

Brian Walker

List of Publications by Year in descending order

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108
papers

2,962
citations

186265

28
h-index

182427

51
g-index

111
all docs

111
docs citations

111
times ranked

3732
citing authors

#	ARTICLE	IF	CITATIONS
1	Proteasome inhibitors in cancer therapy. <i>Journal of Cell Communication and Signaling</i> , 2011, 5, 101-110.	3.4	257
2	Neutrophil Elastase Activity Is Associated with Exacerbations and Lung Function Decline in Bronchiectasis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 195, 1384-1393.	5.6	232
3	The membrane-anchored serine protease, TMPRSS2, activates PAR-2 in prostate cancer cells. <i>Biochemical Journal</i> , 2005, 388, 967-972.	3.7	157
4	Comparative Selectivity and Specificity of the Proteasome Inhibitors BzLLCOCHO, PS-341, and MG-132. <i>Cancer Research</i> , 2006, 66, 6379-6386.	0.9	129
5	Protease-Activated Receptor-2 Involvement in Hypotension in Normal and Endotoxemic Rats In Vivo. <i>Circulation</i> , 1999, 99, 2590-2597.	1.6	104
6	Antibody-Mediated Inhibition of Cathepsin S Blocks Colorectal Tumor Invasion and Angiogenesis. <i>Clinical Cancer Research</i> , 2009, 15, 6042-6051.	7.0	95
7	The Clinical Significance of Cathepsin S Expression in Human Astrocytomas. <i>American Journal of Pathology</i> , 2003, 163, 175-182.	3.8	94
8	Mucosal Allergic Sensitization to Cockroach Allergens Is Dependent on Proteinase Activity and Proteinase-Activated Receptor-2 Activation. <i>Journal of Immunology</i> , 2011, 186, 3164-3172.	0.8	87
9	Novel Inhibitors of the <i>Pseudomonas aeruginosa</i> Virulence Factor LasB: a Potential Therapeutic Approach for the Attenuation of Virulence Mechanisms in Pseudomonal Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 2670-2678.	3.2	85
10	Cathepsin S from both tumor and tumor-associated cells promote cancer growth and neovascularization. <i>International Journal of Cancer</i> , 2013, 133, 2102-2112.	5.1	80
11	Cathepsin S expression: An independent prognostic factor in glioblastoma tumours—a pilot study. <i>International Journal of Cancer</i> , 2006, 119, 854-860.	5.1	78
12	Irreversible inhibition of the bacterial cysteine protease-transpeptidase sortase (SrtA) by substrate-derived affinity labels. <i>Biochemical Journal</i> , 2002, 366, 953-958.	3.7	75
13	Antimicrobial/cytolytic peptides from the venom of the North African scorpion, <i>Androctonus amoreuxi</i> : Biochemical and functional characterization of natural peptides and a single site-substituted analog. <i>Peptides</i> , 2012, 35, 291-299.	2.4	71
14	Inhibitors of the chymotrypsin-like activity of proteasome based on di- and tri-peptidyl α -keto aldehydes (glyoxals). <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998, 8, 373-378.	2.2	69
15	A highly convenient route to optically pure α -aminophosphonic acids. <i>Tetrahedron Letters</i> , 1995, 36, 4451-4454.	1.4	65
16	Identification of potential activators of proteinase-activated receptor-21. <i>FEBS Letters</i> , 1997, 417, 267-269.	2.8	58
17	Elements of the granular gland peptidome and transcriptome persist in air-dried skin of the South American orange-legged leaf frog, <i>Phyllomedusa hypocondrialis</i> . <i>Peptides</i> , 2006, 27, 2129-2136.	2.4	53
18	Inhibition of Protease-Activated Receptor-2 Epithelial Sodium Channel Signaling Improves Mucociliary Function in Cystic Fibrosis Airways. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 194, 701-710.	5.6	51

