Martin Horn

List of Publications by Year
in descending order

43 papers	1,708 citations	257450 24 h-index	276875 41 g-index
43 all docs	43 docs citations	43 times ranked	2038 citing authors

#	Article	IF	Citations
1	Ontogeny constrains systemic protease inhibitor response in Nicotiana attenuata. Journal of Chemical Ecology, 2001, 27, 547-568.	1.8	236
2	New insights into the machinery of blood digestion by ticks. Trends in Parasitology, 2013, 29, 276-285.	3.3	171
3	Hemoglobin Digestion in Blood-Feeding Ticks: Mapping a Multipeptidase Pathway by Functional Proteomics. Chemistry and Biology, 2009, 16, 1053-1063.	6.0	156
4	RNA Interference in Schistosoma mansoni Schistosomula: Selectivity, Sensitivity and Operation for Larger-Scale Screening. PLoS Neglected Tropical Diseases, 2010, 4, e850.	3.0	107
5	Crystal structure and functional characterization of an immunomodulatory salivary cystatin from the soft tick Ornithodoros moubata. Biochemical Journal, 2010, 429, 103-112.	3.7	73
6	Profiling of proteolytic enzymes in the gut of the tick Ixodes ricinus reveals an evolutionarily conserved network of aspartic and cysteine peptidases. Parasites and Vectors, 2008, 1, 7.	2.5	71
7	Two secreted cystatins of the soft tick Ornithodoros moubata: differential expression pattern and inhibitory specificity. Biological Chemistry, 2006, 387, 1635-44.	2.5	64
8	Structural Basis for Inhibition of Cathepsin B Drug Target from the Human Blood Fluke, Schistosoma mansoni. Journal of Biological Chemistry, 2011, 286, 35770-35781.	3.4	60
9	Inhibitory specificity and insecticidal selectivity of ?-amylase inhibitor from. Phytochemistry, 2005, 66, 31-39.	2.9	53
10	Digestive Î±â€amylases of the flour moth Ephestiaâ€ƒkuehniellaâ€“ adaptation to alkaline environment and plant inhibitors. FEBS Journal, 2009, 276, 3531-3546.	4.7	51
11	A Coumarinâ€Labeled Vinyl Sulfone as Tripeptidomimetic Activityâ€Based Probe for Cysteine Cathepsins. ChemBioChem, 2014, 15, 955-959.	2.6	45
12	Quantum Mechanics-Based Scoring Rationalizes the Irreversible Inactivation of Parasitic Schistosoma mansoni Cysteine Peptidase by Vinyl Sulfone Inhibitors. Journal of Physical Chemistry B, 2013, 117, 14973-14982.	2.6	43
13	IrCL1 â€“ The haemoglobinolytic cathepsin L of the hard tick, Ixodes ricinus. International Journal for Parasitology, 2011, 41, 1253-1262.	3.1	40
14	Characterization of Gut-associated Cathepsin D Hemoglobinase from Tick Ixodes ricinus (IrCD1). Journal of Biological Chemistry, 2012, 287, 21152-21163.	3.4	36
15	Differential Elicitation of Two Processing Proteases Controls the Processing Pattern of the Trypsin Proteinase Inhibitor Precursor in Nicotiana attenuata. Plant Physiology, 2005, 139, 375-388.	4.8	34
16	Mapping the Pro-Peptide of the Schistosoma mansoni Cathepsin B1 Drug Target: Modulation of Inhibition by Heparin and Design of Mimetic Inhibitors. ACS Chemical Biology, 2011, 6, 609-617.	3.4	34
17	Activation Route of the Schistosoma mansoni Cathepsin B1 Drug Target: Structural Map with a Glycosaminoglycan Switch. Structure, 2014, 22, 1786-1798.	3.3	34
18	Prolyl Oligopeptidase from the Blood Fluke Schistosoma mansoni: From Functional Analysis to Anti-schistosomal Inhibitors. PLoS Neglected Tropical Diseases, 2015, 9, e0003827.	3.0	34

