Brian Walker

List of Publications by Year
in descending order

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	Novel Inhibitors and Activity-Based Probes Targeting Trypsin-Like Serine Proteases. Frontiers in Chemistry, 2022, 10, 782608.	3.6	5
2	A Bowman-Birk type chymotrypsin inhibitor peptide from the amphibian, Hylarana erythraea. Scientific Reports, 2018, 8, 5851.	3.3	11
3	A structural and functional analogue of a Bowmanâ€“Birk-type protease inhibitor from Odorrana schmackeri. Bioscience Reports, 2017, 37, .	2.4	14
4	Neutrophil Elastase Activity Is Associated with Exacerbations and Lung Function Decline in Bronchiectasis. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 1384-1393.	5.6	232
5	Inhibition of Proteaseâ€“Epithelial Sodium Channel Signaling Improves Mucociliary Function in Cystic Fibrosis Airways. American Journal of Respiratory and Critical Care Medicine, 2016, 194, 701-710.	5.6	51
6	A Selective Irreversible Inhibitor of Furin Does Not Prevent Pseudomonas Aeruginosa Exotoxin A-Induced Airway Epithelial Cytotoxicity. PLoS ONE, 2016, 11, e0159868.	2.5	10
7	Cathepsin S from both tumor and tumorâ€associated cells promote cancer growth and neovascularization. International Journal of Cancer, 2013, 133, 2102-2112.	5.1	80
8	Identification and molecular cloning of a novel amphibian Bowman Birk-type trypsin inhibitor from the skin of the Hejiang Odorous Frog; Odorrana hejiangensis. Peptides, 2012, 33, 245-250.	2.4	23
9	Antimicrobial/cytolytic peptides from the venom of the North African scorpion, Androctonus amoreuxi: Biochemical and functional characterization of natural peptides and a single site-substituted analog. Peptides, 2012, 35, 291-299.	2.4	71
10	Comparison of the binding specificity of two bacterial metalloproteases, LasB of Pseudomonas aeruginosa and ZapA of Proteus mirabilis, using N-alpha mercaptoamide template-based inhibitor analogues. Biochemical and Biophysical Research Communications, 2012, 422, 316-320.	2.1	7
11	Comprehensive inhibitor profiling of the Proteus mirabilis metalloprotease virulence factor ZapA (mirabilysin). Biochimie, 2011, 93, 1824-1827.	2.6	6
12	A modified Tat peptide for selective intracellular delivery of macromolecules. Journal of Pharmacy and Pharmacology, 2011, 63, 611-618.	2.4	1
13	Proteasome inhibitors in cancer therapy. Journal of Cell Communication and Signaling, 2011, 5, 101-110.	3.4	257
14	Mucosal Allergic Sensitization to Cockroach Allergens Is Dependent on Proteinase Activity and Proteinase-Activated Receptor-2 Activation. Journal of Immunology, 2011, 186, 3164-3172.	0.8	87
15	Novel Inhibitors of the Pseudomonas aeruginosa Virulence Factor LasB: a Potential Therapeutic Approach for the Attenuation of Virulence Mechanisms in Pseudomonal Infection. Antimicrobial Agents and Chemotherapy, 2011, 55, 2670-2678.	3.2	85
16	A study of the anti-invasive properties of N-Î±-phthalimidomethyl-ketomethylene tripeptide-based metalloprotease inhibitors. Journal of Pharmacy and Pharmacology, 2010, 53, 333-343.	2.4	6
17	Synthesis and kinetic evaluation of peptide Î±-keto-Î²-aldehyde-based inhibitors of trypsin-like serine proteases. Journal of Pharmacy and Pharmacology, 2010, 53, 473-480.	2.4	7
18	From sentencing to execution â€“ the processes of apoptosis. Journal of Pharmacy and Pharmacology, 2010, 62, 547-562.	2.4	31

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19	Proteases implicated in apoptosis: old and new. Journal of Pharmacy and Pharmacology, 2010, 62, 563-576.	2.4	24
20	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
21	Antibody-Mediated Inhibition of Cathepsin S Blocks Colorectal Tumor Invasion and Angiogenesis. Clinical Cancer Research, 2009, 15, 6042-6051.	7.0	95