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19	The Chinese bamboo leaf odorous frog (<i>Rana (Odorrana) versabilis</i>) and North American <i>Rana</i> frogs share the same families of skin antimicrobial peptides. <i>Peptides</i> , 2006, 27, 1738-1744.	2.4	47
20	Proteasome-mediated effects on amyloid precursor protein processing at the β -secretase site. <i>Biochemical Journal</i> , 2005, 385, 545-550.	3.7	46
21	HV-BBI" A novel amphibian skin Bowman" Birk-like trypsin inhibitor. <i>Biochemical and Biophysical Research Communications</i> , 2008, 372, 191-196.	2.1	45
22	A convenient synthesis of N-protected diphenyl phosphonate ester analogues of ornithine, lysine and homolysine.. <i>Tetrahedron Letters</i> , 1993, 34, 2847-2850.	1.4	44
23	Evaluation of Dipeptide β -keto- β -aldehydes as New Inhibitors of Cathepsin S. <i>Biochemical and Biophysical Research Communications</i> , 2000, 275, 401-405.	2.1	37
24	Rapid identification of precursor cDNAs encoding five structural classes of antimicrobial peptides from pickered frog (<i>Rana palustris</i>) skin secretion by single step "shotgun" cloning. <i>Peptides</i> , 2007, 28, 1605-1610.	2.4	36
25	Amphibian skin peptides and their corresponding cDNAs from single lyophilized secretion samples: Identification of novel brevinins from three species of Chinese frogs. <i>Peptides</i> , 2006, 27, 42-48.	2.4	32
26	Lividins: Novel antimicrobial peptide homologs from the skin secretion of the Chinese Large Odorous frog, <i>Rana (Odorrana) livida</i> . <i>Peptides</i> , 2006, 27, 2118-2123.	2.4	32
27	Dipeptide proline diphenyl phosphonates are potent, irreversible inhibitors of seprase (FAP β). <i>Biochemical and Biophysical Research Communications</i> , 2006, 346, 436-446.	2.1	31
28	From sentencing to execution " the processes of apoptosis. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 62, 547-562.	2.4	31
29	Components of the peptidome and transcriptome persist in lin wa pi: The dried skin of the Heilongjiang brown frog (<i>Rana amurensis</i>) as used in traditional Chinese medicine. <i>Peptides</i> , 2006, 27, 2688-2694.	2.4	30
30	Molecular cloning of a novel putative potassium channel-blocking neurotoxin from the venom of the North African scorpion, <i>Androctonus amoreuxi</i> . <i>Peptides</i> , 2005, 26, 731-736.	2.4	27
31	Inhibitor profiling of the <i>Pseudomonas aeruginosa</i> virulence factor LasB using N-alpha mercaptoamide template-based inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 6230-6232.	2.2	27
32	Recombinant cathepsin S propeptide attenuates cell invasion by inhibition of cathepsin L"like proteases in tumor microenvironment. <i>Molecular Cancer Therapeutics</i> , 2008, 7, 538-547.	4.1	26
33	Development of peptidyl β -keto- β -aldehydes as new inhibitors of cathepsin L " comparisons of potency and selectivity profiles with cathepsin B. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 1771-1773.	2.2	24
34	Proteases implicated in apoptosis: old and new. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 62, 563-576.	2.4	24
35	Skin bradykinin-related peptides (BRPs) and their biosynthetic precursors (kininogens): Comparisons between various taxa of Chinese and North American ranid frogs. <i>Peptides</i> , 2008, 29, 393-403.	2.4	23
36	Identification and molecular cloning of a novel amphibian Bowman Birk-type trypsin inhibitor from the skin of the Hejiang Odorous Frog; <i>Odorrana hejiangensis</i> . <i>Peptides</i> , 2012, 33, 245-250.	2.4	23

