Petr Kuzmic

List of Publications by Year in descending order

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52 papers	3,738 citations	279487 23 h-index	214527 47 g-index
63 all docs	63 docs citations	63 times ranked	4588 citing authors

#	Article	IF	Citations
1	The Enzymatic Activity of Inosine 5â€²-Monophosphate Dehydrogenase May Not Be a Vulnerable Target for Staphylococcus aureus Infections. ACS Infectious Diseases, 2021, 7, 3062-3076.	1.8	5
2	High-Affinity Alkynyl Bisubstrate Inhibitors of Nicotinamide N-Methyltransferase (NNMT). Journal of Medicinal Chemistry, 2019, 62, 9837-9873.	2.9	41
3	Sabellastarte magnifica Carboxypeptidase Inhibitor: The first Kunitz inhibitor simultaneously interacting with carboxypeptidases and serine proteases. Biochimie, 2018, 150, 37-47.	1.3	1
4	The small GTPases K-Ras, N-Ras, and H-Ras have distinct biochemical properties determined by allosteric effects. Journal of Biological Chemistry, 2017, 292, 12981-12993.	1.6	105
5	Analysis of a dual domain phosphoglycosyl transferase reveals a ping-pong mechanism with a covalent enzyme intermediate. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7019-7024.	3.3	30
6	An algebraic model to determine substrate kinetic parameters by global nonlinear fit of progress curves. Analytical Biochemistry, 2017, 518, 16-24.	1.1	8
7	Inhibition of Inosine-5â€²-monophosphate Dehydrogenase from Bacillus anthracis: Mechanism Revealed by Pre-Steady-State Kinetics. Biochemistry, 2016, 55, 5279-5288.	1.2	13
8	An algebraic model for the kinetics of covalent enzyme inhibition at low substrate concentrations. Analytical Biochemistry, 2015, 484, 82-90.	1.1	13
9	Inhibition of Plasma Kallikrein by a Highly Specific Active Site Blocking Antibody. Journal of Biological Chemistry, 2014, 289, 23596-23608.	1.6	96
10	Covalent EGFR inhibitor analysis reveals importance of reversible interactions to potency and mechanisms of drug resistance. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 173-178.	3.3	217
11	Nonlinear Regression Models for Determination of Nicotinamide Adenine Dinucleotide Content in Human Embryonic Stem Cells. Stem Cell Reviews and Reports, 2013, 9, 786-793.	5.6	7
12	Homotropic Cooperativity from the Activation Pathway of the Allosteric Ligand-Responsive Regulatory trp RNA-Binding Attenuation Protein. Biochemistry, 2013, 52, 8855-8865.	1.2	4
13	CYP2E1 substrate inhibition. MECHANISTIC INTERPRETATION THROUGH AN EFFECTOR SITE FOR MONOCYCLIC COMPOUNDS.. Journal of Biological Chemistry, 2013, 288, 32640.	1.6	0
14	Optimal design for the doseâ€“response screening of tight-binding enzyme inhibitors. Analytical Biochemistry, 2011, 419, 117-122.	1.1	4
15	A sequential mechanism for clathrin cage disassembly by 70-kDa heat-shock cognate protein (Hsc70) and auxilin. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6927-6932.	3.3	47
16	A generalized numerical approach to steady-state enzyme kinetics: Applications to protein kinase inhibition. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 635-641.	1.1	0
17	Detection of enzyme-catalyzed polysaccharide synthesis on surfaces. Biocatalysis and Biotransformation, 2010, 28, 64-71.	1.1	4
18	Complexation between Methyl Viologen (Paraquat) Bis(Hexafluorophosphate) and Dibenzo[24]Crownâ€8 Revisited. Chemistry - A European Journal, 2009, 15, 106-116.	1.7	64

