Alan J. Barrett

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

153 papers	18,868 citations	62 h-index	137 g-index
162 ext. papers	20,268 ext. citations	7.2 avg, IF	6.81 L-index

#	Paper	IF	Citations
153	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	20.1	643
152	Twenty years of the MEROPS database of proteolytic enzymes, their substrates and inhibitors. *Nucleic Acids Research*, **2016**, 44, D343-50	20.1	489
151	MEROPS: the database of proteolytic enzymes, their substrates and inhibitors. *Nucleic Acids Research*, **2014**, 42, D503-9	20.1	602
150	Peptidases **2014**,		2
149	Using the MEROPS Database for Proteolytic Enzymes and Their Inhibitors and Substrates. *Current Protocols in Bioinformatics*, **2014**, 48, 1.25.1-33	24.2	33
148	Introduction: The Clans and Families of Cysteine Peptidases **2013**, 1743-1773		11
147	Introduction: Metallopeptidases and Their Clans **2013**, 325-370		10
146	Animal Legumain **2013**, 2309-2314		
145	Thimet Oligopeptidase **2013**, 504-509		
144	Neurolysin **2013**, 509-513		
143	Introduction: Unsequenced Serine Peptidases **2013**, 3737		
142	MEROPS: the database of proteolytic enzymes, their substrates and inhibitors. *Nucleic Acids Research*, **2012**, 40, D343-50	20.1	686
141	Asparagine peptide lyases: a seventh catalytic type of proteolytic enzymes. *Journal of Biological Chemistry*, **2011**, 286, 38321-38328	5.4	65
140	MEROPS: the peptidase database. *Nucleic Acids Research*, **2010**, 38, D227-33	20.1	670
139	MEROPS: the peptidase database. *Nucleic Acids Research*, **2008**, 36, D320-5	20.1	453
138	SpeciesSof peptidases. *Biological Chemistry*, **2007**, 388, 1151-7	4.5	31
137	An Introduction to Peptidases and the Merops Database **2007**, 161-179		6

136	MEROPS: the peptidase database. *Nucleic Acids Research*, **2006**, 34, D270-2	20.1	455
135	Introduction: metallopeptidases and their clans **2004**, 231-267		24
134	MEROPS: the peptidase database. *Nucleic Acids Research*, **2004**, 32, D160-4	20.1	325
133	Evolutionary families of peptidase inhibitors. *Biochemical Journal*, **2004**, 378, 705-16	3.8	459
132	Neurolysin **2004**, 356-359		
131	Thimet oligopeptidase **2004**, 352-356		6
130	Managing peptidases in the genomic era. *Biological Chemistry*, **2003**, 384, 873-82	4.5	33
129	A comparison of Pfam and MEROPS: two databases, one comprehensive, and one specialised. *BMC Bioinformatics*, **2003**, 4, 17	3.6	6
128	Aza-peptide epoxides: potent and selective inhibitors of Schistosoma mansoni and pig kidney legumains (asparaginyl endopeptidases). *Biological Chemistry*, **2003**, 384, 1613-8	4.5	23
127	Pyroglutamyl-peptidase I: cloning, sequencing, and characterisation of the recombinant human enzyme. *Protein Expression and Purification*, **2003**, 28, 111-9	2	22
126	Inhibition of mammalian legumain by Michael acceptors and AzaAsn-halomethylketones. *Biological Chemistry*, **2002**, 383, 1205-14	4.5	27
125	MEROPS: the protease database. *Nucleic Acids Research*, **2002**, 30, 343-6	20.1	160
124	Aza-peptide epoxides: a new class of inhibitors selective for clan CD cysteine proteases. *Journal of Medicinal Chemistry*, **2002**, 45, 4958-60	8.3	53
123	Inhibition of distant caspase homologues by natural caspase inhibitors. *Biochemical Journal*, **2001**, 357, 575-80	3.8	16
122	Inhibition of distant caspase homologues by natural caspase inhibitors. *Biochemical Journal*, **2001**, 357, 575-580	3.8	28
121	Activation of Progelatinase A by Mammalian Legumain, a Recently Discovered Cysteine Proteinase. *Biological Chemistry*, **2001**, 382,	4.5	59
120	Evolutionary Lines of Cysteine Peptidases. *Biological Chemistry*, **2001**, 382,	4.5	149
119	Evolutionary lines of cysteine peptidases. *Biological Chemistry*, **2001**, 382, 727-33	4.5	145

