

Fei Liao

List of Publications by Year in descending order

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85
papers

1,292
citations

304602

22
h-index

414303

32
g-index

90
all docs

90
docs citations

90
times ranked

1372
citing authors

#	ARTICLE	IF	CITATIONS
1	Uricase based methods for determination of uric acid in serum. <i>Mikrochimica Acta</i> , 2009, 164, 1-6.	2.5	100
2	An improved malachite green assay of phosphate: Mechanism and application. <i>Analytical Biochemistry</i> , 2011, 409, 144-149.	1.1	91
3	Catalytic Mechanisms for Cofactor-Free Oxidase-Catalyzed Reactions: Reaction Pathways of Uricase-Catalyzed Oxidation and Hydration of Uric Acid. <i>ACS Catalysis</i> , 2017, 7, 4623-4636.	5.5	71
4	Uricases as Therapeutic Agents to Treat Refractory Gout: Current States and Future Directions. <i>Drug Development Research</i> , 2012, 73, 66-72.	1.4	59
5	Synthesis and biological evaluation of novel phosphoramidate derivatives of coumarin as chitin synthase inhibitors and antifungal agents. <i>European Journal of Medicinal Chemistry</i> , 2016, 108, 166-176.	2.6	58
6	Design, synthesis and evaluation of novel quinazoline-2,4-dione derivatives as chitin synthase inhibitors and antifungal agents. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 3405-3413.	1.4	47
7	The comparison of the estimation of enzyme kinetic parameters by fitting reaction curve to the integrated Michaelis-Menten rate equations of different predictor variables. <i>Journal of Proteomics</i> , 2005, 62, 13-24.	2.4	43
8	Classification of difference between inhibition constants of an inhibitor to facilitate identifying the inhibition type. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013, 28, 205-213.	2.5	39
9	Characterization of n uricase from <i>Bacillus fastidiosus</i> A.T.C.C. 26904 and its application to serum uric acid assay by a patented kinetic uricase method. <i>Biotechnology and Applied Biochemistry</i> , 2006, 45, 75.	1.4	38
10	Kinetic analysis of $\hat{1}^3$ -glutamyltransferase reaction process for measuring activity via an integration strategy at low concentrations of $\hat{1}^3$ -glutamyl p-nitroaniline. <i>Journal of Zhejiang University: Science B</i> , 2011, 12, 180-188.	1.3	32
11	Site-Specific PEGylation of Therapeutic Proteins via Optimization of Both Accessible Reactive Amino Acid Residues and PEG Derivatives. <i>BioDrugs</i> , 2012, 26, 209-215.	2.2	29
12	Kinetic substrate quantification by fitting the enzyme reaction curve to the integrated Michaelis-Menten equation. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 375, 756-762.	1.9	28
13	Characterization of Alcohol Dehydrogenase from Permeabilized Brewer's Yeast Cells Immobilized on the Derived Attapulgitic Nanofibers. <i>Applied Biochemistry and Biotechnology</i> , 2010, 160, 2287-2299.	1.4	28
14	Assay of serum arylesterase activity by fitting to the reaction curve with an integrated rate equation. <i>Clinica Chimica Acta</i> , 2001, 314, 67-76.	0.5	27
15	Homogeneous noncompetitive assay of protein via Förster-resonance-energy-transfer with tryptophan residue(s) as intrinsic donor(s) and fluorescent ligand as acceptor. <i>Biosensors and Bioelectronics</i> , 2009, 25, 112-117.	5.3	27
16	Effects of Modification of Amino Groups with Poly(Ethylene Glycol) on a Recombinant Uricase from <i>Bacillus fastidiosus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 1298-1301.	0.6	27
17	Evaluation of a kinetic uricase method for serum uric acid assay by predicting background absorbance of uricase reaction solution with an integrated method. <i>Journal of Zhejiang University: Science B</i> , 2006, 7, 497-502.	1.3	26
18	Crystal structure of <i>Bacillus fastidiosus</i> uricase reveals an unexpected folding of the C-terminus residues crucial for thermostability under physiological conditions. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 7973-7986.	1.7	26