22	Proteasome proteolytic profile is linked to Bcr-Abl expression. Experimental Hematology, 2009, 37, 357-366.	0.4	16
23	Inhibitor profiling of the Pseudomonas aeruginosa virulence factor LasB using N-alpha mercaptoamide template-based inhibitors. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6230-6232.	2.2	27
24	Expedited Solid-Phase Synthesis of Fluorescently Labeled and Biotinylated Aminoalkane Diphenyl Phosphonate Affinity Probes for Chymotrypsin- and Elastase-Like Serine Proteases. Bioconjugate Chemistry, 2009, 20, 2098-2105.	3.6	12
25	Kassina senegalensis skin tachykinins: Molecular cloning of kassinin and (Thr2,Âlle9)-kassinin biosynthetic precursor cDNAs and comparative bioactivity of mature tachykinins on the smooth muscle of rat urinary bladder. Biochimie, 2009, 91, 613-619.	2.6	9
26	Sauvatide â€“ A novel amidated myotropic decapeptide from the skin secretion of the waxy monkey frog, Phyllomedusa sauvagei. Biochemical and Biophysical Research Communications, 2009, 383, 240-244.	2.1	11
27	Amolopkinins W1 and W2â€”Novel bradykinin-related peptides (BRPs) from the skin of the Chinese torrent frog, Amolops wuyiensis: Antagonists of bradykinin-induced smooth muscle contraction of the rat ileum. Peptides, 2009, 30, 893-900.	2.4	18
28	A family of kassinatuerin-2 related peptides from the skin secretion of the African hyperoliid frog, Kassina maculata. Peptides, 2009, 30, 1428-1433.	2.4	8
29	The therapeutic potential of the proteasome in leukaemia. Hematological Oncology, 2008, 26, 73-81.	1.7	15
30	Skin bradykinin-related peptides (BRPs) and their biosynthetic precursors (kininogens): Comparisons between various taxa of Chinese and North American ranid frogs. Peptides, 2008, 29, 393-403.	2.4	23
31	Novel brevinins from Chinese piebald odorous frog (Huia schmackeri) skin deduced from cloned biosynthetic precursors. Peptides, 2008, 29, 1456-1460.	2.4	12
32	Novel dermaseptin, adenoregulin and caerin homologs from the Central American red-eyed leaf frog, Agalychnis callidryas, revealed by functional peptidomics of defensive skin secretion. Biochimie, 2008, 90, 1435-1441.	2.6	15
33	Activity-based selection of a proteolytic species using ribosome display. Biochemical and Biophysical Research Communications, 2008, 370, 77-81.	2.1	8
34	HV-BBIâ€”A novel amphibian skin Bowmanâ€“Birk-like trypsin inhibitor. Biochemical and Biophysical Research Communications, 2008, 372, 191-196.	2.1	45
35	Recombinant cathepsin S propeptide attenuates cell invasion by inhibition of cathepsin Lâ€“like proteases in tumor microenvironment. Molecular Cancer Therapeutics, 2008, 7, 538-547.	4.1	26
36	The complex array of bradykinin-related peptides (BRPs) in the peptidome of pickerel frog (Rana) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	2.4	14

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37	Rapid identification of precursor cDNAs encoding five structural classes of antimicrobial peptides from pickerel frog (Rana palustris) skin secretion by single step â€œshotgunâ€•cloning. Peptides, 2007, 28, 1605-1610.	2.4	36
38	Dipeptide proline diphenyl phosphonates are potent, irreversible inhibitors of seprase (FAPÎ±). Biochemical and Biophysical Research Communications, 2006, 346, 436-446.	2.1	31
39	Synthesis, kinetic evaluation, and utilization of a biotinylated dipeptide proline diphenyl phosphonate for the disclosure of dipeptidyl peptidase IV-like serine proteases. Biochemical and Biophysical Research Communications, 2006, 347, 373-379.	2.1	20