118	Proteases. *Current Protocols in Protein Science*, **2001**, Chapter 21, Unit 21.1	3.1	6
117	Legumain forms from plants and animals differ in their specificity. *Biological Chemistry*, **2001**, 382, 953-9	4.5	35
116	The MEROPS database as a protease information system. *Journal of Structural Biology*, **2001**, 134, 95-102	3.4	106
115	Proteases **2001**,		1
114	Activation of progelatinase A by mammalian legumain, a recently discovered cysteine proteinase. *Biological Chemistry*, **2001**, 382, 777-83	4.5	49
113	Activation of human prolegumain by cleavage at a C-terminal asparagine residue. *Biochemical Journal*, **2000**, 352, 327	3.8	26
112	MEROPS: the peptidase database. *Nucleic Acids Research*, **2000**, 28, 323-5	20.1	97
111	Peptidases: a view of classification and nomenclature **1999**, 1-12		3
110	Tripeptidyl-peptidase I is apparently the CLN2 protein absent in classical late-infantile neuronal ceroid lipofuscinosis. *BBA - Proteins and Proteomics*, **1999**, 1429, 496-500		74
109	Colorimetric and fluorimetric microplate assays for legumain and a staining reaction for detection of the enzyme after electrophoresis. *Analytical Biochemistry*, **1999**, 273, 278-83	3.1	30
108	MEROPS: the peptidase database. *Nucleic Acids Research*, **1999**, 27, 325-31	20.1	187
107	Inhibition of mammalian legumain by some cystatins is due to a novel second reactive site. *Journal of Biological Chemistry*, **1999**, 274, 19195-203	5.4	210
106	Pig kidney legumain: an asparaginyl endopeptidase with restricted specificity. *Biochemical Journal*, **1999**, 339, 743-749	3.8	61
105	Pig kidney legumain: an asparaginyl endopeptidase with restricted specificity. *Biochemical Journal*, **1999**, 339, 743	3.8	27
104	An asparaginyl endopeptidase processes a microbial antigen for class II MHC presentation. *Nature*, **1998**, 396, 695-9	50.4	299
103	Thimet oligopeptidase: site-directed mutagenesis disproves previous assumptions about the nature of the catalytic site. *FEBS Letters*, **1998**, 435, 16-20	3.8	5
102	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, 361-5	3.8	169
101	Cloning and expression of mouse legumain, a lysosomal endopeptidase. *Biochemical Journal*, **1998**, 335 (Pt 1), 111-7	3.8	107

100	Cloning, isolation, and characterization of mammalian legumain, an asparaginyl endopeptidase. *Journal of Biological Chemistry*, **1997**, 272, 8090-8	5.4	265
99	Structure of membrane glutamate carboxypeptidase. *BBA - Proteins and Proteomics*, **1997**, 1339, 247-52		64
98	Families and clans of cysteine peptidases. *Journal of Computer - Aided Molecular Design*, **1996**, 6, 1-11		35
97	Dipeptidyl-peptidase II is related to lysosomal Pro-X carboxypeptidase. *BBA - Proteins and Proteomics*, **1996**, 1298, 1-3		16
96	Characterization of a mitochondrial metallopeptidase reveals neurolysin as a homologue of thimet oligopeptidase. *Journal of Biological Chemistry*, **1995**, 270, 2092-8	5.4	56
95	Families of aspartic peptidases, and those of unknown catalytic mechanism. *Methods in Enzymology*, **1995**, 248, 105-20	1.7	114
94	Thimet oligopeptidase and oligopeptidase M or neurolysin. *Methods in Enzymology*, **1995**, 248, 529-56	1.7	85
93	Families and clans of serine peptidases. *Archives of Biochemistry and Biophysics*, **1995**, 318, 247-50	4.1	152
92	Immunolocalization of thimet oligopeptidase in chicken embryonic fibroblasts. *Experimental Cell Research*, **1995**, 216, 80-5	4.2	10
91	Evolutionary families of metallopeptidases. *Methods in Enzymology*, **1995**, 248, 183-228	1.7	601
90	Immunoglobulin E antibodies to papaya proteinases and their relevance to chemonucleolysis. *Spine*, **1995**, 20, 981-5	3.3	7
89	Pitrilysin. *Methods in Enzymology*, **1995**, 248, 684-92	1.7	10
88	Nomenclature Committee of the International Union of Biochemistry and Molecular Biology (NC-IUBMB). Enzyme nomenclature. Recommendations 1992. Supplement 2: corrections and additions (1994). *FEBS Journal*, **1995**, 232, 1-6		16
87	The possible role of neutrophil proteinases in damage to articular cartilage. 1978. *Agents and Actions*, **1994**, 43, 194-200; discussion 200-1		9
86	Families of cysteine peptidases. *Methods in Enzymology*, **1994**, 244, 461-86	1.7	261
85	Families of serine peptidases. *Methods in Enzymology*, **1994**, 244, 19-61	1.7	423
84	Classification of peptidases. *Methods in Enzymology*, **1994**, 244, 1-15	1.7	169
83	The two cysteine endopeptidases of legume seeds: purification and characterization by use of specific fluorometric assays. *Archives of Biochemistry and Biophysics*, **1993**, 303, 208-13	4.1	158