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37	Utilization of biotinylated diphenyl phosphonates for disclosure of serine proteases. <i>Analytical Biochemistry</i> , 2004, 326, 273-275.	2.4	21
38	Dermatoxin and phylloxin from the waxy monkey frog, <i>Phyllomedusa sauvagei</i> : Cloning of precursor cDNAs and structural characterization from lyophilized skin secretion. <i>Regulatory Peptides</i> , 2005, 129, 103-108.	1.9	20
39	Synthesis, kinetic evaluation, and utilization of a biotinylated dipeptide proline diphenyl phosphonate for the disclosure of dipeptidyl peptidase IV-like serine proteases. <i>Biochemical and Biophysical Research Communications</i> , 2006, 347, 373-379.	2.1	20
40	Synthesis and proteinase inhibitory properties of diphenyl phosphonate analogues of aspartic and glutamic acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998, 8, 1655-1660.	2.2	19
41	Cloning from tissue surrogates: Antimicrobial peptide (esculentin) cDNAs from the defensive skin secretions of Chinese ranid frogs. <i>Genomics</i> , 2006, 87, 638-644.	2.9	19
42	Amolopkinins W1 and W2—Novel bradykinin-related peptides (BRPs) from the skin of the Chinese torrent frog, <i>Amolops wuyiensis</i> : Antagonists of bradykinin-induced smooth muscle contraction of the rat ileum. <i>Peptides</i> , 2009, 30, 893-900.	2.4	18
43	Inhibition of <i>Escherichia coli</i> glucosamine synthetase by novel electrophilic analogues of glutamine—comparison with 6-diazo-5-oxo-norleucine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 2795-2798.	2.2	17
44	Asymmetric Preference of Serine Proteases toward Phosphonate and Phosphinate Esters. <i>Biochemical and Biophysical Research Communications</i> , 2000, 276, 1235-1239.	2.1	16
45	Proteasome proteolytic profile is linked to Bcr-Abl expression. <i>Experimental Hematology</i> , 2009, 37, 357-366.	0.4	16
46	Kassinakinin S: A novel histamine-releasing heptadecapeptide from frog (<i>Kassina senegalensis</i>) skin secretion. <i>Biochemical and Biophysical Research Communications</i> , 2005, 337, 474-480.	2.1	15
47	Pelophylaxins: Novel antimicrobial peptide homologs from the skin secretion of the Fukien gold-striped pond frog, <i>Pelophylax plancyi fukienensis</i> . <i>Peptides</i> , 2006, 27, 36-41.	2.4	15
48	The therapeutic potential of the proteasome in leukaemia. <i>Hematological Oncology</i> , 2008, 26, 73-81.	1.7	15
49	Novel dermaseptin, adenoregulin and caerin homologs from the Central American red-eyed leaf frog, <i>Agalychnis callidryas</i> , revealed by functional peptidomics of defensive skin secretion. <i>Biochimie</i> , 2008, 90, 1435-1441.	2.6	15
50	The complex array of bradykinin-related peptides (BRPs) in the peptidome of pickerel frog (<i>Rana</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 2	2.4	14
51	A structural and functional analogue of a Bowman—Birk-type protease inhibitor from <i>Odorrana schmackeri</i> . <i>Bioscience Reports</i> , 2017, 37, .	2.4	14
52	The preparation of a C-terminal gastrin peptide containing a synthetic B-bend mimetic. <i>Biochemical Society Transactions</i> , 1988, 16, 175-176.	3.4	13
53	Partial structure of the phylloxin gene from the giant monkey frog, <i>Phyllomedusa bicolor</i> : Parallel cloning of precursor cDNA and genomic DNA from lyophilized skin secretion. <i>Peptides</i> , 2005, 26, 2624-2628.	2.4	12
54	Novel brevinins from Chinese piebald odorous frog (<i>Huia schmackeri</i>) skin deduced from cloned biosynthetic precursors. <i>Peptides</i> , 2008, 29, 1456-1460.	2.4	12

