Alan J. Barrett

List of Publications by Year
in descending order

149	22,526	14655 66	10445 139
papers	citations	h-index	g-index

162	162	162	17097
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The MEROPS database of proteolytic enzymes, their substrates and inhibitors in 2017 and a comparison with peptidases in the PANTHER database. Nucleic Acids Research, 2018, 46, D624-D632.	14.5	1,234
2	Twenty years of theMEROPSdatabase of proteolytic enzymes, their substrates and inhibitors. Nucleic Acids Research, 2016, 44, D343-D350.	14.5	648
3	Using the MEROPS Database for Proteolytic Enzymes and Their Inhibitors and Substrates. Current Protocols in Bioinformatics, 2014, 48, 1.25.1-33.	25.8	39
4	MEROPS: the database of proteolytic enzymes, their substrates and inhibitors. Nucleic Acids Research, 2014, 42, D503-D509.	14.5	782
5	Animal Legumain. , 2013, , 2309-2314.		0
6	Thimet Oligopeptidase. , 2013, , 504-509.		0
7	Neurolysin. , 2013, , 509-513.		0
8	MEROPS: the database of proteolytic enzymes, their substrates and inhibitors. Nucleic Acids Research, 2012, 40, D343-D350.	14.5	1,047
9	Asparagine Peptide Lyases. Journal of Biological Chemistry, 2011, 286, 38321-38328.	3.4	89
10	MEROPS: the peptidase database. Nucleic Acids Research, 2010, 38, D227-D233.	14.5	786
11	MEROPS: the peptidase database. Nucleic Acids Research, 2007, 36, D320-D325.	14.5	497
12	â€˜Speciesâ€™ of peptidases. Biological Chemistry, 2007, 388, 1151-7.	2.5	32
13	An Introduction to Peptidases and the Merops Database. , 2007, , 161-179.		10
14	MEROPS: the peptidase database. Nucleic Acids Research, 2006, 34, D270-D272.	14.5	477
15	Peptidases, families, and clans. , 2005, , .		0
16	Introduction: metallopeptidases and their clans. , 2004, , 231-267.		31
17	MEROPS: the peptidase database. Nucleic Acids Research, 2004, 32, 160D-164.	14.5	355
18	Evolutionary families of peptidase inhibitors. Biochemical Journal, 2004, 378, 705-716.	3.7	528

#	Article	IF	Citations
19	Thimet oligopeptidase. , 2004, , 352-356.		7
20	Neurolysin. , 2004, , 356-359.		0
21	A comparison of Pfam and MEROPS: two databases, one comprehensive, and one specialised. BMC Bioinformatics, 2003, 4, 17.	2.6	7
22	Aza-Peptide Epoxides: A New Class of Inhibitors Selective for Clan CD Cysteine Proteases. ChemInform, 2003, 34, no.	0.0	0
23	Aza-Peptide Epoxides: Potent and Selective Inhibitors of Schistosoma mansoni and Pig Kidney Legumains (Asparaginyl Endopeptidases). Biological Chemistry, 2003, 384, 1613-1618.	2.5	27
24	Pyroglutamyl-peptidase I: cloning, sequencing, and characterisation of the recombinant human enzyme. Protein Expression and Purification, 2003, 28, 111-119.	1.3	23
25	Managing Peptidases in the Genomic Era. Biological Chemistry, 2003, 384, 873-82.	2.5	36
26	Inhibition of Mammalian Legumain by Michael Acceptors and AzaAsn-Halomethylketones. Biological Chemistry, 2002, 383, 1205-14.	2.5	29
27	MEROPS: the protease database. Nucleic Acids Research, 2002, 30, 343-346.	14.5	190
28	Aza-Peptide Epoxides:Â A New Class of Inhibitors Selective for Clan CD Cysteine Proteases. Journal of Medicinal Chemistry, 2002, 45, 4958-4960.	6.4	59
29	Legumain Forms from Plants and Animals Differ in Their Specificity. Biological Chemistry, 2001, 382, 953-9.	2.5	37
30	The MEROPS Database as a Protease Information System. Journal of Structural Biology, 2001, 134, 95-102.	2.8	124
31	Inhibition of distant caspase homologues by natural caspase inhibitors. Biochemical Journal, 2001, 357, 575.	3.7	16
32	Inhibition of distant caspase homologues by natural caspase inhibitors. Biochemical Journal, 2001, 357, 575-580.	3.7	28
33	Activation of Progelatinase A by Mammalian Legumain, a Recently Discovered Cysteine Proteinase. Biological Chemistry, 2001, 382, 777-784.	2.5	82
34	Evolutionary Lines of Cysteine Peptidases. Biological Chemistry, 2001, 382, 727-734.	2.5	177
35	Evolutionary Lines of Cysteine Peptidases. Biological Chemistry, 2001, 382, 727-33.	2.5	179
36	Activation of Progelatinase A by Mammalian Legumain, a Recently Discovered Cysteine Proteinase. Biological Chemistry, 2001, 382, 777-83.	2.5	69

