

Markos Koutmos

List of Publications by Year in descending order

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31
papers

1,410
citations

471509

17
h-index

454955

30
g-index

34
all docs

34
docs citations

34
times ranked

1622
citing authors

#	ARTICLE	IF	CITATIONS
1	Antivitamins B12: Synthesis and application as inhibitory ligand of the B12-tailoring enzyme CblC. <i>Methods in Enzymology</i> , 2022, 668, 157-178.	1.0	1
2	Pseudouridine synthase 7 is an opportunistic enzyme that binds and modifies substrates with diverse sequences and structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	21
3	Disease-associated mutations in mitochondrial precursor tRNAs affect binding, m1R9 methylation, and tRNA processing by mtRNase P. <i>Rna</i> , 2021, 27, 420-432.	3.5	9
4	Patient mutations in human ATP:cob(I)alamin adenosyltransferase differentially affect its catalytic versus chaperone functions. <i>Journal of Biological Chemistry</i> , 2021, 297, 101373.	3.4	3
5	Mobile loop dynamics in adenosyltransferase control binding and reactivity of coenzyme B ₁₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30412-30422.	7.1	18
6	An Interprotein Co ^S Coordination Complex in the B ₁₂ -Trafficking Pathway. <i>Journal of the American Chemical Society</i> , 2020, 142, 16334-16345.	13.7	20
7	The Photoactive Excited State of the B ₁₂ -Based Photoreceptor CarH. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10732-10738.	2.6	25
8	Interplay between substrate recognition, 5 [′] end tRNA processing and methylation activity of human mitochondrial RNase P. <i>Rna</i> , 2019, 25, 1646-1660.	3.5	21
9	Itaconyl-CoA forms a stable biradical in methylmalonyl-CoA mutase and derails its activity and repair. <i>Science</i> , 2019, 366, 589-593.	12.6	71
10	The folate-binding module of <i>Thermus thermophilus</i> cobalamin-dependent methionine synthase displays a distinct variation of the classical TIM barrel: a TIM barrel with a 'twist'. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 41-51.	2.3	5
11	Coordination chemistry controls the thiol oxidase activity of the B12-trafficking protein CblC. <i>Journal of Biological Chemistry</i> , 2017, 292, 9733-9744.	3.4	19
12	Antivitamin B ₁₂ Inhibition of the Human B ₁₂ Processing Enzyme CblC: Crystal Structure of an Inactive Ternary Complex with Glutathione as the Cosubstrate. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7387-7392.	13.8	30
13	Inhibierung des humanen B ₁₂ verarbeitenden Enzyms CblC durch Antivitamine... B ₁₂ Kristallstruktur des inaktiven ternären Komplexes mit dem Kosubstrat Glutathion. <i>Angewandte Chemie</i> , 2017, 129, 7493-7498.	2.0	6
14	Molecular recognition of pre-tRNA by <i>Arabidopsis</i> protein-only Ribonuclease P. <i>Rna</i> , 2017, 23, 1860-1873.	3.5	16
15	Loss of the mitochondrial protein-only ribonuclease P complex causes aberrant tRNA processing and lethality in <i>Drosophila</i> . <i>Nucleic Acids Research</i> , 2016, 44, 6409-6422.	14.5	32
16	Nuclear Protein-Only Ribonuclease P2 Structure and Biochemical Characterization Provide Insight into the Conserved Properties of tRNA 5 [′] End Processing Enzymes. <i>Journal of Molecular Biology</i> , 2016, 428, 26-40.	4.2	31
17	Differential substrate recognition by isozymes of plant protein-only Ribonuclease P. <i>Rna</i> , 2016, 22, 782-792.	3.5	26
18	Evolutionary Analyses and Natural Selection of Betaine-Homocysteine S-Methyltransferase (BHMT) and BHMT2 Genes. <i>PLoS ONE</i> , 2015, 10, e0134084.	2.5	13

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19	Structure of Human B12 Trafficking Protein CblD Reveals Molecular Mimicry and Identifies a New Subfamily of Nitro-FMN Reductases. <i>Journal of Biological Chemistry</i> , 2015, 290, 29155-29166.	3.4	25
20	Specific potassium ion interactions facilitate homocysteine binding to betaine-homocysteine S-methyltransferase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 2552-2564.	2.6	10
21	RNase P enzymes. <i>RNA Biology</i> , 2013, 10, 909-914.	3.1	36
22	Mitochondrial ribonuclease P structure provides insight into the evolution of catalytic strategies for precursor-tRNA 5' processing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16149-16154.	7.1	110
23	Structural Basis of Multifunctionality in a Vitamin B12-processing Enzyme. <i>Journal of Biological Chemistry</i> , 2011, 286, 29780-29787.	3.4	78
24	Structural basis for substrate activation and regulation by cystathionine beta-synthase (CBS) domains in cystathionine β -synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 20958-20963.	7.1	341
25	Insights into the reactivation of cobalamin-dependent methionine synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18527-18532.	7.1	86
26	Structure-Activity Study of New Inhibitors of Human Betaine-Homocysteine S-Methyltransferase. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 3652-3665.	6.4	10
27	Cobalamin-dependent and cobamide-dependent methyltransferases. <i>Current Opinion in Structural Biology</i> , 2008, 18, 658-666.	5.7	149
28	A disulfide-stabilized conformer of methionine synthase reveals an unexpected role for the histidine ligand of the cobalamin cofactor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4115-4120.	7.1	47
29	Betaine-Homocysteine S-Methyltransferase-2 Is an S-Methylmethionine-Homocysteine Methyltransferase. <i>Journal of Biological Chemistry</i> , 2008, 283, 8939-8945.	3.4	71
30	Metal active site elasticity linked to activation of homocysteine in methionine synthases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3286-3291.	7.1	56
31	Borohydride, Azide, and Chloride Anions As Terminal Ligands on Fe/Mo/S Clusters. Synthesis, Structure and Characterization of [(Cl ₄ -cat)(PPr ₃) ₂ MoFe ₃ S ₄ (X)] ₂ (Bu ₄ N) ₄ and [(Cl ₄ -cat)(PPr ₃) ₂ MoFe ₃ S ₄ (X)] ₂ (Bu ₄ N) ₂ (X = N ₃ ⁻ , BH ₄ ⁻ , Cl ⁻) Double-Fused Cubanes. NMR Reactivity Studies of [(Cl ₄ -cat)(PPr ₃) ₂ MoFe ₃ S ₄ (BH ₄) ₂](Bu ₄ N) ₄ . <i>Inorganic Chemistry</i> , 2006, 45, 3648-3656.	4.0	14