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19	Multienzyme degradation of host serum albumin in ticks. Ticks and Tick-borne Diseases, 2016, 7, 604-613.	2.7	34
20	Cathepsin D Propeptide:Â Mechanism and Regulation of Its Interaction with the Catalytic Coreâ€. Biochemistry, 2006, 45, 15474-15482.	2.5	32
21	Trypsin- and Chymotrypsin-Like Serine Proteases in Schistosoma mansoni â€“ â€˜The Undiscovered Countryâ€™. PLoS Neglected Tropical Diseases, 2014, 8, e2766.	3.0	31
22	Excretion/secretion products from Schistosoma mansoni adults, eggs and schistosomula have unique peptidase specificity profiles. Biochimie, 2016, 122, 99-109.	2.6	31
23	Arginine-based structures are specific inhibitors of cathepsin C. FEBS Journal, 2000, 267, 3330-3336.	0.2	26
24	SmSP2: A serine protease secreted by the blood fluke pathogen Schistosoma mansoni with anti-hemostatic properties. PLoS Neglected Tropical Diseases, 2018, 12, e0006446.	3.0	26
25	De Novo Design of Î±-Amylase Inhibitor: A Small Linear Mimetic of Macromolecular Proteinaceous Ligands. Chemistry and Biology, 2005, 12, 1349-1357.	6.0	25
26	Free-thiol Cys331 exposed during activation process is critical for native tetramer structure of cathepsin C (dipeptidyl peptidase I). Protein Science, 2002, 11, 933-943.	7.6	19
27	Biomimetic Macrocyclic Inhibitors of Human Cathepsin D: Structureâ€“Activity Relationship and Binding Mode Analysis. Journal of Medicinal Chemistry, 2020, 63, 1576-1596.	6.4	19
28	Serine proteases in schistosomes and other trematodes. International Journal for Parasitology, 2018, 48, 333-344.	3.1	15
29	Novel Structural Mechanism of Allosteric Regulation of Aspartic Peptidases via an Evolutionarily Conserved Exosite. Cell Chemical Biology, 2018, 25, 318-329.e4.	5.2	14
30	Activation processing of cathepsin H impairs recognition by its propeptide. Biological Chemistry, 2005, 386, 941-7.	2.5	11
31	Complex modulation of peptidolytic activity of cathepsin D by sphingolipids. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2011, 1811, 1097-1104.	2.4	11
32	Digestive proteolysis in the Colorado potato beetle, Leptinotarsa decemlineata: Activity-based profiling and imaging of a multipeptidase network. Insect Biochemistry and Molecular Biology, 2016, 78, 1-11.	2.7	11
33	An Activity-Based Probe for Cathepsin K Imaging with Excellent Potency and Selectivity. Journal of Medicinal Chemistry, 2021, 64, 13793-13806.	6.4	10
34	Druggable Hot Spots in the Schistosomiasis Cathepsin B1 Target Identified by Functional and Binding Mode Analysis of Potent Vinyl Sulfone Inhibitors. ACS Infectious Diseases, 2021, 7, 1077-1088.	3.8	9
35	Azanitrile Inhibitors of the SmCB1 Protease Target Are Lethal to Schistosoma mansoni: Structural and Mechanistic Insights into Chemotype Reactivity. ACS Infectious Diseases, 2021, 7, 189-201.	3.8	9
36	Characterization ofP. falciparumdipeptidyl aminopeptidase 3 specificity identifies differences in amino acid preferences between peptideâ€based substrates and covalent inhibitors. FEBS Journal, 2019, 286, 3998-4023.	4.7	7

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37	Singleâ€•and Doubleâ€Headed Chemical Probes for Detection of Active Cathepsin D in a Cancer Cell Proteome. ChemBioChem, 2010, 11, 1538-1541.	2.6	5
38	Structural and Functional Characterization of Schistosoma mansoni Cathepsin B1. Methods in Molecular Biology, 2020, 2151, 145-158.	0.9	5
39	Collection of Excretory/Secretory Products from Individual Developmental Stages of the Blood Fluke Schistosoma mansoni. Methods in Molecular Biology, 2020, 2151, 55-63.	0.9	5
40	Highly potent inhibitors of cathepsin K with a differently positioned cyanohydrazide warhead: structural analysis of binding mode to mature and zymogen-like enzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 515-526.	5.2	5
41	Profiling system for skin kallikrein proteolysis applied in gene-deficient mouse models. Biological Chemistry, 2018, 399, 1085-1089.	2.5	2
42	Spatial expression pattern of serine proteases in the blood fluke Schistosoma mansoni determined by fluorescence RNA in situ hybridization. Parasites and Vectors, 2021, 14, 274.	2.5	2
43	Sensitive Fluorescence In Situ Hybridization on Semithin Sections of Adult Schistosoma mansoni Using DIG-Labeled RNA Probes. Methods in Molecular Biology, 2020, 2151, 43-53.	0.9	2