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37	Activation of human prolegumain by cleavage at a C-terminal asparagine residue. Biochemical Journal, 2000, 352, 327.	3.7	27
38	MEROPS: the peptidase database. Nucleic Acids Research, 2000, 28, 323-325.	14.5	109
39	Proteases. Current Protocols in Protein Science, 2000, 21, Unit 21.1.	2.8	16
40	Peptidases: a view of classification and nomenclature. , 1999, , 1-12.		4
41	Tripeptidyl-peptidase I is apparently the CLN2 protein absent in classical late-infantile neuronal ceroid lipofuscinosis. BBA - Proteins and Proteomics, 1999, 1429, 496-500.	2.1	89
42	Colorimetric and Fluorimetric Microplate Assays for Legumain and a Staining Reaction for Detection of the Enzyme after Electrophoresis. Analytical Biochemistry, 1999, 273, 278-283.	2.4	33
43	MEROPS: the peptidase database. Nucleic Acids Research, 1999, 27, 325-331.	14.5	421
44	Inhibition of Mammalian Legumain by Some Cystatins Is Due to a Novel Second Reactive Site. Journal of Biological Chemistry, 1999, 274, 19195-19203.	3.4	246
45	Pig kidney legumain: an asparaginyl endopeptidase with restricted specificity. Biochemical Journal, 1999, 339, 743-749.	3.7	69
46	Pig kidney legumain: an asparaginyl endopeptidase with restricted specificity. Biochemical Journal, 1999, 339, 743.	3.7	31
47	An asparaginyl endopeptidase processes a microbial antigen for class II MHC presentation. Nature, 1998, 396, 695-699.	27.8	344
48	Thimet oligopeptidase: site-directed mutagenesis disproves previous assumptions about the nature of the catalytic site. FEBS Letters, 1998, 435, 16-20.	2.8	5
49	Identification of the active site of legumain links it to caspases, clostripain and gingipains in a new clan of cysteine endopeptidases. FEBS Letters, 1998, 441, 361-365.	2.8	197
50	Cloning and expression of mouse legumain, a lysosomal endopeptidase. Biochemical Journal, 1998, 335, 111-117.	3.7	125
51	Cloning, Isolation, and Characterization of Mammalian Legumain, an Asparaginyl Endopeptidase. Journal of Biological Chemistry, 1997, 272, 8090-8098.	3.4	314
52	Structure of membrane glutamate carboxypeptidase. BBA - Proteins and Proteomics, 1997, 1339, 247-252.	2.1	79
53	Families and clans of cysteine peptidases. Journal of Computer - Aided Molecular Design, 1996, 6, 1-11.	1.0	54
54	Dipeptidyl-peptidase II is related to lysosomal Pro-X carboxypeptidase. BBA - Proteins and Proteomics, 1996, 1298, 1-3.	2.1	17

