

Tomas Majtan

List of Publications by Year in descending order

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55
papers

1,626
citations

279798

23
h-index

315739

38
g-index

59
all docs

59
docs citations

59
times ranked

1742
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of Cystathionine Î²-Synthase Inhibitors Using a Hydrogen Sulfide Selective Probe. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4641-4644.	13.8	141
2	Cystathionine-Î²-synthase: Molecular Regulation and Pharmacological Inhibition. <i>Biomolecules</i> , 2020, 10, 697.	4.0	113
3	Effect of honey and its major royal jelly protein 1 on cytokine and MMP-9 mRNA transcripts in human keratinocytes. <i>Experimental Dermatology</i> , 2010, 19, e73-9.	2.9	96
4	Structural basis of regulation and oligomerization of human cystathionine Î²-synthase, the central enzyme of transsulfuration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3790-9.	7.1	89
5	Structural insight into the molecular mechanism of allosteric activation of human cystathionine Î²-synthase by S-adenosylmethionine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3845-52.	7.1	86
6	Human cystathionine Î²-synthase (CBS) contains two classes of binding sites for S-adenosylmethionine (SAM): complex regulation of CBS activity and stability by SAM. <i>Biochemical Journal</i> , 2013, 449, 109-121.	3.7	78
7	Fir honeydew honey flavonoids inhibit TNF-Î±-induced MMP-9 expression in human keratinocytes: a new action of honey in wound healing. <i>Archives of Dermatological Research</i> , 2013, 305, 619-627.	1.9	64
8	Rescue of Cystathionine Î²-Synthase (CBS) Mutants with Chemical Chaperones. <i>Journal of Biological Chemistry</i> , 2010, 285, 15866-15873.	3.4	63
9	Effect of cobalt on Escherichia coli metabolism and metalloporphyrin formation. <i>BioMetals</i> , 2011, 24, 335-347.	4.1	50
10	Active Cystathionine Î²-Synthase Can Be Expressed in Heme-free Systems in the Presence of Metal-substituted Porphyrins or a Chemical Chaperone. <i>Journal of Biological Chemistry</i> , 2008, 283, 34588-34595.	3.4	48
11	Biogenesis of Hydrogen Sulfide and Thioethers by Cystathionine Beta-Synthase. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 311-323.	5.4	47
12	Domain Organization, Catalysis and Regulation of Eukaryotic Cystathionine Beta-Synthases. <i>PLoS ONE</i> , 2014, 9, e105290.	2.5	42
13	Enzyme replacement with PEGylated cystathionine Î²-synthase ameliorates homocystinuria in murine model. <i>Journal of Clinical Investigation</i> , 2016, 126, 2372-2384.	8.2	37
14	Overproduction of hydrogen sulfide, generated by cystathionine Î²-synthase, disrupts brain wave patterns and contributes to neurobehavioral dysfunction in a rat model of down syndrome. <i>Redox Biology</i> , 2022, 51, 102233.	9.0	31
15	Targeting Cystathionine Beta-Synthase Misfolding in Homocystinuria by Small Ligands: State of the Art and Future Directions. <i>Current Drug Targets</i> , 2016, 17, 1455-1470.	2.1	30
16	Classical homocystinuria: From cystathionine beta-synthase deficiency to novel enzyme therapies. <i>Biochimie</i> , 2020, 173, 48-56.	2.6	29
17	Thioethers as markers of hydrogen sulfide production in homocystinurias. <i>Biochimie</i> , 2016, 126, 14-20.	2.6	28
18	Potential Pharmacological Chaperones for Cystathionine Beta-Synthase-Deficient Homocystinuria. <i>Handbook of Experimental Pharmacology</i> , 2017, 245, 345-383.	1.8	28

