Vitalia V Kulikova

List of Publications by Year
in descending order

24 papers	250 citations	933447 10 h-index	996975 15 g-index
24 all docs	24 docs citations	24 times ranked	176 citing authors

#	Article	IF	Citations
1	Kinetic and pharmacokinetic characteristics of therapeutic methinoninÐµ Î³-lyase encapsulated in polyion complex vesicles. Biochimie, 2022, 194, 13-18.	2.6	4
2	Characteristics and Stability Assessment of Therapeutic Methionine Î³-lyase-Loaded Polyionic Vesicles. ACS Omega, 2022, 7, 959-967.	3.5	4
3	O-acetylhomoserine sulfhydrylase from Clostridium novyi. Cloning, expression of the gene and characterization of the enzyme. Protein Expression and Purification, 2021, 180, 105810.	1.3	4
4	Sulfoxides of sulfur-containing amino acids are suicide substrates of Citrobacter freundii methionine Î³-lyase. Structural bases of the enzyme inactivation. Biochimie, 2020, 168, 190-197.	2.6	1
5	Encapsulated Methionine Î³-Lyase: Application in Enzyme Prodrug Therapy of <i>Pseudomonas aeruginosa</i> Infection. ACS Omega, 2020, 5, 7782-7786.	3.5	6
6	Identification ofOâ€•acetylhomoserine sulfhydrylase, a putative enzyme responsible for methionine biosynthesis inClostridioides difficile: Gene cloning and biochemical characterizations. IUBMB Life, 2019, 71, 1815-1823.	3.4	8
7	Methionine Î³-lyase in enzyme prodrug therapy: An improvement of pharmacokinetic parameters of the enzyme. International Journal of Biological Macromolecules, 2019, 140, 1277-1283.	7.5	10
8	Serine 51 residue of Citrobacter freundii tyrosine phenol-lyase assists in C-Î±-proton abstraction and transfer in the reaction with substrate. Biochimie, 2018, 147, 63-69.	2.6	5
9	Engineering methionine Î³-lyase from Citrobacter freundii for anticancer activity. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 1260-1270.	2.3	11
10	Non-stereoselective decomposition of (Â±)-S-alk(en)yl- l -cysteine sulfoxides to antibacterial thiosulfinates catalyzed by C115H mutant methionine Î³-lyase from Citrobacter freundii. Biochimie, 2018, 151, 42-44.	2.6	14
11	Soluble and Nanoporous Silica Gel-Entrapped <i>C. freundii</i> Methionine <i>Î³</i>-Lyase. Journal of Nanoscience and Nanotechnology, 2018, 18, 2210-2219.	0.9	8
12	Gene cloning, characterization, and cytotoxic activity of methionine Î³â€•lyase from <i>Clostridium novyi</i>. IUBMB Life, 2017, 69, 668-676.	3.4	12
13	Crystal structure of mutant form Cys115His of Citrobacter freundii methionine Î³-lyase complexed with l -norleucine. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 1123-1128.	2.3	4
14	Mutant form <scp>C</scp>115<scp>H</scp> of <scp><i>C</i></scp><i>lostridium sporogenes</i> methionine Î³â€•lyase efficiently cleaves <scp>S</scp>â€•Alk(en)ylâ€•<scp>l</scp>â€•cysteine sulfoxides to antibacterial thiosulfinates. IUBMB Life, 2016, 68, 830-835.	3.4	11
15	Engineered Citrobacter freundii methionine Î³-lyase effectively produces antimicrobial thiosulfinates. Biochimie, 2016, 128-129, 92-98.	2.6	23
16	Structure of methionine Î³-lyase from<i>Clostridium sporogenes</i>. Acta Crystallographica Section F, Structural Biology Communications, 2016, 72, 65-71.	0.8	9
17	Alliin is a suicide substrate of<i>Citrobacter freundii</i>methionine Î³-lyase: structural bases of inactivation of the enzyme. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 3034-3042.	2.5	16
18	Stereospecificity of isotopic exchange of C-Î±-protons of glycine catalyzed by three PLP-dependent lyases: the unusual case of tyrosine phenol-lyase. Amino Acids, 2011, 41, 1247-1256.	2.7	7

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19	Structures of Apo- and Holo-Tyrosine Phenol-lyase Reveal a Catalytically Critical Closed Conformation and Suggest a Mechanism for Activation by K+ Ions,. Biochemistry, 2006, 45, 7544-7552.	2.5	28
20	Tryptophanase from Proteus vulgaris: The conformational rearrangement in the active site, induced by the mutation of Tyrosine 72 to Phenylalanine, and its mechanistic consequences. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 750-757.	2.3	8
21	Aspartic acid 214 in Citrobacter freundii tyrosine phenol-lyase ensures sufficient Câ€“H-acidity of the external aldimine intermediate and proper orientation of the cofactor at the active site. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 1268-1276.	2.3	10
22	Role of Arginine 226 in the Mechanism of Tryptophan Indole-Lyase from Proteus vulgaris. Biochemistry (Moscow), 2003, 68, 1181-1188.	1.5	9
23	Role of Aspartate-133 and Histidine-458 in the Mechanism of Tryptophan Indole-Lyase fromProteus vulgarisâ€. Biochemistry, 2003, 42, 11161-11169.	2.5	19
24	Tryptophan indole-lyase from Proteus vulgaris: kinetic and spectral properties. Biochemistry (Moscow), 2002, 67, 1189-1196.	1.5	19