Antonio Baici

List of Publications by Year in descending order

81 papers	3,173 citations	134610 34 h-index	182931 54 g-index
85 all docs	85 docs citations	85 times ranked	3379 citing authors

#	Article	IF	Citations
1	interferENZY: A Web-Based Tool for Enzymatic Assay Validation and Standardized Kinetic Analysis. Journal of Molecular Biology, 2021, 433, 166613.	2.0	4
2	STRENDA DB: enabling the validation and sharing of enzyme kinetics data. FEBS Journal, 2018, 285, 2193-2204.	2.2	38
3	Dendrochronological investigation of the bowed string instruments at the Theatre Museum Carlo Schmidl in Trieste, Italy. Journal of Cultural Heritage, 2017, 27, S55-S62.	1.5	13
4	Specific Inhibition of Î²-Secretase Processing of the Alzheimer Disease Amyloid Precursor Protein. Cell Reports, 2016, 14, 2127-2141.	2.9	87
5	Kinetics of Enzyme-Modifier Interactions. , 2015, , .		22
6	The Basic Mechanisms of Inhibition and Nonessential Activation. , 2015, , 209-293.		1
7	Basic Knowledge. , 2015, , 1-64.		3
8	Taxonomy of Enzymeâ€“Modifier Interactions and the Specific Velocity Plot. , 2015, , 127-169.		1
9	Slow-Onset Enzyme Inhibition. , 2015, , 367-444.		1
10	A novel allosteric mechanism in the cysteine peptidase cathepsin K discovered by computational methods. Nature Communications, 2014, 5, 3287.	5.8	77
11	Probing the Activity Modification Space of the Cysteine Peptidase Cathepsin K with Novel Allosteric Modifiers. PLoS ONE, 2014, 9, e106642.	1.1	20
12	Zymogen activation of neurotrypsin and neurotrypsin-dependent agrin cleavage on the cell surface are enhanced by glycosaminoglycans. Biochemical Journal, 2013, 453, 83-100.	1.7	11
13	Kinetics of the Interaction of Peptidases with Substrates and Modifiers. , 2013, , 37-84.		4
14	Human caspases in vitro: Expression, purification and kinetic characterization. Protein Expression and Purification, 2012, 84, 236-246.	0.6	32
15	Functional characterization of the Mycobacterium tuberculosis zinc metallopeptidase Zmp1 and identification of potential substrates. Biological Chemistry, 2012, 393, 631-640.	1.2	24
16	Clusterin is a specific stabilizer and liberator of extracellular cathepsin K. FEBS Letters, 2012, 586, 1062-1066.	1.3	13
17	Conformational flexibility and allosteric regulation of cathepsin K. Biochemical Journal, 2010, 429, 379-389.	1.7	65
18	Paradoxical interactions between modifiers and elastaseâ€2. FEBS Journal, 2010, 277, 2486-2495.	2.2	10

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19	3â€Fluoroâ€2,4â€dioxaâ€3â€phosphadecalins as Inhibitors of Acetylcholinesterase. A Reappraisal of Kinetic Mechanisms and Diagnostic Methods. Chemistry and Biodiversity, 2009, 6, 261-282.	1.0	26
20	Simultaneous interaction of enzymes with two modifiers: Reappraisal of kinetic models and new paradigms. Journal of Theoretical Biology, 2009, 261, 318-329.	0.8	13
21	Calmodulin Is a Nonessential Activator of Secretory Phospholipase A₂. Biochemistry, 2009, 48, 11319-11328.	1.2	17
22	A doubleâ€headed cathepsin B inhibitor devoid of warhead. Protein Science, 2008, 17, 2145-2155.	3.1	36
23	Purification and enzymological characterization of murine neurotrypsin. Protein Expression and Purification, 2008, 61, 13-21.	0.6	20
24	Interaction between Human Cathepsins K, L, and S and Elastins. Journal of Biological Chemistry, 2007, 282, 7893-7902.	1.6	84
25	Specific cleavage of agrin by neurotrypsin, a synaptic protease linked to mental retardation. FASEB Journal, 2007, 21, 3468-3478.	0.2	89
26	Inhibition of Caspase-2 by a Designed Ankyrin Repeat Protein: Specificity, Structure, and Inhibition Mechanism. Structure, 2007, 15, 625-636.	1.6	125
27	Regulation of human cathepsin B by alternative mRNA splicing: homeostasis, fatal errors and cell death. Biological Chemistry, 2006, 387, 1017-21.	1.2	35
28	Dual concentration-dependent activity of thyroglobulin type-1 domain of testican: specific inhibitor and substrate of cathepsin L. Biological Chemistry, 2005, 386, 75-83.	1.2	29
29	Folding Competence of N-terminally Truncated Forms of Human Procathepsin B. Journal of Biological Chemistry, 2005, 280, 11973-11980.	1.6	19
30	Exon Skipping of Cathepsin B. Journal of Biological Chemistry, 2004, 279, 41012-41017.	1.6	58
31	Cathepsin B in Osteoarthritis: Uncontrolled Proteolysis in the Wrong Place. Seminars in Arthritis and Rheumatism, 2004, 34, 24-28.	1.6	27
32	Monomeric and Dimeric bZIP Transcription Factor GCN4 Bind at the Same Rate to Their Target DNA Siteâ€. Biochemistry, 2004, 43, 718-727.	1.2	48
33	The alternative use of exonsÂ2 and 3 in cathepsinÂB mRNA controls enzyme trafficking and triggers nuclear fragmentation in human cells. Histochemistry and Cell Biology, 2003, 119, 93-101.	0.8	38
34	Exploring the Role of 5â€™ Alternative Splicing and of the 3â€™-Untranslated Region of Cathepsin B mRNA. Biological Chemistry, 2003, 384, 1007-18.	1.2	28
35	Cathepsin B expression and down-regulation by gene silencing and antisense DNA in human chondrocytes. Biochemical Journal, 2002, 367, 209-217.	1.7	31
36	Kinetics and Mechanism of Long-Chain Fatty Acid Transport into Phosphatidylcholine Vesicles from Various Donor Systems. Biochemistry, 2002, 41, 1591-1601.	1.2	41