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19	Retardation of skeletal muscle fatigue by the two phenylpropanoid glycosides: Verbascoside and Martynoside from <i>Pedicularis plicata</i> Maxim. <i>Phytotherapy Research</i> , 1999, 13, 621-623.	2.8	25
20	Glutathione S-transferase isozyme alpha 1 is predominantly involved in the cisplatin resistance of common types of solid cancer. <i>Oncology Reports</i> , 2019, 41, 989-998.	1.2	25
21	Significance of combined tests of serum golgi glycoprotein 73 and other biomarkers in diagnosis of small primary hepatocellular carcinoma. <i>Cancer Biomarkers</i> , 2015, 15, 677-683.	0.8	24
22	Homogeneous competitive assay of ligand affinities based on quenching fluorescence of tyrosine/tryptophan residues in a protein via Förster-resonance-energy-transfer. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 77, 869-876.	2.0	22
23	Synthesis and biological evaluation of novel 3-substituted amino-4-hydroxycoumarin derivatives as chitin synthase inhibitors and antifungal agents. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 219-228.	2.5	20
24	The measurement of cyclic nucleotide phosphodiesterase 4 activities via the quantification of inorganic phosphate with malachite green. <i>Analytica Chimica Acta</i> , 2009, 636, 105-110.	2.6	19
25	Spectrophotometric-Dual-Enzyme-Simultaneous Assay in One Reaction Solution: Chemometrics and Experimental Models. <i>Analytical Chemistry</i> , 2013, 85, 2143-2154.	3.2	19
26	Optimization of pH values to formulate the bireagent kit for serum uric acid assay. <i>Biotechnology and Applied Biochemistry</i> , 2015, 62, 137-144.	1.4	18
27	An integration strategy to estimate the initial rates of enzyme reactions with much expanded linear ranges using uricases as models. <i>Analytica Chimica Acta</i> , 2009, 631, 22-28.	2.6	17
28	Correlation of serum arylesterase activity on phenylacetate estimated by the integrated method to common classical biochemical indexes of liver damage. <i>Journal of Zhejiang University: Science B</i> , 2007, 8, 237-241.	1.3	16
29	A new practical system for evaluating the pharmacological properties of uricase as a potential drug for hyperuricemia. <i>Archives of Pharmacal Research</i> , 2010, 33, 1761-1769.	2.7	16
30	Integrated Rate Equation Considering Product Inhibition and Its Application to Kinetic Assay of Serum Ethanol. <i>Analytical Sciences</i> , 2007, 23, 439-444.	0.8	15
31	Comparison of activity indexes for recognizing enzyme mutants of higher activity with uricase as model. <i>Chemistry Central Journal</i> , 2013, 7, 69.	2.6	15
32	The measurement of serum cholinesterase activities by an integration strategy with expanded linear ranges and negligible substrate-activation. <i>Clinical Biochemistry</i> , 2009, 42, 926-928.	0.8	14
33	Reversible Inactivation of an Intracellular Uricase from <i>Bacillus fastidiosus</i> via Dissociation of Homotetramer into Homodimers in Solutions of Low Ionic Strength. <i>Bioscience, Biotechnology and Biochemistry</i> , 2009, 73, 2141-2144.	0.6	13
34	Kinetic Analysis of the Lactate-dehydrogenase-coupled Reaction Process and Measurement of Alanine Transaminase by an Integration Strategy. <i>Analytical Sciences</i> , 2010, 26, 1193-1198.	0.8	12
35	A new approach for the immobilization of permeabilized brewer's yeast cells in a modified composite polyvinyl alcohol lens-shaped capsule containing montmorillonite and dimethyldioctadecylammonium bromide for use as a biocatalyst. <i>Process Biochemistry</i> , 2010, 45, 1445-1449.	1.8	12
36	Approximated maximum adsorption of His-tagged enzyme/mutants on Ni ²⁺ -NTA for comparison of specific activities. <i>International Journal of Biological Macromolecules</i> , 2015, 74, 211-217.	3.6	12

