Michael Mares

List of Publications by Year
in descending order

57 papers	2,150 citations	201674 27 h-index	233421 45 g-index
59 all docs	59 docs citations	59 times ranked	2304 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	A tick salivary protein targets cathepsin G and chymase and inhibits host inflammation and platelet aggregation. Blood, 2011, 117, 736-744.	1.4	122
5	Multiple functions of pro-parts of aspartic proteinase zymogens. FEBS Letters, 1994, 343, 6-10.	2.8	92
6	Dynamics of digestive proteolytic system during blood feeding of the hard tick Ixodes ricinus. Parasites and Vectors, 2010, 3, 119.	2.5	88
7	Crystal structure and functional characterization of an immunomodulatory salivary cystatin from the soft tick <i>Ornithodoros moubata</i>. Biochemical Journal, 2010, 429, 103-112.	3.7	73
8	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
9	Two secreted cystatins of the soft tick Ornithodoros moubata: differential expression pattern and inhibitory specificity. Biological Chemistry, 2006, 387, 1635-44.	2.5	64
10	Explosive Backpacks in Old Termite Workers. Science, 2012, 337, 436-436.	12.6	61
11	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
12	Inhibitory specificity and insecticidal selectivity of ?-amylase inhibitor from. Phytochemistry, 2005, 66, 31-39.	2.9	53
13	Digestive Î±â€amylases of the flour moth <i>Ephestiaâ€ƒkuehniella</i>â€" adaptation to alkaline environment and plant inhibitors. FEBS Journal, 2009, 276, 3531-3546.	4.7	51
14	A Coumarinâ€Labeled Vinyl Sulfone as Tripeptidomimetic Activityâ€Based Probe for Cysteine Cathepsins. ChemBioChem, 2014, 15, 955-959.	2.6	45
15	Quantum Mechanics-Based Scoring Rationalizes the Irreversible Inactivation of Parasitic <i>Schistosoma mansoni</i> Cysteine Peptidase by Vinyl Sulfone Inhibitors. Journal of Physical Chemistry B, 2013, 117, 14973-14982.	2.6	43
16	IrCL1 â€" The haemoglobinolytic cathepsin L of the hard tick, Ixodes ricinus. International Journal for Parasitology, 2011, 41, 1253-1262.	3.1	40
17	Characterization of Gut-associated Cathepsin D Hemoglobinase from Tick Ixodes ricinus (IrCD1). Journal of Biological Chemistry, 2012, 287, 21152-21163.	3.4	36
18	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

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19	Mapping the Pro-Peptide of the <i>Schistosoma mansoni</i> Cathepsin B1 Drug Target: Modulation of Inhibition by Heparin and Design of Mimetic Inhibitors. ACS Chemical Biology, 2011, 6, 609-617.	3.4	34
20	Activation Route of the Schistosoma mansoni Cathepsin B1 Drug Target: Structural Map with a Glycosaminoglycan Switch. Structure, 2014, 22, 1786-1798.	3.3	34
21	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
22	Multienzyme degradation of host serum albumin in ticks. Ticks and Tick-borne Diseases, 2016, 7, 604-613.	2.7	34
23	The structure and function of Iristatin, a novel immunosuppressive tick salivary cystatin. Cellular and Molecular Life Sciences, 2019, 76, 2003-2013.	5.4	33
24	Cathepsin D Propeptide:Â Mechanism and Regulation of Its Interaction with the Catalytic Coreâ€. Biochemistry, 2006, 45, 15474-15482.	2.5	32
25	Trypsin- and Chymotrypsin-Like Serine Proteases in Schistosoma mansoni â€" â€˜The Undiscovered Countryâ€™. PLoS Neglected Tropical Diseases, 2014, 8, e2766.	3.0	31
26	Excretion/secretion products from Schistosoma mansoni adults, eggs and schistosomula have unique peptidase specificity profiles. Biochimie, 2016, 122, 99-109.	2.6	31
27	In vitro and in vivo inhibition of Î±-amylases of stored-product mite Acarus siro. Experimental and Applied Acarology, 2005, 35, 281-291.	1.6	29
28	Comparison of the effects of pyrokinins and related peptides identified from arthropods on pupariation behaviour in flesh fly (Sarcophaga bullata) larvae (Diptera: Sarcophagidae). Journal of Insect Physiology, 2004, 50, 233-239.	2.0	27
29	Arginine-based structures are specific inhibitors of cathepsin C. FEBS Journal, 2000, 267, 3330-3336.	0.2	26
30	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
31	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
32	Characterization of interaction of gH and gL glycoproteins of varicella-zoster virus: their processing and trafficking. Journal of General Virology, 2000, 81, 1545-1552.	2.9	25
33	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
34	Molecular Mechanism of the Two-Component Suicidal Weapon of<i>Neocapritermes taracua</i>Old Workers. Molecular Biology and Evolution, 2016, 33, 809-819.	8.9	19
35	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
36	Combined effect of an antifeedant ?-amylase inhibitor and a predator Cheyletus malaccensis in controlling the stored-product mite Acarus siro. Physiological Entomology, 2007, 32, 41-49.	1.5	15

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37	Enzymatic activity and immunoreactivity of Aca s 4, an alpha-amylase allergen from the storage mite Acarus siro. BMC Biochemistry, 2012, 13, 3.	4.4	14
38	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
39	Crystallization and diffraction analysis of the serpin IRS-2 from the hard tickIxodes ricinus. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 1453-1457.	0.7	13
40	Activation processing of cathepsin H impairs recognition by its propeptide. Biological Chemistry, 2005, 386, 941-7.	2.5	11
41	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
42	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
43	Mialostatin, a Novel Midgut Cystatin from Ixodes ricinus Ticks: Crystal Structure and Regulation of Host Blood Digestion. International Journal of Molecular Sciences, 2021, 22, 5371.	4.1	10
44	An Activity-Based Probe for Cathepsin K Imaging with Excellent Potency and Selectivity. Journal of Medicinal Chemistry, 2021, 64, 13793-13806.	6.4	10
45	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
46	Azanitrile Inhibitors of the SmCB1 Protease Target Are Lethal to <i>Schistosoma mansoni</i>: Structural and Mechanistic Insights into Chemotype Reactivity. ACS Infectious Diseases, 2021, 7, 189-201.	3.8	9
47	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
48	Crystallization and preliminary crystallographic study of cathepsin D inhibitor from potatoes. Journal of Molecular Biology, 1991, 218, 21-22.	4.2	6
49	Side Reaction During the Deprotection of Cys(Acm)-Containing Peptides with Iodine. Synthesis of Disulfide Fragments from Cathepsin D Structure. Collection of Czechoslovak Chemical Communications, 1995, 60, 1042-1049.	1.0	5
50	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
51	Cathepsin D. , 2013, , 54-63.		5
52	Structural and Functional Characterization of Schistosoma mansoni Cathepsin B1. Methods in Molecular Biology, 2020, 2151, 145-158.	0.9	5
53	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
54	Crystal structures of the complex of a kallikrein inhibitor from<i>Bauhinia bauhinioides</i>with trypsin and modeling of kallikrein complexes. Acta Crystallographica Section D: Structural Biology, 2019, 75, 56-69.	2.3	3

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55	Profiling system for skin kallikrein proteolysis applied in gene-deficient mouse models. Biological Chemistry, 2018, 399, 1085-1089.	2.5	2
56	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
57	Structural studies of complexes of kallikrein 4 with wild-type and mutated forms of the Kunitz-type inhibitor BbKI. Acta Crystallographica Section D: Structural Biology, 2021, 77, 1084-1098.	2.3	1