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55	Immunoglobulin E Antibodies to Papaya Proteinases and Their Relevance to Chemonucleolysis. Spine, 1995, 20, 981-985.	2.0	11
56	[43] Pitrilysin. Methods in Enzymology, 1995, 248, 684-692.	1.0	11
57	Enzyme Nomenclature. Recommendations 1992. Supplement 2: Corrections and Additions (1994). FEBS Journal, 1995, 232, 1-1.	0.2	25
58	Characterization of a Mitochondrial Metallopeptidase Reveals Neurolysin as a Homologue of Thimet Oligopeptidase. Journal of Biological Chemistry, 1995, 270, 2092-2098.	3.4	63
59	[7] Families of aspartic peptidases, and those of unknown catalytic mechanism. Methods in Enzymology, 1995, 248, 105-120.	1.0	131
60	[32] Thimet oligopeptidase and oligopeptidase M or neurolysin. Methods in Enzymology, 1995, 248, 529-556.	1.0	92
61	Families and Clans of Serine Peptidases. Archives of Biochemistry and Biophysics, 1995, 318, 247-250.	3.0	177
62	Immunolocalization of Thimet Oligopeptidase in Chicken Embryonic Fibroblasts. Experimental Cell Research, 1995, 216, 80-85.	2.6	10
63	[13] Evolutionary families of metallopeptidases. Methods in Enzymology, 1995, 248, 183-228.	1.0	707
64	The possible role of neutrophil proteinases in damage to articular cartilage. Agents and Actions, 1994, 43, 194-201.	0.7	9
65	[32] Families of cysteine peptidases. Methods in Enzymology, 1994, 244, 461-486.	1.0	311
66	[2] Families of serine peptidases. Methods in Enzymology, 1994, 244, 19-61.	1.0	506
67	[1] Classification of peptidases. Methods in Enzymology, 1994, 244, 1-15.	1.0	209
68	Inhibition of cartilage proteoglycan release by a specific inactivator of cathepsin b and an inhibitor of matrix metalloproteinases. evidence for two converging pathways of chondrocyte-mediated proteoglycan degradation. Arthritis and Rheumatism, 1993, 36, 1709-1717.	6.7	122
69	The Two Cysteine Endopeptidases of Legume Seeds: Purification and Characterization by Use of Specific Fluorometric Assays. Archives of Biochemistry and Biophysics, 1993, 303, 208-213.	3.0	177
70	Oligopeptidases, and the Emergence of the Prolyl Oligopeptidase Family. Biological Chemistry Hoppe-Seyler, 1992, 373, 353-360.	1.4	86
71	The effects of selective matrix degradation on the short-term compressive properties of adult human articular cartilage. Biochimica Et Biophysica Acta - General Subjects, 1992, 1116, 147-154.	2.4	78
72	CA074 methyl ester: A proinhibitor for intracellular cathepsin B. Archives of Biochemistry and Biophysics, 1992, 299, 377-380.	3.0	188

