MiÅ‚osz Ruszkowski

List of Publications by Year
in descending order

33 papers	527 citations	623574 14 h-index	677027 22 g-index
35 all docs	35 docs citations	35 times ranked	641 citing authors

#	Article	IF	Citations
1	Structural insights into the RNA methyltransferase domain of METTL16. Scientific Reports, 2018, 8, 5311.	1.6	80
2	Structural Insights into Substrate Selectivity and Activity of Bacterial Polyphosphate Kinases. ACS Catalysis, 2018, 8, 10746-10760.	5.5	48
3	The structure of Medicago truncatula Î´1-pyrroline-5-carboxylate reductase provides new insights into regulation of proline biosynthesis in plants. Frontiers in Plant Science, 2015, 6, 869.	1.7	40
4	Functional properties and structural characterization of rice Î´1-pyrroline-5-carboxylate reductase. Frontiers in Plant Science, 2015, 6, 565.	1.7	31
5	Structural Studies of Glutamate Dehydrogenase (Isoform 1) From Arabidopsis thaliana, an Important Enzyme at the Branch-Point Between Carbon and Nitrogen Metabolism. Frontiers in Plant Science, 2020, 11, 754.	1.7	30
6	Specific binding of gibberellic acid by Cytokinin-Specific Binding Proteins: a new aspect of plant hormone-binding proteins with the PR-10 fold. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 2032-2041.	2.5	27
7	Structural Investigations of N-carbamoylputrescine Amidohydrolase from Medicago truncatula: Insights into the Ultimate Step of Putrescine Biosynthesis in Plants. Frontiers in Plant Science, 2016, 7, 350.	1.7	23
8	Evolution of plant Î´1-pyrroline-5-carboxylate reductases from phylogenetic and structural perspectives. Frontiers in Plant Science, 2015, 6, 567.	1.7	21
9	Structural Analysis of Phosphoserine Aminotransferase (Isoform 1) From Arabidopsis thalianaâ€“ the Enzyme Involved in the Phosphorylated Pathway of Serine Biosynthesis. Frontiers in Plant Science, 2018, 9, 876.	1.7	21
10	S-adenosylmethionine synthases in plants: Structural characterization of type I and II isoenzymes from Arabidopsis thaliana and Medicago truncatula. International Journal of Biological Macromolecules, 2020, 151, 554-565.	3.6	21
11	Structural Studies of Medicago truncatula Histidinol Phosphate Phosphatase from Inositol Monophosphatase Superfamily Reveal Details of Penultimate Step of Histidine Biosynthesis in Plants. Journal of Biological Chemistry, 2016, 291, 9960-9973.	1.6	19
12	Chloroplastic Serine Hydroxymethyltransferase From Medicago truncatula: A Structural Characterization. Frontiers in Plant Science, 2018, 9, 584.	1.7	18
13	The landscape of cytokinin binding by a plant nodulin. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 2365-2380.	2.5	16
14	On methyleneâ€bridged cysteine and lysine residues in proteins. Protein Science, 2016, 25, 1734-1736.	3.1	16
15	Molecular structure of a Uâ€¢A-U-rich RNA triple helix with 11 consecutive base triples. Nucleic Acids Research, 2020, 48, 3304-3314.	6.5	16
16	<i><scp>M</scp>edicagoÂtruncatula</i> histidineâ€containing phosphotransfer protein. FEBS Journal, 2013, 280, 3709-3720.	2.2	15
17	Base pairing, structural and functional insights into N4-methylcytidine (m4C) and N4,N4-dimethylcytidine (m42C) modified RNA. Nucleic Acids Research, 2020, 48, 10087-10100.	6.5	12
18	Structures of Medicago truncatula L-Histidinol Dehydrogenase Show Rearrangements Required for NAD+ Binding and the Cofactor Positioned to Accept a Hydride. Scientific Reports, 2017, 7, 10476.	1.6	11

#	Article	IF	Citations
19	Crystal structures of plant inorganic pyrophosphatase, an enzyme with a moonlighting autoproteolytic activity. Biochemical Journal, 2019, 476, 2297-2319.	1.7	10
20	Structural basis of methotrexate and pemetrexed action on serine hydroxymethyltransferases revealed using plant models. Scientific Reports, 2019, 9, 19614.	1.6	9
21	Structural and kinetic properties of serine hydroxymethyltransferase from the halophytic cyanobacterium Aphanothece halophytica provide a rationale for salt tolerance. International Journal of Biological Macromolecules, 2020, 159, 517-529.	3.6	7
22	Guarding the gateway to histidine biosynthesis in plants: <i>Medicago truncatula</i> ATP-phosphoribosyltransferase in relaxed and tense states. Biochemical Journal, 2018, 475, 2681-2697.	1.7	6
23	Structural and mechanistic insights into the bifunctional HISN2 enzyme catalyzing the second and third steps of histidine biosynthesis in plants. Scientific Reports, 2021, 11, 9647.	1.6	5
24	Cryo-EM reconstructions of BMV-derived virus-like particles reveal assembly defects in the icosahedral lattice structure. Nanoscale, 2022, 14, 3224-3233.	2.8	5
25	Comment on Wang's paper on the covalent Cysâ€Xâ€Lys bridges. Protein Science, 2019, 28, 470-471.	3.1	4
26	3D Domain Swapping Dimerization of the Receiver Domain of Cytokinin Receptor CRE1 From Arabidopsis thaliana and Medicago truncatula. Frontiers in Plant Science, 2021, 12, 756341.	1.7	3
27	Diastereoselective cycloaddition of bromonitrile oxide to sugar derived chiral alkenes. A possible route for the synthesis of higher deoxysugars. Arkivoc, 2009, 2009, 181-192.	0.3	3
28	Structural Insights Into the 5â€²UG/3â€²GU Wobble Tandem in Complex With Ba2+ Cation. Frontiers in Molecular Biosciences, 2021, 8, 762786.	1.6	3
29	Crystal structure of a PR-10 nodulin in complex with trans -zeatin. Biotechnologia, 2013, 1, 42-46.	0.3	2
30	Deciphering the structure of Arabidopsis thaliana 5-enol-pyruvyl-shikimate-3-phosphate synthase: An essential step toward the discovery of novel inhibitors to supersede glyphosate. Computational and Structural Biotechnology Journal, 2022, 20, 1494-1505.	1.9	2
31	Serendipitous crystallization of E. coli HPII catalase, a sequel to â€œthe tale usually not toldâ€. Acta Biochimica Polonica, 2021, 68, 29-31.	0.3	1
32	Peculiar substrate specificity of Î´1-pyrroline-5-carboxylate reductase in the obligately fermentative bacterium Zymomonas mobilis. Molecular Biology Reports, 2021, 48, 6205-6211.	1.0	1
33	New insights into the signaling and function of cytokinins in higher plants. Biotechnologia, 2012, 4, 400-413.	0.3	1