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19	Analysis of residuals from enzyme kinetic and protein folding experiments in the presence of correlated experimental noise. Analytical Biochemistry, 2009, 395, 1-7.	1.1	9
20	Application of the Van Slykeâ€“Cullen irreversible mechanism in the analysis of enzymatic progress curves. Analytical Biochemistry, 2009, 394, 287-289.	1.1	22
21	DynaFitâ€”A Software Package for Enzymology. Methods in Enzymology, 2009, 467, 247-280.	0.4	180
22	Specific inhibition of tissue kallikrein 1 with a human monoclonal antibody reveals a potential role in airway diseases. Biochemical Journal, 2009, 422, 383-392.	1.7	40
23	A steady state mathematical model for stepwise â€œslow-bindingâ€•reversible enzyme inhibition. Analytical Biochemistry, 2008, 380, 5-12.	1.1	12
24	CYP2E1 Substrate Inhibition. Journal of Biological Chemistry, 2008, 283, 3487-3496.	1.6	64
25	Global Analysis of Proteinâˆ’Protein Interactions Reveals Multiple CYP2E1âˆ’Reductase Complexes. Biochemistry, 2007, 46, 10192-10201.	1.2	31
26	Structural and Mechanistic Changes along an Engineered Path from Metallo to Nonmetallo 3-Deoxy-d-manno-octulosonate 8-Phosphate Synthases,. Biochemistry, 2007, 46, 4532-4544.	1.2	19
27	A generalized numerical approach to rapid-equilibrium enzyme kinetics: Application to 17Î²-HSD. Molecular and Cellular Endocrinology, 2006, 248, 172-181.	1.6	15
28	Mixed-type noncompetitive inhibition of anthrax lethal factor protease by aminoglycosides. FEBS Journal, 2006, 273, 3054-3062.	2.2	25
29	Self-Assembled Small-Molecule Microarrays for Protease Screening and Profiling. ChemBioChem, 2006, 7, 1790-1797.	1.3	66
30	Practical Robust Fit of Enzyme Inhibition Data. Methods in Enzymology, 2004, 383, 366-381.	0.4	12
31	Molecular Characterization of Ancylostoma ceylanicum Kunitz-Type Serine Protease Inhibitor: Evidence for a Role in Hookworm-Associated Growth Delay. Infection and Immunity, 2004, 72, 2214-2221.	1.0	58
32	Mechanism of Loading the Escherichia coli DNA Polymerase III Sliding Clamp. Journal of Biological Chemistry, 2004, 279, 4376-4385.	1.6	36
33	Effect of ribavirin and amantadine on early hepatitis C virus RNA rebound and clearance in serum during daily high-dose interferon. Digestive Diseases and Sciences, 2003, 48, 126-139.	1.1	11
34	Kinetic determination of tight-binding impurities in enzyme inhibitors. Analytical Biochemistry, 2003, 319, 272-279.	1.1	6
35	Molecular Characterization of Ancylostoma Inhibitors of Coagulation Factor Xa. Journal of Biological Chemistry, 2002, 277, 6223-6229.	1.6	41
36	A detailed physical map of the 6p reading disability locus, including new markers and confirmation of recombination suppression. Human Genetics, 2002, 111, 339-349.	1.8	7

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37	High-Throughput Screening of Enzyme Inhibitors: Automatic Determination of Tight-Binding Inhibition Constants. Analytical Biochemistry, 2000, 281, 62-67.	1.1	58
38	High-Throughput Screening of Enzyme Inhibitors: Simultaneous Determination of Tight-Binding Inhibition Constants and Enzyme Concentration. Analytical Biochemistry, 2000, 286, 45-50.	1.1	56
39	General Numerical Treatment of Competitive Binding Kinetics: Application to Thrombinâ€“Dehydrothrombinâ€“Hirudin. Analytical Biochemistry, 1999, 267, 17-23.	1.1	11
40	Fixed-point methods for computing the equilibrium composition of complex biochemical mixtures. Biochemical Journal, 1998, 331, 571-575.	1.7	8
41	Mechanical Effects on the Kinetics of the HIV Proteinase Deactivation. Biochemical and Biophysical Research Communications, 1996, 221, 313-317.	1.0	8
42	Program DYNAFIT for the Analysis of Enzyme Kinetic Data: Application to HIV Proteinase. Analytical Biochemistry, 1996, 237, 260-273.	1.1	1,494
43	Intramolecularly quenched fluorescent peptide substrates of peptidyl-prolyl cis-trans isomerases: The first direct fluorimetric assay for PPIases. , 1993, , 479-480.		0
44	Lithium chloride perturbation of cis-trans peptide bond equilibria: effect on conformational equilibria in cyclosporin A and on time-dependent inhibition of cyclophilin. Journal of the American Chemical Society, 1992, 114, 2670-2675.	6.6	121
45	Continuous fluorimetric direct (uncoupled) assay for peptidyl prolyl cis-trans isomerases. Journal of the American Chemical Society, 1992, 114, 2758-2759.	6.6	40
46	Mixtures of tight-binding enzyme inhibitors. Kinetic analysis by a recursive rate equation. Analytical Biochemistry, 1992, 200, 68-73.	1.1	40
47	Fluorescence displacement method for the determination of receptor-ligand binding constants. Analytical Biochemistry, 1992, 205, 65-69.	1.1	34
48	Cis-trans isomerization of the 9-10 bond in CsA is partially responsible for time-dependent inhibition of cyclophilin by CsA. , 1992, , 785-787.		0
49	Mathematical models for the kinetics of peptidyl-prolyl cis-trans isomerases. , 1992, , 470-471.		0
50	Determination of kinetic constants for peptidyl prolyl cis-trans isomerases by an improved spectrophotometric assay. Biochemistry, 1991, 30, 6127-6134.	1.2	526
51	Long range electrostatic effects in pepsin catalysis. Tetrahedron, 1991, 47, 2519-2534.	1.0	9
52	Nonspecific Electrostatic Binding of Substrates and Inhibitors to Porcine Pepsin. Advances in Experimental Medicine and Biology, 1991, 306, 75-86.	0.8	4