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73	Quantification of peptide aldehyde ligands immobilized for the affinity chromatography of endopeptidases. Analytical Biochemistry, 1992, 204, 328-331.	2.4	1
74	Clostripain: Characterization of the active site. FEBS Letters, 1991, 283, 277-280.	2.8	31
75	Structure/function relationships in the inhibition of thimet oligopeptidase by carboxyphenylpropyl-peptides. FEBS Letters, 1991, 294, 183-186.	2.8	14
76	Types and families of endopeptidases. Biochemical Society Transactions, 1991, 19, 707-715.	3.4	36
77	Potential metal ligands in the insulinase superfamily of endopeptidases. Biochemical Society Transactions, 1991, 19, 289S-289S.	3.4	4
78	N-[1(RS)-Carboxy-3-phenylpropyl]peptides as inhibitors of thimet oligopeptidase. Biochemical Society Transactions, 1991, 19, 290S-290S.	3.4	1
79	An alternative quenched fluorescence substrate for Pz-peptidase. Analytical Biochemistry, 1990, 186, 112-115.	2.4	54
80	Evolution of proteins of the cystatin superfamily. Journal of Molecular Evolution, 1990, 30, 60-71.	1.8	277
81	The Preparation of Fully Active Chymopapain Free of Contaminating Proteinases. Biological Chemistry Hoppe-Seyler, 1990, 371, 1083-1088.	1.4	27
82	FLUSYS: a software package for the collection and analysis of kinetic and scanning data from Perkin-Elmer fluorimeters. Bioinformatics, 1990, 6, 118-119.	4.1	19
83	Video enhanced imaging of the fluorescent Na+probe SBFI indicates that colonic crypts absorb fluid by generating a hypertonic interstitial fluid. FEBS Letters, 1990, 260, 187-194.	2.8	35
84	Selective cleavage of glycyl bonds by papaya proteinase IV. FEBS Letters, 1990, 260, 195-197.	2.8	42
85	Interactions of papaya proteinase IV with inhibitors. FEBS Letters, 1990, 262, 58-60.	2.8	39
86	The amino acid sequence of a novel inhibitor of cathepsin D from potato. FEBS Letters, 1990, 267, 13-15.	2.8	60
87	A distinct thimet peptidase from rat liver mitochondria. FEBS Letters, 1990, 264, 84-86.	2.8	18
88	Inhibition of cysteine proteinases by a protein inhibitor from potato. FEBS Letters, 1990, 269, 328-330.	2.8	33
89	Activity of Pz-peptidase and endo-oligopeptidase are due to the same enzyme. Biochemical and Biophysical Research Communications, 1989, 162, 1460-1464.	2.1	22
90	Purification and characterization of Pz-peptidase from rabbit muscle. Archives of Biochemistry and Biophysics, 1989, 274, 138-144.	3.0	23

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91	Stem bromelain: Amino acid sequence and implications for weak binding of cystatin. FEBS Letters, 1989, 247, 419-424.	2.8	129
92	Papaya proteinase IV amino acid sequence. FEBS Letters, 1989, 258, 109-112.	2.8	41
93	Ananain: A novel cysteine proteinase found in pineapple stem. Archives of Biochemistry and Biophysics, 1988, 267, 262-270.	3.0	60
94	[21] Human kininogens. Methods in Enzymology, 1988, 163, 240-256.	1.0	40
95	Quantitative Assessment of Human Proteinases as Agents for Chemonucleolysis. Spine, 1988, 13, 188-192.	2.0	14
96	Phosphorylation, glycosylation, and proteolytic activity of the 52-kD estrogen-induced protein secreted by MCF7 cells.. Journal of Cell Biology, 1987, 104, 253-262.	5.2	146
97	Rapid isolation of human kininogens. Thrombosis Research, 1987, 48, 187-193.	1.7	39
98	The role of aspartic and cysteine proteinases in albumin degradation by rat kidney cortical lysosomes. Archives of Biochemistry and Biophysics, 1987, 256, 687-691.	3.0	31
99	The cystatins: a new class of peptidase inhibitors. Trends in Biochemical Sciences, 1987, 12, 193-196.	7.5	262
100	Plasma from rheumatoid arthritis patients does not contain abnormally high levels of Î±2-macroglobulinâ€“proteinase complexes. Arthritis and Rheumatism, 1987, 30, 872-877.	6.7	3
101	The Biochemistry of the Action of Chymopapain in Relief of Sciatica. Spine, 1986, 11, 688-694.	2.0	17
102	The proteolytic activities of chymopapain, papain, and papaya proteinase III. BBA - Proteins and Proteomics, 1985, 828, 196-204.	2.1	92
103	Distribution of Cystatin C (Î³-Trace), an Inhibitor of Lysosomal Cysteine Proteinases, in the Anterior Lobe of Simian and Human Pituitary Glands. Neuroendocrinology, 1985, 41, 400-404.	2.5	21
104	Amino acid sequence of the intracellular cysteine proteinase inhibitor cystatin B from human liver. Biochemical and Biophysical Research Communications, 1985, 131, 1187-1192.	2.1	108
105	Effect of X-ray contrast media on the action of chymopapain on the intervertebral disc: anin vitrostudy of cartilage degradation. British Journal of Radiology, 1984, 57, 475-477.	2.2	8
106	Tosyl-Lysyl Chloromethane Alters Glucocorticoid- Receptor Complex Nuclear Binding and Physical Properties*. Endocrinology, 1984, 115, 65-72.	2.8	19
107	Immunolocalization of human cystatins in neutrophils and lymphocytes. Histochemistry, 1984, 80, 373-377.	1.9	48
108	The disulphide bridges of human cystatin C (Î³-trace) and chicken cystatin. FEBS Letters, 1984, 170, 370-374.	2.8	51