40	Cloning from tissue surrogates: Antimicrobial peptide (esculentin) cDNAs from the defensive skin secretions of Chinese ranid frogs. Genomics, 2006, 87, 638-644.	2.9	19
41	Amphibian skin peptides and their corresponding cDNAs from single lyophilized secretion samples: Identification of novel brevinins from three species of Chinese frogs. Peptides, 2006, 27, 42-48.	2.4	32
42	Pelophylaxins: Novel antimicrobial peptide homologs from the skin secretion of the Fukien gold-striped pond frog, Pelophylax plancyi fukienensis. Peptides, 2006, 27, 36-41.	2.4	15
43	The Chinese bamboo leaf odorous frog (Rana (Odorrana) versabilis) and North American Rana frogs share the same families of skin antimicrobial peptides. Peptides, 2006, 27, 1738-1744.	2.4	47
44	Elements of the granular gland peptidome and transcriptome persist in air-dried skin of the South American orange-legged leaf frog, Phyllomedusa hypocondrialis. Peptides, 2006, 27, 2129-2136.	2.4	53
45	Lividins: Novel antimicrobial peptide homologs from the skin secretion of the Chinese Large Odorous frog, Rana (Odorrana) livida. Peptides, 2006, 27, 2118-2123.	2.4	32
46	Components of the peptidome and transcriptome persist in lin wa pi: The dried skin of the Heilongjiang brown frog (Rana amurensis) as used in traditional Chinese medicine. Peptides, 2006, 27, 2688-2694.	2.4	30
47	Cathepsin S expression: An independent prognostic factor in glioblastoma tumoursâ€”a pilot study. International Journal of Cancer, 2006, 119, 854-860.	5.1	78
48	Comparative Selectivity and Specificity of the Proteasome Inhibitors BzLLLCOCHO, PS-341, and MG-132. Cancer Research, 2006, 66, 6379-6386.	0.9	129
49	Proteasome-mediated effects on amyloid precursor protein processing at the Î³-secretase site. Biochemical Journal, 2005, 385, 545-550.	3.7	46
50	Kassinakinin S: A novel histamine-releasing heptadecapeptide from frog (Kassina senegalensis) skin secretion. Biochemical and Biophysical Research Communications, 2005, 337, 474-480.	2.1	15
51	The membrane-anchored serine protease, TMPRSS2, activates PAR-2 in prostate cancer cells. Biochemical Journal, 2005, 388, 967-972.	3.7	157
52	Molecular cloning of a novel putative potassium channel-blocking neurotoxin from the venom of the North African scorpion, Androctonus amoreuxi. Peptides, 2005, 26, 731-736.	2.4	27
53	Partial structure of the phylloxin gene from the giant monkey frog, Phyllomedusa bicolor: Parallel cloning of precursor cDNA and genomic DNA from lyophilized skin secretion. Peptides, 2005, 26, 2624-2628.	2.4	12
54	Dermatoxin and phylloxin from the waxy monkey frog, Phyllomedusa sauvagei: Cloning of precursor cDNAs and structural characterization from lyophilized skin secretion. Regulatory Peptides, 2005, 129, 103-108.	1.9	20

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55	Utilization of biotinylated diphenyl phosphonates for disclosure of serine proteases. Analytical Biochemistry, 2004, 326, 273-275.	2.4	21
56	The Clinical Significance of Cathepsin S Expression in Human Astrocytomas. American Journal of Pathology, 2003, 163, 175-182.	3.8	94
57	The Proteasome: A Novel Therapeutic Target in Haematopoietic Malignancy. Hematology, 2003, 8, 275-283.	1.5	6
58	Irreversible inhibition of the bacterial cysteine protease-transpeptidase sortase (SrtA) by substrate-derived affinity labels. Biochemical Journal, 2002, 366, 953-958.	3.7	75
59	A High-Throughput Microtiter Plate-Based Calcium Assay for the Study of Protease-Activated Receptor 2 Activation. Analytical Biochemistry, 2001, 290, 378-379.	2.4	3
60	Potent new leucine aminopeptidase inhibitor of novel structure synthesised by a modified Wadsworthâ€“Emmons (Horner) Wittig procedure. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 1481-1482.	2.2	4
