

PÅ¥l Stenmark

List of Publications by Year in descending order

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100
papers

4,496
citations

126907

33
h-index

118850

62
g-index

107
all docs

107
docs citations

107
times ranked

5568
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and Biochemical Investigation of Class I Ribonucleotide Reductase from the Hyperthermophile <i>Aquifex aeolicus</i> . <i>Biochemistry</i> , 2022, 61, 92-106.	2.5	6
2	Structural Analysis of Botulinum Neurotoxins Type B and E by Cryo-EM. <i>Toxins</i> , 2022, 14, 14.	3.4	5
3	Pharmacological targeting of MTHFD2 suppresses acute myeloid leukemia by inducing thymidine depletion and replication stress. <i>Nature Cancer</i> , 2022, 3, 156-172.	13.2	30
4	A nucleotide-sensing oligomerization mechanism that controls NrdR-dependent transcription of ribonucleotide reductases. <i>Nature Communications</i> , 2022, 13, 2700.	12.8	2
5	The First Structure of Human MTHFD2L and Its Implications for the Development of Isoform-Selective Inhibitors. <i>ChemMedChem</i> , 2022, 17, .	3.2	6
6	Small-molecule activation of OGG1 increases oxidative DNA damage repair by gaining a new function. <i>Science</i> , 2022, 376, 1471-1476.	12.6	20
7	Nudix hydrolase 18 catalyzes the hydrolysis of active triphosphate metabolites of the antivirals remdesivir, ribavirin, and molnupiravir. <i>Journal of Biological Chemistry</i> , 2022, 298, 102169.	3.4	3
8	Structural and functional analysis of the inhibition of equine glutathione transferase A3-3 by organotin endocrine disrupting pollutants. <i>Environmental Pollution</i> , 2021, 268, 115960.	7.5	4
9	Crystal structures of NUDT15 variants enabled by a potent inhibitor reveal the structural basis for thiopurine sensitivity. <i>Journal of Biological Chemistry</i> , 2021, 296, 100568.	3.4	8
10	Re-engineering Botox. <i>Science</i> , 2021, 371, 782-782.	12.6	2
11	NUDT15-mediated hydrolysis limits the efficacy of anti-HCMV drug ganciclovir. <i>Cell Chemical Biology</i> , 2021, 28, 1693-1702.e6.	5.2	9
12	NUDT15 polymorphism influences the metabolism and therapeutic effects of acyclovir and ganciclovir. <i>Nature Communications</i> , 2021, 12, 4181.	12.8	11
13	Mechanism of Ganglioside Receptor Recognition by Botulinum Neurotoxin Serotype E. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8315.	4.1	5
14	Structure of the native pyruvate dehydrogenase complex reveals the mechanism of substrate insertion. <i>Nature Communications</i> , 2021, 12, 5277.	12.8	39
15	Structure and steroid isomerase activity of <i>Drosophila</i> glutathione transferase E14 essential for ecdysteroid biosynthesis. <i>FEBS Letters</i> , 2020, 594, 1187-1195.	2.8	13
16	Synaptotagmin Binding to Botulinum Neurotoxins. <i>Biochemistry</i> , 2020, 59, 491-498.	2.5	2
17	Structural and Biochemical Characterization of Botulinum Neurotoxin Subtype B2 Binding to Its Receptors. <i>Toxins</i> , 2020, 12, 603.	3.4	6
18	Development of a chemical probe against NUDT15. <i>Nature Chemical Biology</i> , 2020, 16, 1120-1128.	8.0	14