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19	Enzyme Replacement Therapy Ameliorates Multiple Symptoms of Murine Homocystinuria. <i>Molecular Therapy</i> , 2018, 26, 834-844.	8.2	28
20	Oligonucleotide microarray for molecular characterization and genotyping of <i>Salmonella</i> spp. strains. <i>Journal of Antimicrobial Chemotherapy</i> , 2007, 60, 937-946.	3.0	27
21	Folding and activity of mutant cystathionine β -synthase depends on the position and nature of the purification tag: Characterization of the R266K CBS mutant. <i>Protein Expression and Purification</i> , 2012, 82, 317-324.	1.3	26
22	Effect of the Disease-Causing R266K Mutation on the Heme and PLP Environments of Human Cystathionine β -Synthase. <i>Biochemistry</i> , 2012, 51, 6360-6370.	2.5	25
23	Conformational Properties of Nine Purified Cystathionine β -Synthase Mutants. <i>Biochemistry</i> , 2012, 51, 4755-4763.	2.5	24
24	Identification and characterisation of different proteases in <i>Lucilia sericata</i> medicinal maggots involved in maggot debridement therapy. <i>Journal of Applied Biomedicine</i> , 2014, 12, 171-177.	1.7	24
25	Enzyme replacement prevents neonatal death, liver damage, and osteoporosis in murine homocystinuria. <i>FASEB Journal</i> , 2017, 31, 5495-5506.	0.5	24
26	DNA microarrays – techniques and applications in microbial systems. <i>Folia Microbiologica</i> , 2004, 49, 635-64.	2.3	23
27	Kinetic stability of cystathionine beta-synthase can be modulated by structural analogs of S-adenosylmethionine: Potential approach to pharmacological chaperone therapy for homocystinuria. <i>Biochimie</i> , 2016, 126, 6-13.	2.6	23
28	DEER Distance Measurement Between a Spin Label and a Native FAD Semiquinone in Electron Transfer Flavoprotein. <i>Journal of the American Chemical Society</i> , 2009, 131, 15978-15979.	13.7	21
29	Marine natural products as inhibitors of cystathionine beta-synthase activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 1064-1066.	2.2	21
30	<i>Salmonella enterica</i> serovar Kentucky: antimicrobial resistance and molecular analysis of clinical isolates from the Slovak Republic. <i>Japanese Journal of Infectious Diseases</i> , 2006, 59, 358-62.	1.2	21
31	Cobalt Cystathionine β -Synthase: A Cobalt-Substituted Heme Protein with a Unique Thiolate Ligation Motif. <i>Inorganic Chemistry</i> , 2011, 50, 4417-4427.	4.0	17
32	Engineering and Characterization of an Enzyme Replacement Therapy for Classical Homocystinuria. <i>Biomacromolecules</i> , 2017, 18, 1747-1761.	5.4	16
33	Behavior, body composition, and vascular phenotype of homocystinuric mice on methionine-restricted diet or enzyme replacement therapy. <i>FASEB Journal</i> , 2019, 33, 12477-12486.	0.5	16
34	Comparative Study of Enzyme Activity and Heme Reactivity in <i>Drosophila melanogaster</i> and <i>Homo sapiens</i> Cystathionine β -Synthases. <i>Biochemistry</i> , 2013, 52, 741-751.	2.5	15
35	Import of TAT-Conjugated Propionyl Coenzyme A Carboxylase Using Models of Propionic Acidemia. <i>Molecular and Cellular Biology</i> , 2018, 38, .	2.3	15
36	Resistance of corynebacterial strains to infection and lysis by corynephage BFK 20. <i>Journal of Applied Microbiology</i> , 2005, 98, 184-192.	3.1	13

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37	Electron transfer flavoprotein domain II orientation monitored using double electron-electron resonance between an enzymatically reduced, native FAD cofactor, and spin labels. <i>Protein Science</i> , 2011, 20, 610-620.	7.6	13
38	Crystal structure of cystathionine β -synthase from honeybee <i>Apis mellifera</i> . <i>Journal of Structural Biology</i> , 2018, 202, 82-93.	2.8	13
39	Enzyme replacement therapy prevents loss of bone and fat mass in murine homocystinuria. <i>Human Mutation</i> , 2018, 39, 210-218.	2.5	13
40	Purification and characterization of cystathionine β -synthase bearing a cobalt protoporphyrin. <i>Archives of Biochemistry and Biophysics</i> , 2011, 508, 25-30.	3.0	12
41	Transcriptional profiling of bacteriophage BFK20: Coexpression interrogated by α -guilt-by-association algorithm. <i>Virology</i> , 2007, 359, 55-65.	2.4	11
42	The role of surface electrostatics on the stability, function and regulation of human cystathionine β -synthase, a complex multidomain and oligomeric protein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 1453-1462.	2.3	10
43	Purification, crystallization and preliminary crystallographic analysis of human cystathionine β -synthase. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1318-1322.	0.7	9
44	Oligomeric status of human cystathionine β -synthase modulates AdoMet binding. <i>FEBS Letters</i> , 2016, 590, 4461-4471.	2.8	8
45	Pharmacokinetics and pharmacodynamics of PEGylated truncated human cystathionine β -synthase for treatment of homocystinuria. <i>Life Sciences</i> , 2018, 200, 15-25.	4.3	7
46	Long-term uninterrupted enzyme replacement therapy prevents liver disease in murine model of severe homocystinuria. <i>Human Mutation</i> , 2020, 41, 1662-1670.	2.5	7
47	Interplay of Enzyme Therapy and Dietary Management of Murine Homocystinuria. <i>Nutrients</i> , 2020, 12, 2895.	4.1	6
48	Hypermethioninemia Leads to Fatal Bleeding and Increased Mortality in a Transgenic I278T Mouse Model of Homocystinuria. <i>Biomedicines</i> , 2020, 8, 244.	3.2	5
49	Detection of the Class 1 Integrons and SGI1 among <i>Salmonella enterica</i> Serovar Typhimurium DT104, U302, DT120, DT193, and Nontypable Human Isolates. <i>Japanese Journal of Infectious Diseases</i> , 2010, 63, 292-295.	1.2	5
50	Purification, crystallization and preliminary crystallographic analysis of the full-length cystathionine β -synthase from <i>Apis mellifera</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1323-1328.	0.7	3
51	Inherited disorders of sulfur amino acid metabolism: recent advances in therapy. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2021, 24, 62-70.	2.5	2
52	Molecular characterization of class 1 integrons in clinical strains of <i>Salmonella typhimurium</i> isolated in Slovakia. <i>Polish Journal of Microbiology</i> , 2007, 56, 19-23.	1.7	2
53	A key leader in homocystinuria research: Jan P. Kraus (1942-2019). <i>Human Mutation</i> , 2019, 40, 1909-1909.	2.5	1
54	Detection of the class 1 integrons and SGI1 among <i>Salmonella enterica</i> Serovar Typhimurium DT104, U302, DT120, DT193, and nontypable human isolates. <i>Japanese Journal of Infectious Diseases</i> , 2010, 63, 292-5.	1.2	1

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55	Purification, crystallization and preliminary crystallographic analysis of the catalytic core of cystathionine l ² -synthase from <i>Saccharomyces cerevisiae</i> . Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 320-325.	0.8	0