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37	Detection of a very rapid first phase in complex formation of DnaK and peptide substrate. FEBS Letters, 2002, 520, 25-29.	1.3	5
38	Alternative messenger RNA splicing and enzyme forms of cathepsin B in human osteoarthritic cartilage and cultured chondrocytes. Arthritis and Rheumatism, 2001, 44, 1819-1831.	6.7	46
39	Cytoskeletal architecture and cathepsinÂB trafficking in human articular chondrocytes. Histochemistry and Cell Biology, 2000, 114, 363-372.	0.8	27
40	Stimulation of angiogenesis through cathepsin B inactivation of the tissue inhibitors of matrix metalloproteinases. FEBS Letters, 1999, 455, 286-290.	1.3	147
41	Parallel pathways in the folding of a short-term denatured scFv fragment of an antibody. Folding & Design, 1998, 3, 39-49.	4.5	15
42	Characterization of Human Matrilin-3 (MATN3). Genomics, 1998, 53, 391-394.	1.3	41
43	The Axonally Secreted Serine Proteinase Inhibitor, Neuroserpin, Inhibits Plasminogen Activators and Plasmin but Not Thrombin. Journal of Biological Chemistry, 1998, 273, 2312-2321.	1.6	121
44	Electrostatic Interactions between Human Leukocyte Elastase and Sulfated Glycosaminoglycans: Physiological Implications. Biological Chemistry, 1997, 378, 1481-9.	1.2	15
45	Very Rapid, Ionic Strength-Dependent Association and Folding of a Heterodimeric Leucine Zipper. Biochemistry, 1997, 36, 204-213.	1.2	94
46	The power stroke of the DnaK/DnaJ/GrpE molecular chaperone system 1 1Edited by J.Karn. Journal of Molecular Biology, 1997, 269, 757-768.	2.0	117
47	Differential expression of mRNAs for endopeptidases in phenotypically modulated (`dedifferentiated') human articular chondrocytes. FEBS Letters, 1997, 412, 453-455.	1.3	13
48	pH-dependent hysteretic behaviour of human myeloblastin (leucocyte proteinase 3). Biochemical Journal, 1996, 317, 901-905.	1.7	16
49	Human Myeloblastin (Leukocyte Proteinase 3): Reactions with Substrates, Inactivators and Activators in Comparison with Leukocyte Elastase. Biological Chemistry Hoppe-Seyler, 1996, 377, 579-586.	1.4	6
50	Antileukoprotease Inhibits Stratum Corneum Chymotryptic Enzyme. Journal of Biological Chemistry, 1996, 271, 21886-21890.	1.6	97
51	Kinetics of Folding of Leucine Zipper Domains. Biochemistry, 1995, 34, 4097-4107.	1.2	170
52	Cephem Sulfones as Inactivators of Human Leukocyte Elastase. 5. 7.alpha.-Methoxy- and 7.alpha.-Chloro-1,1-dioxocephem 4-Ketones. Journal of Medicinal Chemistry, 1994, 37, 4003-4019.	2.9	23
53	Mechanism of assembly of a leucine zipper domain. Journal of the American Chemical Society, 1994, 116, 6973-6974.	6.6	47
54	Inhibition of the human leukocyte endopeptidases elastase and cathepsin G and of porcine pancreatic elastase by N-oleoyl derivatives of heparin. Biochemical Pharmacology, 1993, 46, 1545-1549.	2.0	42