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19	Targeting OGG1 arrests cancer cell proliferation by inducing replication stress. <i>Nucleic Acids Research</i> , 2020, 48, 12234-12251.	14.5	29
20	Crystal structures of human PAICS reveal substrate and product binding of an emerging cancer target. <i>Journal of Biological Chemistry</i> , 2020, 295, 11656-11668.	3.4	14
21	Characterization of a membrane binding loop leads to engineering botulinum neurotoxin B with improved therapeutic efficacy. <i>PLoS Biology</i> , 2020, 18, e3000618.	5.6	18
22	MutT homologue 1 (MTH1) removes N6-methyl-dATP from the dNTP pool. <i>Journal of Biological Chemistry</i> , 2020, 295, 4761-4772.	3.4	10
23	Massively parallel variant characterization identifies <i>NUDT15</i> alleles associated with thiopurine toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5394-5401.	7.1	95
24	The First Structure of an Active Mammalian dCTPase and its Complexes With Substrate Analogs and Products. <i>Journal of Molecular Biology</i> , 2020, 432, 1126-1142.	4.2	2
25	A ribonucleotide reductase from <i>Clostridium botulinum</i> reveals distinct evolutionary pathways to regulation via the overall activity site. <i>Journal of Biological Chemistry</i> , 2020, 295, 15576-15587.	3.4	12
26	A neurotoxin that specifically targets <i>Anopheles</i> mosquitoes. <i>Nature Communications</i> , 2019, 10, 2869.	12.8	50
27	Structural basis for the interaction of the chaperone Cbp3 with newly synthesized cytochrome b during mitochondrial respiratory chain assembly. <i>Journal of Biological Chemistry</i> , 2019, 294, 16663-16671.	3.4	6
28	The ALFA-tag is a highly versatile tool for nanobody-based bioscience applications. <i>Nature Communications</i> , 2019, 10, 4403.	12.8	278
29	Engineered botulinum neurotoxin B with improved binding to human receptors has enhanced efficacy in preclinical models. <i>Science Advances</i> , 2019, 5, eaau7196.	10.3	29
30	Structural basis of inhibition of the human serine hydroxymethyltransferase <i>SHMT2</i> by antifolate drugs. <i>FEBS Letters</i> , 2019, 593, 1863-1873.	2.8	34
31	Crystal structure of the catalytic domain of the <i>Weissella oryzae</i> botulinum-like toxin. <i>FEBS Letters</i> , 2019, 593, 1403-1410.	2.8	8
32	The Structure and Classification of Botulinum Toxins. <i>Handbook of Experimental Pharmacology</i> , 2019, 263, 11-33.	1.8	25
33	Crystal Structure and Substrate Specificity of the 8-oxo-dGTP Hydrolase <i>NUDT1</i> from <i>Arabidopsis thaliana</i> . <i>Biochemistry</i> , 2019, 58, 887-899.	2.5	7
34	Botulinum and Tetanus Neurotoxins. <i>Annual Review of Biochemistry</i> , 2019, 88, 811-837.	11.1	140
35	Identification of a Botulinum Neurotoxin-like Toxin in a Commensal Strain of <i>Enterococcus faecium</i> . <i>Cell Host and Microbe</i> , 2018, 23, 169-176.e6.	11.0	127
36	Targeted <i>NUDT5</i> inhibitors block hormone signaling in breast cancer cells. <i>Nature Communications</i> , 2018, 9, 250.	12.8	56

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37	Human NUDT22 Is a UDP-Glucose/Galactose Hydrolase Exhibiting a Unique Structural Fold. <i>Structure</i> , 2018, 26, 295-303.e6.	3.3	11
38	Crystal Structures and Inhibitor Interactions of Mouse and Dog MTH1 Reveal Species-Specific Differences in Affinity. <i>Biochemistry</i> , 2018, 57, 593-603.	2.5	11
39	Structural characterisation of the catalytic domain of botulinum neurotoxin X - high activity and unique substrate specificity. <i>Scientific Reports</i> , 2018, 8, 4518.	3.3	30
40	Mechanism of Peptide Binding and Cleavage by the Human Mitochondrial Peptidase Neurolysin. <i>Journal of Molecular Biology</i> , 2018, 430, 348-362.	4.2	29
41	Small-molecule inhibitor of OGG1 suppresses proinflammatory gene expression and inflammation. <i>Science</i> , 2018, 362, 834-839.	12.6	156
42	Cotranslational Folding of a Pentarepeat $\hat{1}^2$ -Helix Protein. <i>Journal of Molecular Biology</i> , 2018, 430, 5196-5206.	4.2	25
43	MutT homologue 1 (MTH1) catalyzes the hydrolysis of mutagenic O6-methyl-dGTP. <i>Nucleic Acids Research</i> , 2018, 46, 10888-10904.	14.5	13
44	Crystal Structure of Botulinum Neurotoxin A2 in Complex with the Human Protein Receptor SV2C Reveals Plasticity in Receptor Binding. <i>Toxins</i> , 2018, 10, 153.	3.4	14
45	Germline variation in the oxidative DNA repair genes NUDT1 and OGG1 is not associated with hereditary colorectal cancer or polyposis. <i>Human Mutation</i> , 2018, 39, 1214-1225.	2.5	10
46	Crystal Structure of the Emerging Cancer Target MTHFD2 in Complex with a Substrate-Based Inhibitor. <i>Cancer Research</i> , 2017, 77, 937-948.	0.9	67
47	Glycans Confer Specificity to the Recognition of Ganglioside Receptors by Botulinum Neurotoxin A. <i>Journal of the American Chemical Society</i> , 2017, 139, 218-230.	13.7	50
48	Crystal structures of OrfX2 and P47 from a Botulinum neurotoxin OrfX \hat{A} type gene cluster. <i>FEBS Letters</i> , 2017, 591, 3781-3792.	2.8	14
49	Fragment-Based Discovery and Optimization of Enzyme Inhibitors by Docking of Commercial Chemical Space. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 8160-8169.	6.4	32
50	Novel spirocyclic systems via multicomponent aza-Diels-Alder reaction. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 7758-7764.	2.8	4
51	Identification and characterization of a novel botulinum neurotoxin. <i>Nature Communications</i> , 2017, 8, 14130.	12.8	196
52	A comprehensive structural, biochemical and biological profiling of the human NUDIX hydrolase family. <i>Nature Communications</i> , 2017, 8, 1541.	12.8	124
53	Structural basis for the unique ganglioside and cell membrane recognition mechanism of botulinum neurotoxin DC. <i>Nature Communications</i> , 2017, 8, 1637.	12.8	26
54	The structure of the tetanus toxin reveals pH -mediated domain dynamics. <i>EMBO Reports</i> , 2017, 18, 1306-1317.	4.5	61