82	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, 1709-17		119
81	Oligopeptidases, and the emergence of the prolyl oligopeptidase family. *Biological Chemistry Hoppe-Seyler*, **1992**, 373, 353-60		74
80	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, 147-54	4	70
79	CA074 methyl ester: a proinhibitor for intracellular cathepsin B. *Archives of Biochemistry and Biophysics*, **1992**, 299, 377-80	4.1	176
78	Quantification of peptide aldehyde ligands immobilized for the affinity chromatography of endopeptidases. *Analytical Biochemistry*, **1992**, 204, 328-31	3.1	1
77	Types and families of endopeptidases. *Biochemical Society Transactions*, **1991**, 19, 707-15	5.1	28
76	Potential metal ligands in the insulinase superfamily of endopeptidases. *Biochemical Society Transactions*, **1991**, 19, 289S	5.1	4
75	N-[1(RS)-carboxy-3-phenylpropyl]peptides as inhibitors of thimet oligopeptidase. *Biochemical Society Transactions*, **1991**, 19, 290S	5.1	1
74	Clostripain: characterization of the active site. *FEBS Letters*, **1991**, 283, 277-80	3.8	25
73	Structure/function relationships in the inhibition of thimet oligopeptidase by carboxyphenylpropyl-peptides. *FEBS Letters*, **1991**, 294, 183-6	3.8	13
72	An alternative quenched fluorescence substrate for Pz-peptidase. *Analytical Biochemistry*, **1990**, 186, 112-5	3.1	50
71	Evolution of proteins of the cystatin superfamily. *Journal of Molecular Evolution*, **1990**, 30, 60-71	3.1	251
70	The preparation of fully active chymopapain free of contaminating proteinases. *Biological Chemistry Hoppe-Seyler*, **1990**, 371, 1083-8		26
69	FLUSYS: a software package for the collection and analysis of kinetic and scanning data from Perkin-Elmer fluorimeters. *Bioinformatics*, **1990**, 6, 118-9	7.2	18
68	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, 187-94	3.8	31
67	Selective cleavage of glycyl bonds by papaya proteinase IV. *FEBS Letters*, **1990**, 260, 195-7	3.8	40
66	Interactions of papaya proteinase IV with inhibitors. *FEBS Letters*, **1990**, 262, 58-60	3.8	37
65	The amino acid sequence of a novel inhibitor of cathepsin D from potato. *FEBS Letters*, **1990**, 267, 13-5	3.8	54