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55	Expedited Solid-Phase Synthesis of Fluorescently Labeled and Biotinylated Aminoalkane Diphenyl Phosphonate Affinity Probes for Chymotrypsin- and Elastase-Like Serine Proteases. <i>Bioconjugate Chemistry</i> , 2009, 20, 2098-2105.	3.6	12
56	Synthesis of diphenyl phosphonate analogues of tyrosine and tryptophan and derived peptides as chymotrypsin inhibitors. <i>Chemical Communications</i> , 1996, , 1155.	4.1	11
57	Sauvatide – A novel amidated myotropic decapeptide from the skin secretion of the waxy monkey frog, <i>Phyllomedusa sauvagei</i> . <i>Biochemical and Biophysical Research Communications</i> , 2009, 383, 240-244.	2.1	11
58	A Bowman-Birk type chymotrypsin inhibitor peptide from the amphibian, <i>Hylarana erythraea</i> . <i>Scientific Reports</i> , 2018, 8, 5851.	3.3	11
59	The behaviour of urokinase and porcine kidney cell plasminogen activator towards some synthetic peptides. <i>Thrombosis Research</i> , 1984, 34, 103-107.	1.7	10
60	A convenient synthesis of phosphonate isosteres of serine phosphates. <i>Tetrahedron Letters</i> , 1994, 35, 3597-3600.	1.4	10
61	Novel C-terminal gastrin antagonists Synthesis and biological activity. <i>International Journal of Peptide and Protein Research</i> , 1990, 35, 301-305.	0.1	10
62	A Selective Irreversible Inhibitor of Furin Does Not Prevent <i>Pseudomonas Aeruginosa</i> Exotoxin A-Induced Airway Epithelial Cytotoxicity. <i>PLoS ONE</i> , 2016, 11, e0159868.	2.5	10
63	Mitogenic activity of GRP18 α 27 analogues on the ZR-75-1 human breast cancer cell line. <i>Biochemical Society Transactions</i> , 1990, 18, 354-354.	3.4	9
64	<i>Kassina senegalensis</i> skin tachykinins: Molecular cloning of kassinin and (Thr ² ,Ala ⁹)-kassinin biosynthetic precursor cDNAs and comparative bioactivity of mature tachykinins on the smooth muscle of rat urinary bladder. <i>Biochimie</i> , 2009, 91, 613-619.	2.6	9
65	Peptidyl inverse esters of p-methoxybenzoic acid: a novel class of potent inactivator of the serine proteases. <i>Biochemical Journal</i> , 1997, 325, 609-616.	3.7	8
66	Synthesis of ketomethylene amino pseudopeptide analogues via reductive amination of glyoxals derived from α -amino acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 153-155.	2.2	8
67	Activity-based selection of a proteolytic species using ribosome display. <i>Biochemical and Biophysical Research Communications</i> , 2008, 370, 77-81.	2.1	8
68	A family of kassinatuerin-2 related peptides from the skin secretion of the African hyperoliid frog, <i>Kassina maculata</i> . <i>Peptides</i> , 2009, 30, 1428-1433.	2.4	8
69	The synthesis of some peptides related to the amyloid β peptide 25 ³⁵ : Use of N-(2-hydroxy-4-methoxybenzyl) protection. <i>International Journal of Peptide Research and Therapeutics</i> , 1994, 1, 135-141.	0.1	7
70	Synthesis and kinetic evaluation of peptide α -keto- β -aldehyde-based inhibitors of trypsin-like serine proteases. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 53, 473-480.	2.4	7
71	Comparison of the binding specificity of two bacterial metalloproteases, LasB of <i>Pseudomonas aeruginosa</i> and ZapA of <i>Proteus mirabilis</i> , using N-alpha mercaptoamide template-based inhibitor analogues. <i>Biochemical and Biophysical Research Communications</i> , 2012, 422, 316-320.	2.1	7
72	Effects of some neurokinin A analogues on tachykinin-induced contraction of guinea pig trachea. <i>Peptides</i> , 1991, 12, 1069-1075.	2.4	6

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73	Partial Characterization of a Novel Cathepsin L-like Protease from <i>Fasciola hepatica</i> . <i>Biochemical and Biophysical Research Communications</i> , 2000, 277, 79-82.	2.1	6
74	The Proteasome: A Novel Therapeutic Target in Haematopoietic Malignancy. <i>Hematology</i> , 2003, 8, 275-283.	1.5	6
75	A study of the anti-invasive properties of N- β -phthalimidomethyl-ketomethylene tripeptide-based metalloprotease inhibitors. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 53, 333-343.	2.4	6
76	Comprehensive inhibitor profiling of the <i>Proteus mirabilis</i> metalloprotease virulence factor ZapA (mirabilysin). <i>Biochimie</i> , 2011, 93, 1824-1827.	2.6	6
77	The Synthesis and Utilization of 2,4-Dinitrophenyl-Labeled Irreversible Peptidyl Diazomethyl Ketone Inhibitors. <i>Analytical Biochemistry</i> , 1998, 261, 131-138.	2.4	5
78	Synthesis of a cyclic analogue of the C-loop region of epidermal growth factor, containing 1-aminocyclopropane-1-carboxylic acid. <i>International Journal of Peptide and Protein Research</i> , 1994, 43, 225-229.	0.1	5
79	Novel Inhibitors and Activity-Based Probes Targeting Trypsin-Like Serine Proteases. <i>Frontiers in Chemistry</i> , 2022, 10, 782608.	3.6	5
80	Biological testing of some synthetic analogues of the salivary peptide, sialin. <i>Biochemical Society Transactions</i> , 1990, 18, 337-338.	3.4	4
81	Carboxyfluorescein and biotin neuromedin C analogues: Synthesis and applications. <i>Peptides</i> , 1995, 16, 255-261.	2.4	4
82	The Synthesis of Phosphinic Acid Based Proteinase Inhibitors. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1999, 144, 761-764.	1.6	4
83	Potent new leucine aminopeptidase inhibitor of novel structure synthesised by a modified Wadsworth-Emmons (Horner) Wittig procedure. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 1481-1482.	2.2	4
84	Visualisation of the gastrin receptor within rat mucosa using a biotinylated gastrin antagonist. <i>International Journal of Peptide and Protein Research</i> , 1990, 35, 306-309.	0.1	4
85	Inhibition of bovine cathepsin B by amino acid-derived nitriles. <i>Biochemical Society Transactions</i> , 1990, 18, 316-316.	3.4	3
86	Synthesis, monitoring and structure-function studies on some neurokinin A analogues. <i>Biochemical Society Transactions</i> , 1990, 18, 1323-1325.	3.4	3
87	The detection of serine elastase in human breast cancer. <i>Biochemical Society Transactions</i> , 1994, 22, 20S-20S.	3.4	3
88	A High-Throughput Microtiter Plate-Based Calcium Assay for the Study of Protease-Activated Receptor 2 Activation. <i>Analytical Biochemistry</i> , 2001, 290, 378-379.	2.4	3
89	Synthesis and activity of a novel, irreversible inhibitor of cathepsin B. <i>Biochemical Society Transactions</i> , 1990, 18, 315-316.	3.4	2
90	Design and Enantioselective Synthesis of Phosphonates as Enzyme Inhibitors. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1996, 111, 90-90.	1.6	2