61	Development of peptidyl Î±-keto-Î²-aldehydes as new inhibitors of cathepsin L â€” comparisons of potency and selectivity profiles with cathepsin B. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 1771-1773.	2.2	24
62	Inhibition of escherichia coli glucosamine synthetase by novel electrophilic analogues of glutamineâ€”comparison with 6-diazo-5-oxo-norleucine. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 2795-2798.	2.2	17
63	Synthesis of ketomethylene amino pseudopeptide analogues via reductive amination of glyoxals derived from Î±-amino acids. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 153-155.	2.2	8
64	Evaluation of Dipeptide Î±-Keto-Î²-aldehydes as New Inhibitors of Cathepsin S. Biochemical and Biophysical Research Communications, 2000, 275, 401-405.	2.1	37
65	Asymmetric Preference of Serine Proteases toward Phosphonate and Phosphinate Esters. Biochemical and Biophysical Research Communications, 2000, 276, 1235-1239.	2.1	16
66	Partial Characterization of a Novel Cathepsin L-like Protease from Fasciola hepatica. Biochemical and Biophysical Research Communications, 2000, 277, 79-82.	2.1	6
67	Protease-Activated Receptor-2 Involvement in Hypotension in Normal and Endotoxemic Rats In Vivo. Circulation, 1999, 99, 2590-2597.	1.6	104
68	The Synthesis of Diphenyl Phosphonate Analogues of Î±-Amino Acids as Enzyme Inhibitors. Phosphorus, Sulfur and Silicon and the Related Elements, 1999, 147, 297-297.	1.6	2
69	The Synthesis of Phosphinic Acid Based Proteinase Inhibitors. Phosphorus, Sulfur and Silicon and the Related Elements, 1999, 144, 761-764.	1.6	4
70	The Synthesis and Utilization of 2,4-Dinitrophenyl-Labeled Irreversible Peptidyl Diazomethyl Ketone Inhibitors. Analytical Biochemistry, 1998, 261, 131-138.	2.4	5
71	Inhibitors of the chymotrypsin-like activity of proteasome based on di- and tri-peptidyl Î±-keto aldehydes (glyoxals). Bioorganic and Medicinal Chemistry Letters, 1998, 8, 373-378.	2.2	69
72	Synthesis and proteinase inhibitory properties of diphenyl phosphonate analogues of aspartic and glutamic acids. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 1655-1660.	2.2	19

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73	55 Pitfalls of using organic solvents in biological Systems. Biochemical Society Transactions, 1998, 26, S45-S45.	3.4	0
74	56 Cytokine processing by transformed and non-transformed cell types. Biochemical Society Transactions, 1998, 26, S46-S46.	3.4	0
75	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
76	18 Generation of a phage display library to determine specificity of proteases. Biochemical Society Transactions, 1998, 26, S7-S7.	3.4	0
77	Peptidyl inverse esters of p-methoxybenzoic acid: a novel class of potent inactivator of the serine proteases. Biochemical Journal, 1997, 325, 609-616.	3.7	8
78	Identification of potential activators of proteinase-activated receptor-21. FEBS Letters, 1997, 417, 267-269.	2.8	58
79	Synthesis of diphenyl phosphonate analogues of tyrosine and tryptophan and derived peptides as chymotrypsin inhibitors. Chemical Communications, 1996, , 1155.	4.1	11
80	Design and Enantioselective Synthesis of Phosphonates as Enzyme Inhibitors. Phosphorus, Sulfur and Silicon and the Related Elements, 1996, 111, 90-90.	1.6	2
81	A highly convenient route to optically pure Î±-aminophosphonic acids. Tetrahedron Letters, 1995, 36, 4451-4454.	1.4	65
82	Carboxyfluorescein and biotin neuromedin C analogues: Synthesis and applications. Peptides, 1995, 16, 255-261.	2.4	4
83	The synthesis of some peptides related to the amyloid ? peptide 25?35: Use of N-(2-hydroxy-4-methoxybenzyl) protection. International Journal of Peptide Research and Therapeutics, 1994, 1, 135-141.	0.1	7