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37	Current Status and Future Prospects of Biomarkers in the Diagnosis of Hepatocellular Carcinoma. <i>International Journal of Biological Markers</i> , 2017, 32, 361-369.	0.7	12
38	Facile spectrophotometric assay of molar equivalents of N-hydroxysuccinimide esters of monomethoxyl poly-(ethylene glycol) derivatives. <i>Chemistry Central Journal</i> , 2012, 6, 142.	2.6	11
39	Comparison of Förster-Resonance-Energy-Transfer Acceptors for Tryptophan and Tyrosine Residues in Native Proteins as Donors. <i>Journal of Fluorescence</i> , 2013, 23, 147-157.	1.3	9
40	Fluorometric Titration Approach for Calibration of Quantity of Binding Site of Purified Monoclonal Antibody Recognizing Epitope/Hapten Nonfluorescent at 340 nm. <i>Analytical Chemistry</i> , 2014, 86, 5667-5672.	3.2	9
41	Fluorometric Titration Assay of Affinity of Tight-Binding Nonfluorescent Inhibitor of Glutathione S-transferase. <i>Journal of Fluorescence</i> , 2015, 25, 1-8.	1.3	9
42	Soluble Expression in <i>Escherichia coli</i> of Active Human Cyclic Nucleotide Phosphodiesterase Isoform 4B2 in Fusion with Maltose-Binding Protein. <i>Bioscience, Biotechnology and Biochemistry</i> , 2009, 73, 968-970.	0.6	8
43	Two glycosidases as label enzymes for concurrent enzyme-linked-immunosorbent-assay of two components via spectrophotometric-dual-enzyme-simultaneous-assay in one solution. <i>Analytical Methods</i> , 2013, 5, 5969.	1.3	8
44	Comparison of modification of a bacterial uricase with N-hydroxysuccinimide esters of succinate and carbonate of monomethoxyl poly(ethylene glycol). <i>Biotechnology and Applied Biochemistry</i> , 2014, 61, 683-690.	1.4	8
45	A Practical System for High-Throughput Screening of Mutants of <i>Bacillus fastidiosus</i> Uricase. <i>Applied Biochemistry and Biotechnology</i> , 2017, 181, 667-681.	1.4	7
46	Estimation of affinities of ligands in mixtures via magnetic recovery of target-ligand complexes and chromatographic analyses: chemometrics and an experimental model. <i>BMC Biotechnology</i> , 2011, 11, 44.	1.7	6
47	Chromogenic substrate from 4-nitro-1-naphthol for hydrolytic enzyme of neutral or slightly acidic optimum pH: 4-Nitro-1-naphthyl-β-D-galactopyranoside as an example. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 646-649.	1.0	6
48	Comparison of Candidate Pairs of Hydrolytic Enzymes for Spectrophotometric-dual-enzyme-simultaneous-assay. <i>Analytical Sciences</i> , 2015, 31, 421-427.	0.8	6
49	Facile Alkaline Lysis of <i>Escherichia coli</i> Cells in High-Throughput Mode for Screening Enzyme Mutants: Arylsulfatase as an Example. <i>Applied Biochemistry and Biotechnology</i> , 2016, 179, 545-557.	1.4	6
50	An integration strategy to measure enzyme activities for detecting irreversible inhibitors with dimethoate on butyrylcholinesterase as a model. <i>International Journal of Environmental Analytical Chemistry</i> , 2011, 91, 431-439.	1.8	5
51	Method to screen aromatic ligands in mixtures for quantitative affinities to target using magnetic separation of bound ligands along with HPLC and UV photometry detection. <i>Mikrochimica Acta</i> , 2012, 176, 243-249.	2.5	5
52	Facile one-step coating approach to magnetic submicron particles with poly(ethylene glycol) coats and abundant accessible carboxyl groups. <i>International Journal of Nanomedicine</i> , 2013, 8, 791.	3.3	5
53	Selective and sensitive homogenous assay of serum albumin with 1-anilinonaphthalene-8-sulphonate as a biosensor. <i>Analytica Chimica Acta</i> , 2014, 829, 60-67.	2.6	5
54	Facile quantitative comparison of specific activities of fusion-tagged enzyme/mutants in cell lysates via prediction of their maximum adsorption by anti-tag antibody immobilized in microplate wells. <i>RSC Advances</i> , 2014, 4, 29925-29932.	1.7	5