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109	The place of human Î³-trace (cystatin C) amongst the cysteine proteinase inhibitors. Biochemical and Biophysical Research Communications, 1984, 120, 631-636.	2.1	282
110	Influence of proteinase inhibitors on glucocoticoid receptor binding. Biochimica Et Biophysica Acta - General Subjects, 1984, 798, 187-191.	2.4	3
111	Proteolytic and other metabolic pathways in lysosomes. Biochemical Society Transactions, 1984, 12, 899-902.	3.4	28
112	The characterization of calpains and calpain inhibitors from chicken gizzard smooth muscle. Biochemical Society Transactions, 1984, 12, 1106-1107.	3.4	11
113	Plasma Arginine Esterase in Cystic Fibrosis: Kinetics of Activation, Identification as Plasma Kallikrein, Reaction with Î¼2-Macroglobulin and Comparison with Levels in Normal Plasma. Pediatric Research, 1982, 16, 613-620.	2.3	5
114	Evolution of Î±2-macroglobulin. The structure of a protein homologous with human Î±2-macroglobulin from plaice (Pleuronectes platessa L.) plasma. Biochemical Journal, 1982, 205, 105-115.	3.7	48
115	Evidence that extracellular cathepsin D is not responsible for the resorption of cartilage matrix in culture. Biochimica Et Biophysica Acta - General Subjects, 1982, 714, 307-312.	2.4	34
116	A Direct Spectrophotometric Microassay for Sulfated Glycosaminoglycans in Cartilage Cultures. Connective Tissue Research, 1982, 9, 247-248.	2.3	1,255
117	Identification of plasma kallikrein as an activator of latent collagenase in rheumatoid synovial fluid. BBA - Proteins and Proteomics, 1982, 702, 133-142.	2.1	71
118	[57] Cystatin, the egg white inhibitor of cysteine proteinases. Methods in Enzymology, 1981, , 771-778.	1.0	108
119	[41] Cathepsin B, cathepsin H, and cathepsin L. Methods in Enzymology, 1981, 80 Pt C, 535-561.	1.0	1,533
120	[44] Leukocyte Elastase. Methods in Enzymology, 1981, 80 Pt C, 581-588.	1.0	125
121	[42] Cathepsin G. Methods in Enzymology, 1981, 80 Pt C, 561-565.	1.0	100
122	[54] Î±2-Macroglobulin. Methods in Enzymology, 1981, 80 Pt C, 737-754.	1.0	266
123	Which proteinases degrade cartilage matrix ?. Seminars in Arthritis and Rheumatism, 1981, 11, 52-56.	3.4	9
124	Cathepsin D: The Lysosomal Aspartic Proteinase. Novartis Foundation Symposium, 1980, , 37-50.	1.1	18
125	A rapid and reproducible assay for collagenase using [1-14C]acetylated collagen. Analytical Biochemistry, 1979, 99, 340-345.	2.4	364
126	The possible role of neutrophil proteinases in damage to articular cartilage. Agents and Actions, 1978, 8, 11-18.	0.7	156