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55	Cathepsin B secretion by rabbit articular chondrocytes: modulation by cycloheximide and glycosaminoglycans. Cell and Tissue Research, 1990, 259, 567-573.	1.5	35
56	Interaction of human leukocyte elastase with soluble and insoluble protein substrates. A practical kinetic approach. BBA - Proteins and Proteomics, 1990, 1040, 355-364.	2.1	17
57	The kinetic mechanism of inhibition of human leukocyte elastase by MR889, a new cyclic thiolic compound. Biochemical Pharmacology, 1990, 39, 919-924.	2.0	25
58	Effect of interleukin-1Î² on the production of cathepsin B by rabbit articular chondrocytes. FEBS Letters, 1990, 277, 93-96.	1.3	25
59	Interaction of site specific hirudin variants with Î±-thrombin. FEBS Letters, 1988, 229, 87-90.	1.3	91
60	Cysteine proteinases produced by cultured rabbit V2 carcinoma cells and rabbit skin fibroblasts. International Journal of Cancer, 1986, 38, 753-761.	2.3	23
61	Hysteretic Enzyme Response Induced by Inhibitory Antibodies against Human Leukocyte Elastase. Biological Chemistry Hoppe-Seyler, 1986, 367, 245-258.	1.4	6
62	Interaction between human leukocyte elastase and chondroitin sulfate. Chemico-Biological Interactions, 1984, 51, 1-11.	1.7	68
63	Interaction of the human leukocyte proteinases elastase and cathepsin G with gold, silver and copper compounds. Biochemical Pharmacology, 1984, 33, 1859-1865.	2.0	11
64	Cathepsin G from human polymorphonuclear leukocytes cleaves human IgM. Molecular Immunology, 1982, 19, 719-727.	1.0	25
65	The Slow, Tight-Binding Inhibition of Cathepsin B by Leupeptin. A Hysteretic Effect. FEBS Journal, 1982, 129, 33-41.	0.2	90
66	Methodologic Problems Encountered in the Assay of Proteinases in Lewis Lung Carcinoma, a Mouse Metastasizing Tumor. Tumori, 1982, 68, 381-387.	0.6	2
67	Inhibition of human elastase from polymorphonuclear leucocytes by gold sodium thiomalate and pentosan polysulfate (SP-54Â®). Biochemical Pharmacology, 1981, 30, 703-708.	2.0	59
68	The Specific Velocity Plot. A Graphical Method for Determining Inhibition Parameters for Both Linear and Hyperbolic Enzyme Inhibitors. FEBS Journal, 1981, 119, 9-14.	0.2	70
69	Production of agglutinators and rheumatoid factors in plasma cells of rheumatoid and nonrheumatoid synovial tissues. Arthritis and Rheumatism, 1981, 24, 510-519.	6.7	40
70	A handy assay for collagenase using reconstituted fluorescein-labeled collagen fibrils. Analytical Biochemistry, 1980, 108, 230-232.	1.1	36
71	Cleavage of human IgM with human lysosomal elastase. Immunology Letters, 1980, 2, 47-51.	1.1	13
72	Inhibition of human elastase from polymorphonuclear leucocytes by a glycosaminoglycan polysulfate (ArteparonÂ®). Biochemical Pharmacology, 1980, 29, 1723-1727.	2.0	88

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73	Co-oligopeptides containing two aromatic residues spaced by glycyl residues. X. Proton magnetic resonance study of co-oligopeptides of tryptophan and glycine. Biopolymers, 1979, 18, 995-1008.	1.2	17
74	Stopped-flow studies of the aerobic reduction of ascorbic acid oxidase. Journal of Molecular Catalysis, 1979, 6, 135-143.	1.2	9
75	Co-oligopeptides containing two aromatic residues spaced by glycyl residues. 11. A conformational study of tryptophan- and glycine-containing oligopeptides based on the temperature dependence of proton NMR spectra. Journal of the American Chemical Society, 1979, 101, 5170-5178.	6.6	18
76	Fluorescence Properties of Reduced Thionicotinamide - Adenine Dinucleotide and of Its Complex with Octopine Dehydrogenase. FEBS Journal, 1978, 83, 601-607.	0.2	14
77	Further investigations of the transient kinetics of alcohol oxidation catalysed by horse liver alcohol dehydrogenase. Journal of Molecular Biology, 1977, 114, 267-279.	2.0	15
78	Investigations on the Kinetic Mechanism of Octopine Dehydrogenase. 2. Location of the Rate-Limiting Step for Enzyme Turnover. FEBS Journal, 1975, 59, 185-191.	0.2	13
79	Temperature-Determined Enzymatic Functions in Octopine Dehydrogenase. FEBS Journal, 1975, 50, 511-516.	0.2	35
80	Relation between fluorescence and conformation of iÎµNAD+ bound to dehydrogenases. Biochemistry, 1975, 14, 362-368.	1.2	58
81	Influence of Ligands on the Coenzyme Dissociation Constants in Octopine Dehydrogenase. FEBS Journal, 1974, 46, 59-66.	0.2	36