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55	Engineered botulinum neurotoxin B with improved efficacy for targeting human receptors. <i>Nature Communications</i> , 2017, 8, 53.	12.8	46
56	NUDT15 Hydrolyzes 6-Thio-DeoxyGTP to Mediate the Anticancer Efficacy of 6-Thioguanine. <i>Cancer Research</i> , 2016, 76, 5501-5511.	0.9	96
57	A comparison of X-ray and calculated structures of the enzyme MTH1. <i>Journal of Molecular Modeling</i> , 2016, 22, 168.	1.8	11
58	The C repressor of the P2 bacteriophage. <i>Journal of Biomolecular NMR</i> , 2016, 64, 175-180.	2.8	0
59	DNA compaction by the bacteriophage protein Cox studied on the single DNA molecule level using nanofluidic channels. <i>Nucleic Acids Research</i> , 2016, 44, gkw352.	14.5	19
60	Discovery of the First Potent and Selective Inhibitors of Human dCTP Pyrophosphatase 1. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 1140-1148.	6.4	40
61	Hypoxic Signaling and the Cellular Redox Tumor Environment Determine Sensitivity to MTH1 Inhibition. <i>Cancer Research</i> , 2016, 76, 2366-2375.	0.9	40
62	Crystal structure, biochemical and cellular activities demonstrate separate functions of MTH1 and MTH2. <i>Nature Communications</i> , 2015, 6, 7871.	12.8	96
63	Vinylidic MIDA Boronates: New Building Blocks for the Synthesis of Aza Heterocycles. <i>Chemistry - A European Journal</i> , 2015, 21, 7394-7398.	3.3	23
64	Crystal structure of the bacteriophage P2 integrase catalytic domain. <i>FEBS Letters</i> , 2015, 589, 3556-3563.	2.8	3
65	Structural insight into DNA binding and oligomerization of the multifunctional Cox protein of bacteriophage P2. <i>Nucleic Acids Research</i> , 2014, 42, 2725-2735.	14.5	9
66	MTH1 inhibition eradicates cancer by preventing sanitation of the dNTP pool. <i>Nature</i> , 2014, 508, 215-221.	27.8	419
67	Structure of dual receptor binding to botulinum neurotoxin B. <i>Nature Communications</i> , 2013, 4, 2058.	12.8	65
68	Crystal Structures of Botulinum Neurotoxin DC in Complex with Its Protein Receptors Synaptotagmin I and II. <i>Structure</i> , 2013, 21, 1602-1611.	3.3	30
69	Organellar oligopeptidase (OOP) provides a complementary pathway for targeting peptide degradation in mitochondria and chloroplasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3761-9.	7.1	50
70	Botulinum neurotoxin D-C uses synaptotagmin I/II as receptors and human synaptotagmin II is not an effective receptor for type B, D-C, and G toxins. <i>Journal of Cell Science</i> , 2012, 125, 3233-42.	2.0	90
71	The Manganese Ion of the Heterodinuclear Mn/Fe Cofactor in <i>Chlamydia trachomatis</i> Ribonucleotide Reductase R2c Is Located at Metal Position 1. <i>Journal of the American Chemical Society</i> , 2012, 134, 123-125.	13.7	30
72	Cofactor mobility determines reaction outcome in the IMPDH and GMPR (β-barrel) enzymes. <i>Nature Chemical Biology</i> , 2011, 7, 950-958.	8.0	35