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55	A Numerical Approach for Kinetic Analysis of the Nonexponential Thermo-inactivation Process of Uricase. <i>Protein Journal</i> , 2016, 35, 318-329.	0.7	5
56	Ampholytic ion-exchange materials coated with small zwitterions for high-efficacy purification of ionizable soluble biomacromolecules. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 2234-2241.	3.6	5
57	Effects of industrial storage on the bioreduction capacity of brewer's yeast. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2009, 36, 157-162.	1.4	4
58	Resonant-Mie-scattering of aggregates of phosphomolybdate and papaverine for measuring activities and screening inhibitors of cyclic nucleotide phosphodiesterase isozymes. <i>Analytica Chimica Acta</i> , 2013, 804, 215-220.	2.6	4
59	High-throughput estimation of specific activities of enzyme/mutants in cell lysates through immunoturbidimetric assay of proteins. <i>Analytical Biochemistry</i> , 2017, 534, 91-98.	1.1	3
60	Detection of human papillomavirus L1 -16 and -18 DNA and epstein-barr virus DNA in laryngeal carcinoma. <i>Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association</i> , Beijing Institute for Cancer Research, 2005, 17, 121-126.	0.7	2
61	PCFenzyme for Kinetic Analyses of Enzyme Reaction Processes. <i>Procedia Environmental Sciences</i> , 2011, 8, 582-587.	1.3	2
62	Integration of Kinetic Analysis of Reaction Curve with a Proper Classical Approach for Enzymatic Analysis. <i>Scientific World Journal</i> , The, 2012, 2012, 1-6.	0.8	2
63	Facile Characterization of the Immobilization of Streptavidin on Magnetic Submicron Particles with a Fluorescent Probe of Streptavidin. <i>Applied Spectroscopy</i> , 2013, 67, 688-691.	1.2	2
64	Microplate-based method to screen inhibitors of isozymes of cyclic nucleotide phosphodiesterase fused to SUMO. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014, 29, 836-839.	2.5	2
65	Polyclonal Antibodies in Microplates to Predict the Maximum Adsorption Activities of Enzyme/Mutants from Cell Lysates. <i>Protein Journal</i> , 2017, 36, 212-219.	0.7	2
66	Data for ampholytic ion-exchange materials coated with small zwitterions for high-efficacy purification of ionizable soluble biomacromolecules. <i>Data in Brief</i> , 2018, 21, 709-720.	0.5	2
67	Comparison of the Immobilization of 6His-Tagged Proteins on Magnetic-Submicron-Particle Functionalized with Ni ²⁺ /Ni ²⁺ /Ni ²⁺ +NTA and Bis-Sulfone. <i>Nanoscience and Nanotechnology Letters</i> , 2015, 7, 486-494.	0.4	2
68	Site-Specific PEGylation of Therapeutic Proteins via Optimization of Both Accessible Reactive Amino Acid Residues and PEG Derivatives. <i>BioDrugs</i> , 2012, 26, 209-215.	2.2	2
69	Comparison of the Full-Length and 152~528 Truncate of Human Cyclic Nucleotide Phosphodiesterase 4B2 for the Characterization of Inhibitors. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2019, 22, 49-58.	0.6	2
70	Severe Cerebral Malaria with Dengue Coinfection: A Case Report. <i>Iranian Journal of Parasitology</i> , 2018, 13, 323-327.	0.6	2
71	Short divalent ethacrynic amides as pro-inhibitors of glutathione <i>S</i> -transferase isozyme Mu and potent sensitizers of cisplatin-resistant ovarian cancers. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2022, 37, 728-742.	2.5	2
72	A new linearly-combined bi-exponential model for kinetic analysis of the isometric relaxation process of <i>Bufo gastrocnemius</i> under electric stimulation in vitro. <i>Journal of Zhejiang University: Science B</i> , 2007, 8, 867-874.	1.3	1

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73	The Measurement of the Activity of Rabbit Muscle Lactic Dehydrogenase by Integrating the Classical Initial Rate Method with an Integrated Method. , 2008, , .		1
74	Striking Effects of Storage Buffers on Apparent Half-Lives of the Activity of Pseudomonas aeruginosa Arylsulfatase. Protein Journal, 2016, 35, 283-290.	0.7	1
75	Achievement of linear response for competitive bioaffinity assays of ligands: criteria of optimized interaction systems. RSC Advances, 2016, 6, 110858-110865.	1.7	1
76	Extracorporeal delivery of a therapeutic enzyme. Scientific Reports, 2016, 6, 30888.	1.6	1
77	High-throughput screening of enzyme mutants by comparison of their activity ratios to an enzyme tag. Analytical Biochemistry, 2020, 588, 113474.	1.1	1
78	Xylenol-orange-assay-of-hydrogen-peroxide for Measuring Uricase Activity and Recognizing High-activity Uricase Mutant. Ying Yong Yu Huan Jing Sheng Wu Xue Bao = Chinese Journal of Applied and Environmental Biology, 2013, 19, 523-527.	0.1	1
79	Kinetic Analyses of Enzyme Reaction Curves with New Integrated Rate Equations and Applications. , 0, , .		0
80	Data for high-throughput estimation of specific activities of enzyme/mutants in cell lysates through immunoturbidimetric assay of proteins. Data in Brief, 2017, 14, 220-245.	0.5	0
81	Data for high-throughput screening of enzyme mutants by comparison of their activity ratios to an enzyme tag. Data in Brief, 2020, 28, 104985.	0.5	0
82	Ion-exchange medium coated with abundant small zwitterions for the purification of soluble proteins. Preparative Biochemistry and Biotechnology, 2021, 51, 405-413.	1.0	0
83	Design of Bacillus fastidiosus Uricase Mutants Bearing Long Lagging Phases Before Exponential Decreases of Activities Under Physiological Conditions. Protein Journal, 2021, 40, 765-775.	0.7	0
84	Effects of Reaction Conditions on Interactions of Some Purine Derivatives with the Intracellular Uricase from <i>Bacillus fastidiosus</i>*. Ying Yong Yu Huan Jing Sheng Wu Xue Bao = Chinese Journal of Applied and Environmental Biology, 2011, 17, 91-94.	0.1	0
85	Assay of Adenylyl Cyclase Activity by Ion-exchange High-performance Liquid Chromatography. Sheng Wu Hua Xue Yu Sheng Wu Wu Li Xue Bao Acta Biochimica Et Biophysica Sinica, 2000, 32, 661-664.	0.1	0