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91	The Synthesis of Diphenyl Phosphonate Analogues of α -Amino Acids as Enzyme Inhibitors. Phosphorus, Sulfur and Silicon and the Related Elements, 1999, 147, 297-297.	1.6	2
92	Putative irreversible inhibitors of trypsin-like enzymes: analogues of basic amino acids bearing a carbodi-imide moiety. Biochemical Society Transactions, 1987, 15, 513-514.	3.4	1
93	Kinetic studies of the inhibition of thrombin by synthetic peptide fragments of hirudin. Biochemical Society Transactions, 1989, 17, 692-693.	3.4	1
94	Design and synthesis of putative inhibitors of glucosamine synthetase. Biochemical Society Transactions, 1990, 18, 317-318.	3.4	1
95	¹ H-nuclear magnetic resonance conformational studies on synthetic analogues of gastrin-releasing peptide. Biochemical Society Transactions, 1990, 18, 341-342.	3.4	1
96	B-Loop analogues of human Epidermal Growth Factor. Biochemical Society Transactions, 1994, 22, 21S-21S.	3.4	1
97	The inhibitor profiling of the caspase family of proteases using substrate-derived peptide glyoxals. Biochemical and Biophysical Research Communications, 2010, 402, 483-488.	2.1	1
98	A modified Tat peptide for selective intracellular delivery of macromolecules. Journal of Pharmacy and Pharmacology, 2011, 63, 611-618.	2.4	1
99	Peptidase activity in mammalian cerebral cortex. Biochemical Society Transactions, 1988, 16, 405-406.	3.4	0
100	Facile solubilization of tumour-associated cathepsin B by acid treatment. Biochemical Society Transactions, 1990, 18, 317-317.	3.4	0
101	Action of some analogues of neurokinin A on the growth of skin and synovial fibroblasts in vitro. Biochemical Society Transactions, 1990, 18, 352-352.	3.4	0
102	Neurokinin A analogue binding to NK-2 receptors from guinea-pig brain. Biochemical Society Transactions, 1991, 19, 13S-13S.	3.4	0
103	Receptor binding and contractile activity of some synthetic neurotensin fragments on isolated guinea-pig <i>Taenia coli</i> . Biochemical Society Transactions, 1991, 19, 31S-31S.	3.4	0
104	Neurokinin A analogues binding to isolated membranes from guinea-pig brain. Biochemical Society Transactions, 1992, 20, 867-869.	3.4	0
105	55 Pitfalls of using organic solvents in biological Systems. Biochemical Society Transactions, 1998, 26, S45-S45.	3.4	0
106	56 Cytokine processing by transformed and non-transformed cell types. Biochemical Society Transactions, 1998, 26, S46-S46.	3.4	0
107	57 Isolation of single-chain variable fragment (scFv) antibodies against synthetic peptide fragments of human cathepsin S. Biochemical Society Transactions, 1998, 26, S47-S47.	3.4	0
108	18 Generation of a phage display library to determine specificity of proteases. Biochemical Society Transactions, 1998, 26, S7-S7.	3.4	0