84	A convenient synthesis of phosphonate isosteres of serine phosphates. Tetrahedron Letters, 1994, 35, 3597-3600.	1.4	10
85	The detection of serine elastase in human breast cancer. Biochemical Society Transactions, 1994, 22, 20S-20S.	3.4	3
86	B-Loop analogues of human Epidermal Growth Factor. Biochemical Society Transactions, 1994, 22, 21S-21S.	3.4	1
87	Synthesis of a cyclic analogue of the Câ€loop region of epidermal growth factor, containing 1â€aminocyclopropaneâ€1â€carboxylic acid. International Journal of Peptide and Protein Research, 1994, 43, 225-229.	0.1	5
88	A convenient synthesis of N-protected diphenyl phosphonate ester analogues of ornithine, lysine and homolysine.. Tetrahedron Letters, 1993, 34, 2847-2850.	1.4	44
89	Neurokinin A analogues binding to isolated membranes from guinea-pig brain. Biochemical Society Transactions, 1992, 20, 867-869.	3.4	0
90	Effects of some neurokinin A analogues on tachykinin-induced contraction of guinea pig trachea. Peptides, 1991, 12, 1069-1075.	2.4	6

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91	Neurokinin A analogue binding to NK-2 receptors from guinea-pig brain. Biochemical Society Transactions, 1991, 19, 13S-13S.	3.4	0
92	Receptor binding and contractile activity of some synthetic neurotensin fragments on isolated guinea-pig Taenia coli.. Biochemical Society Transactions, 1991, 19, 31S-31S.	3.4	0
93	Synthesis and activity of a novel, irreversible inhibitor of cathepsin B. Biochemical Society Transactions, 1990, 18, 315-316.	3.4	2
94	Inhibition of bovine cathepsin B by amino acid-derived nitriles. Biochemical Society Transactions, 1990, 18, 316-316.	3.4	3
95	Facile solubilization of tumour-associated cathepsin B by acid treatment. Biochemical Society Transactions, 1990, 18, 317-317.	3.4	0
96	Design and synthesis of putative inhibitors of glucosamine synthetase. Biochemical Society Transactions, 1990, 18, 317-318.	3.4	1
97	Biological testing of some synthetic analogues of the salivary peptide, sialin. Biochemical Society Transactions, 1990, 18, 337-338.	3.4	4
98	1H-nuclear magnetic resonance conformational studies on synthetic analogues of gastrin-releasing peptide. Biochemical Society Transactions, 1990, 18, 341-342.	3.4	1
99	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
100	Mitogenic activity of GRP18â€“27 analogues on the ZR-75-1 human breast cancer cell line. Biochemical Society Transactions, 1990, 18, 354-354.	3.4	9
101	Synthesis, monitoring and structure-function studies on some neurokinin A analogues. Biochemical Society Transactions, 1990, 18, 1323-1325.	3.4	3
102	Novel Câ€terminal gastrin antagonists Synthesis and biological activity. International Journal of Peptide and Protein Research, 1990, 35, 301-305.	0.1	10
103	Visualisation of the gastrin receptor within rat mucosa using a biotinylated gastrin antagonist. International Journal of Peptide and Protein Research, 1990, 35, 306-309.	0.1	4
104	Kinetic studies of the inhibition of thrombin by synthetic peptide fragments of hirudin. Biochemical Society Transactions, 1989, 17, 692-693.	3.4	1
105	The preparation of a C-terminal gastrin peptide containing a synthetic B-bend mimetic. Biochemical Society Transactions, 1988, 16, 175-176.	3.4	13
106	Peptidase activity in mammalian cerebral cortex. Biochemical Society Transactions, 1988, 16, 405-406.	3.4	0
107	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
108	The behaviour of urokinase and porcine kidney cell plasminogen activator towards some synthetic peptides. Thrombosis Research, 1984, 34, 103-107.	1.7	10