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73	Crystal structure of human MTH1 and the 8-oxo-dGMP product complex. <i>FEBS Letters</i> , 2011, 585, 2617-2621.	2.8	70
74	Inhibition of chlamydial class Ic ribonucleotide reductase by C-terminal peptides from protein R2. <i>Journal of Peptide Science</i> , 2011, 17, 756-762.	1.4	1
75	Purification, Modeling, and Analysis of Botulinum Neurotoxin Subtype A5 (BoNT/A5) from <i>Clostridium botulinum</i> Strain A661222. <i>Applied and Environmental Microbiology</i> , 2011, 77, 4217-4222.	3.1	34
76	Structural and functional studies of the human phosphoribosyltransferase domain containing protein 1. <i>FEBS Journal</i> , 2010, 277, 4920-4930.	4.7	8
77	Structural studies of tri-functional human GART. <i>Nucleic Acids Research</i> , 2010, 38, 7308-7319.	14.5	28
78	Crystal structure of the P2 C-repressor: a binder of non-palindromic direct DNA repeats. <i>Nucleic Acids Research</i> , 2010, 38, 7778-7790.	14.5	10
79	Crystal Structure of the Botulinum Neurotoxin Type G Binding Domain: Insight into Cell Surface Binding. <i>Journal of Molecular Biology</i> , 2010, 397, 1287-1297.	4.2	36
80	The structure of the PP2A regulatory subunit B56 β : The remaining piece of the PP2A jigsaw puzzle. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 74, 212-221.	2.6	18
81	The crystal structure of human cleavage and polyadenylation specific factor ϵ 5 reveals a dimeric Nudix protein with a conserved catalytic site. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 73, 1047-1052.	2.6	10
82	The Crystal Structure of the Human Toll-like Receptor 10 Cytoplasmic Domain Reveals a Putative Signaling Dimer. <i>Journal of Biological Chemistry</i> , 2008, 283, 11861-11865.	3.4	171
83	Crystal Structure of Botulinum Neurotoxin Type A in Complex with the Cell Surface Co-Receptor GT1b: Insight into the Toxin-Neuron Interaction. <i>PLoS Pathogens</i> , 2008, 4, e1000129.	4.7	150
84	Crystal Structure of Human Inosine Triphosphatase. <i>Journal of Biological Chemistry</i> , 2007, 282, 3182-3187.	3.4	48
85	Crystal Structure of Human Cytosolic 5 ϵ -Nucleotidase II. <i>Journal of Biological Chemistry</i> , 2007, 282, 17828-17836.	3.4	56
86	The Crystal Structure of the Bifunctional Deaminase/Reductase RibD of the Riboflavin Biosynthetic Pathway in <i>Escherichia coli</i> : Implications for the Reductive Mechanism. <i>Journal of Molecular Biology</i> , 2007, 373, 48-64.	4.2	27
87	Structure of the high-valent FeIII/FeIV state in ribonucleotide reductase (RNR) of <i>Chlamydia trachomatis</i> : Combined EPR, 57Fe-, 1H-ENDOR and X-ray studies. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 1254-1263.	2.3	14
88	The structure of human collapsin response mediator protein 2, a regulator of axonal growth. <i>Journal of Neurochemistry</i> , 2007, 101, 906-917.	3.9	63
89	Structures of the hydrolase domain of human 10-formyltetrahydrofolate dehydrogenase and its complex with a substrate analogue. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 1294-1299.	2.5	10
90	GRETA, a new multifermenter system for structural genomics and process optimization. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 1227-1231.	2.5	5

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91	Structure of the synthetase domain of human CTP synthetase, a target for anticancer therapy. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 613-617.	0.7	33
92	The Crystal Structure of a Human PP2A Phosphatase Activator Reveals a Novel Fold and Highly Conserved Cleft Implicated in Protein-Protein Interactions. <i>Journal of Biological Chemistry</i> , 2006, 281, 22434-22438.	3.4	17
93	The Radical Site in Chlamydial Ribonucleotide Reductase Defines a New R2 Subclass. <i>Science</i> , 2004, 305, 245-248.	12.6	143
94	Crystals of the ribonucleotide reductase R2 protein from <i>Chlamydia trachomatis</i> obtained by heavy-atom co-crystallization. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 376-378.	2.5	4
95	Crystal Structure of CaiB, a Type-III CoA Transferase in Carnitine Metabolism. <i>Biochemistry</i> , 2004, 43, 13996-14003.	2.5	28
96	Screening for functional expression and overexpression of a family of diiron-containing interfacial membrane proteins using the univector recombination system. <i>Protein Science</i> , 2003, 12, 124-134.	7.6	11
97	A prokaryotic alternative oxidase present in the bacterium <i>Novosphingobium aromaticivorans</i> . <i>FEBS Letters</i> , 2003, 552, 189-192.	2.8	55
98	MEMBRANE-BOUND DIIRON CARBOXYLATE PROTEINS. <i>Annual Review of Plant Biology</i> , 2003, 54, 497-517.	18.7	134
99	EPR Studies of the Mitochondrial Alternative Oxidase. <i>Journal of Biological Chemistry</i> , 2002, 277, 43608-43614.	3.4	75
100	A New Member of the Family of Di-iron Carboxylate Proteins. <i>Journal of Biological Chemistry</i> , 2001, 276, 33297-33300.	3.4	118