptide-Based Histone Deacetylase (HDAC) Inhibitors. Synthesis, 2018, 50, 4037-4046.	2.3	7
87	The Chemical Biologyâ€Medicinal Chemistry Continuum: EFMCâ€²s Vision. ChemBioChem, 2021, 22, 2823-2825.	2.6	7
88	Scalable and Purification-Free Synthesis of a Myristoylated FluoroÂgenic Sirtuin Substrate. Synlett, 2017, 28, 2169-2173.	1.8	6
89	High-throughput screening of histone deacetylases and determination of kinetic parameters using fluorogenic assays. STAR Protocols, 2021, 2, 100313.	1.2	6
90	Rearrangement of Thiodepsipeptides by S â†' N Acyl Shift Delivers Homodetic Autoinducing Peptides. Journal of the American Chemical Society, 2021, 143, 10514-10518.	13.7	5

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91	An acetylation photoswitch. Nature Chemical Biology, 2016, 12, 306-307.	8.0	4
92	Increasing the Functional Group Diversity in Helical Î²-Peptoids: Achievement of Solvent- and pH-Dependent Folding. Journal of Organic Chemistry, 2020, 85, 10466-10478.	3.2	2
93	Investigation of Carboxylic Acid Isosteres and Prodrugs for Inhibition of the Human SIRT5 Lysine Deacylase Enzyme**. Angewandte Chemie, 0, , .	2.0	2
94	Diols as Building Blocks in Solid-Phase Synthesis of Polyamine Toxins by Fukuyama-Mitsunobu Alkylation. Synlett, 2004, 2004, 473-476.	1.8	1
95	Inside Cover: Peptoid-Peptide Hybrid Backbone Architectures (ChemBioChem 2/2010). ChemBioChem, 2010, 11, 134-134.	2.6	1
96	Finding the gas pedal on a slow sirtuin. Journal of Biological Chemistry, 2020, 295, 1400-1401.	3.4	1
97	Inside Cover: Antimicrobial, Hemolytic, and Cytotoxic Activities of Î²-Peptoid-Peptide Hybrid Oligomers: Improved Properties Compared to Natural AMPs (ChemBioChem 10/2010). ChemBioChem, 2010, 11, 1310-1310.	2.6	0
98	Frontispiece: Mechanismâ€Based Inhibitors of the Human Sirtuin 5 Deacylase: Structureâ€“Activity Relationship, Biostructural, and Kinetic Insight. Angewandte Chemie - International Edition, 2017, 56, .	13.8	0
99	Frontispiz: Mechanismâ€Based Inhibitors of the Human Sirtuin 5 Deacylase: Structureâ€“Activity Relationship, Biostructural, and Kinetic Insight. Angewandte Chemie, 2017, 129, .	2.0	0
100	Hydroxamic Acid-Containing Peptides in the Study of Histone Deacetylases. Topics in Medicinal Chemistry, 2019, , 29-54.	0.8	0
101	Finding the gas pedal on a slow sirtuin. Journal of Biological Chemistry, 2020, 295, 1400-1401.	3.4	0
102	On-Resin Peptide Cyclization Using the 3-Amino-4-(Methylamino)Benzoic Acid MeDbz Linker. Methods in Molecular Biology, 2022, 2371, 101-115.	0.9	0