64	A distinct thimet peptidase from rat liver mitochondria. *FEBS Letters*, **1990**, 264, 84-6	3.8	16
63	Inhibition of cysteine proteinases by a protein inhibitor from potato. *FEBS Letters*, **1990**, 269, 328-30	3.8	30
62	Activity of Pz-peptidase and endo-oligopeptidase are due to the same enzyme. *Biochemical and Biophysical Research Communications*, **1989**, 162, 1460-4	3.4	21
61	Purification and characterization of Pz-peptidase from rabbit muscle. *Archives of Biochemistry and Biophysics*, **1989**, 274, 138-44	4.1	21
60	Stem bromelain: amino acid sequence and implications for weak binding of cystatin. *FEBS Letters*, **1989**, 247, 419-24	3.8	108
59	Papaya proteinase IV amino acid sequence. *FEBS Letters*, **1989**, 258, 109-12	3.8	37
58	Ananain: a novel cysteine proteinase found in pineapple stem. *Archives of Biochemistry and Biophysics*, **1988**, 267, 262-70	4.1	51
57	Human kininogens. *Methods in Enzymology*, **1988**, 163, 240-56	1.7	36
56	Quantitative assessment of human proteinases as agents for chemonucleolysis. *Spine*, **1988**, 13, 188-92	3.3	13
55	Phosphorylation, glycosylation, and proteolytic activity of the 52-kD estrogen-induced protein secreted by MCF7 cells. *Journal of Cell Biology*, **1987**, 104, 253-62	7.3	134
54	Rapid isolation of human kininogens. *Thrombosis Research*, **1987**, 48, 187-93	8.2	34
53	The role of aspartic and cysteine proteinases in albumin degradation by rat kidney cortical lysosomes. *Archives of Biochemistry and Biophysics*, **1987**, 256, 687-91	4.1	28
52	The cystatins: a new class of peptidase inhibitors. *Trends in Biochemical Sciences*, **1987**, 12, 193-196	10.3	240
51	Plasma from rheumatoid arthritis patients does not contain abnormally high levels of alpha 2-macroglobulin-proteinase complexes. *Arthritis and Rheumatism*, **1987**, 30, 872-7		3
50	The biochemistry of the action of chymopapain in relief of sciatica. *Spine*, **1986**, 11, 688-94	3.3	15
49	The proteolytic activities of chymopapain, papain, and papaya proteinase III. *BBA - Proteins and Proteomics*, **1985**, 828, 196-204		88
48	Distribution of cystatin C (gamma-trace), an inhibitor of lysosomal cysteine proteinases, in the anterior lobe of simian and human pituitary glands. *Neuroendocrinology*, **1985**, 41, 400-4	5.6	21
47	Amino acid sequence of the intracellular cysteine proteinase inhibitor cystatin B from human liver. *Biochemical and Biophysical Research Communications*, **1985**, 131, 1187-92	3.4	99

46	Effect of X-ray contrast media on the action of chymopapain on the intervertebral disc: an in vitro study of cartilage degradation. *British Journal of Radiology*, **1984**, 57, 475-7	3.4	7
45	Tosyl-lysyl chloromethane alters glucocorticoid-receptor complex nuclear binding and physical properties. *Endocrinology*, **1984**, 115, 65-72	4.8	16
44	Immunolocalization of human cystatins in neutrophils and lymphocytes. *Histochemistry*, **1984**, 80, 373-7		42
43	The disulphide bridges of human cystatin C (□trace) and chicken cystatin. *FEBS Letters*, **1984**, 170, 370-374	3.8	45
42	The place of human gamma-trace (cystatin C) amongst the cysteine proteinase inhibitors. *Biochemical and Biophysical Research Communications*, **1984**, 120, 631-6	3.4	263
41	Influence of proteinase inhibitors on glucocorticoid receptor binding. *Biochimica Et Biophysica Acta - General Subjects*, **1984**, 798, 187-91	4	2
40	Proteolytic and other metabolic pathways in lysosomes. *Biochemical Society Transactions*, **1984**, 12, 899-902	3.1	26
39	The characterization of calpains and calpain inhibitors from chicken gizzard smooth muscle. *Biochemical Society Transactions*, **1984**, 12, 1106-1107	5.1	11
38	Plasma arginine esterase in cystic fibrosis: kinetics of activation, identification as plasma kallikrein, reaction with alpha 2-macroglobulin and comparison with levels in normal plasma. *Pediatric Research*, **1982**, 16, 613-20	3.2	5
37	Evolution of alpha 2-macroglobulin. The structure of a protein homologous with human alpha 2-macroglobulin from plaice (Pleuronectes platessa L.) plasma. *Biochemical Journal*, **1982**, 205, 105-15	3.8	45
36	Evidence that extracellular cathepsin D is not responsible for the resorption of cartilage matrix in culture. *Biochimica Et Biophysica Acta - General Subjects*, **1982**, 714, 307-12	4	30
35	A direct spectrophotometric microassay for sulfated glycosaminoglycans in cartilage cultures. *Connective Tissue Research*, **1982**, 9, 247-8	3.3	1153
34	Identification of plasma kallikrein as an activator of latent collagenase in rheumatoid synovial fluid. *BBA - Proteins and Proteomics*, **1982**, 702, 133-42		61
33	[57] Cystatin, the egg white inhibitor of cysteine proteinases. *Methods in Enzymology*, **1981**, 771-778	1.7	93
32	Cathepsin B, Cathepsin H, and cathepsin L. *Methods in Enzymology*, **1981**, 80 Pt C, 535-61	1.7	1372
31	Leukocyte elastase. *Methods in Enzymology*, **1981**, 80 Pt C, 581-8	1.7	110
30	Cathepsin G. *Methods in Enzymology*, **1981**, 80 Pt C, 561-5	1.7	95
29	Alpha 2-macroglobulin. *Methods in Enzymology*, **1981**, 80 Pt C, 737-54	1.7	238