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127	Preparation of antibody fragments: Conditions for proteolysis compared by SDS slab-gel electrophoresis and quantitation of antibody yield. Journal of Immunological Methods, 1978, 21, 305-315.	1.4	26
128	The Degradation of Human Glomerular Basement Membrane with Purified Lysosomal Proteinases: Evidence for the Pathogenic Role of the Polymorphonuclear Leucocyte in Glomerulonephritis. Clinical Science and Molecular Medicine, 1978, 54, 233-240.	0.8	111
129	The degradation of articular collagen by neutrophil proteinases. Biochimica Et Biophysica Acta - Biomembranes, 1977, 483, 386-397.	2.6	167
130	Human Cathepsin D. Advances in Experimental Medicine and Biology, 1977, 95, 291-300.	1.6	29
131	An improved color reagent for use in Barrett's assay of cathepsin B. Analytical Biochemistry, 1976, 76, 374-376.	2.4	94
132	Chicken Î±2-proteinase inhibitor: A serum protein homologous with ovoinhibitor of egg white. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1974, 371, 52-62.	1.7	29
133	Neutral proteinase of rabbit skin: An enzyme capable of degrading skin protein and inducing an inflammatory response. Biochimica Et Biophysica Acta - Biomembranes, 1974, 350, 1-12.	2.6	34
134	Cathepsin B1. A lysosomal enzyme that degrades native collagen. Biochemical Journal, 1974, 137, 387-398.	3.7	382
135	The interaction of Î±2-macroglobulin with proteinases. Binding and inhibition of mammalian collagenases and other metal proteinases. Biochemical Journal, 1974, 139, 359-368.	3.7	191
136	Cathepsins B1 and D. Action on human cartilage proteoglycans. Biochimica Et Biophysica Acta - Biomembranes, 1973, 302, 411-419.	2.6	108
137	IMMUNOINHIBITION OF INTRACELLULAR PROTEIN DIGESTION IN MACROPHAGES. Journal of Experimental Medicine, 1973, 137, 1124-1141.	8.5	82
138	Human cathepsin B1. Purification and some properties of the enzyme. Biochemical Journal, 1973, 131, 809-822.	3.7	324
139	Human cathepsin B1. Inhibition by Î±2-macroglobulin and other serum proteins. Biochemical Journal, 1973, 131, 823-831.	3.7	98
140	The interaction of Î±2-macroglobulin with proteinases. Characteristics and specificity of the reaction, and a hypothesis concerning its molecular mechanism. Biochemical Journal, 1973, 133, 709-724.	3.7	1,035
141	THE IMMUNOCYTOCHEMICAL DEMONSTRATION OF CATHEPSIN D. Journal of Histochemistry and Cytochemistry, 1972, 20, 261-265.	2.5	50
142	A new assay for cathepsin B1 and other thiol proteinases. Analytical Biochemistry, 1972, 47, 280-293.	2.4	425
143	The biochemistry and function of mucosubstances. The Histochemical Journal, 1971, 3, 213-221.	0.6	23
144	The inhibition by antisera of the lysosomal proteinase cathepsin D. Immunochemistry, 1970, 7, 878.	1.2	0

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145	Microassay for cathepsin D shows an unexpected effect of cycloheximide on limb-bone rudiments in organ culture. Experimental Cell Research, 1970, 61, 470-472.	2.6	76
146	Unsuitability of Leucine Naphthylamide for the Histochemical Demonstration of Lysosomal Proteolytic Activity. Nature, 1969, 224, 279-280.	27.8	23
147	Specific Inhibition of Cartilage Breakdown. Nature, 1969, 222, 285-286.	27.8	62
148	Effect of Cortisol on the Synthesis of Chondroitin Sulphate by Embryonic Cartilage. Nature, 1966, 211, 83-84.	27.8	38
149	Chondromucoprotein-degrading Enzymes. Nature, 1966, 211, 1188-1189.	27.8	24