28	Which proteinases degrade cartilage matrix ?. *Seminars in Arthritis and Rheumatism*, **1981**, 11, 52-56	5.3	8
27	A rapid and reproducible assay for collagenase using [1-14C]acetylated collagen. *Analytical Biochemistry*, **1979**, 99, 340-5	3.1	337
26	Cathepsin D: the lysosomal aspartic proteinase. *Novartis Foundation Symposium*, **1979**, 37-50		11
25	The possible role of neutrophil proteinases in damage to articular cartilage. *Agents and Actions*, **1978**, 8, 11-8		148
24	Preparation of antibody fragments: conditions for proteolysis compared by SDS slab-gel electrophoresis and quantitation of antibody yield. *Journal of Immunological Methods*, **1978**, 21, 305-15	2.5	18
23	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, 233-40		99
22	The degradation of articular collagen by neutrophil proteinases. *Biochimica Et Biophysica Acta - Biomembranes*, **1977**, 483, 386-97	3.8	155
21	Human cathepsin D. *Advances in Experimental Medicine and Biology*, **1977**, 95, 291-300	3.6	28
20	An improved color reagent for use in Barrett's assay of Cathepsin B. *Analytical Biochemistry*, **1976**, 76, 374-6	3.1	89
19	Chicken alpha2-proteinase inhibitor: a serum protein homologous with ovoinhibitor of egg white. *Biochimica Et Biophysica Acta (BBA) - Protein Structure*, **1974**, 371, 52-62		27
18	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	3.8	30
17	Cathepsin B1. A lysosomal enzyme that degrades native collagen. *Biochemical Journal*, **1974**, 137, 387-98	3.8	343
16	The interaction of alpha2-macroglobulin with proteinases. Binding and inhibition of mammalian collagenases and other metal proteinases. *Biochemical Journal*, **1974**, 139, 359-68	3.8	184
15	Cathepsins BI and D. Action on human cartilage proteoglycans. *Biochimica Et Biophysica Acta - Biomembranes*, **1973**, 302, 411-9	3.8	97
14	Immunoinhibition of intracellular protein digestion in macrophages. *Journal of Experimental Medicine*, **1973**, 137, 1124-41	16.6	70
13	Human cathepsin B1. Purification and some properties of the enzyme. *Biochemical Journal*, **1973**, 131, 809-22	3.8	291
12	Inhibition by alpha-macroglobulin and other serum proteins. *Biochemical Journal*, **1973**, 131, 823-31	3.8	91
11	The interaction of alpha 2-macroglobulin with proteinases. Characteristics and specificity of the reaction, and a hypothesis concerning its molecular mechanism. *Biochemical Journal*, **1973**, 133, 709-24	3.8	899

10	The immunocytochemical demonstration of cathepsin D. *Journal of Histochemistry and Cytochemistry*, **1972**, 20, 261-5	3.4	41
9	A new assay for cathepsin B1 and other thiol proteinases. *Analytical Biochemistry*, **1972**, 47, 280-93	3.1	389
8	The biochemistry and function of mucosubstances. *The Histochemical Journal*, **1971**, 3, 213-21		22
7	Microassay for cathepsin D shows an unexpected effedt of cycloheximide on limb-bone rudiments in organ culture. *Experimental Cell Research*, **1970**, 61, 470-2	4.2	72
6	Unsuitability of leucine naphthylamide for the histochemical demonstration of lysosomal proteolytic activity. *Nature*, **1969**, 224, 279-80	50.4	22
5	Specific inhibition of cartilage breakdown. *Nature*, **1969**, 222, 285-6	50.4	49
4	Effect of cortisol on the synthesis of chondroitin sulphate by embryonic cartilage. *Nature*, **1966**, 211, 83-4	50.4	32
3	Chondromucoprotein-degrading enzymes. *Nature*, **1966**, 211, 1188-9	50.4	22
2	Peptidases2, 86-94		
1	Introduction: The Classification of Proteinases. *Novartis Foundation Symposium*,1-13		5