Monika Tokmina-Lukaszewska

List of Publications by Year
in descending order

24 papers	944 citations	567281 15 h-index	610901 24 g-index
25 all docs	25 docs citations	25 times ranked	1036 citing authors

#	Article	IF	Citations
1	The Electron Bifurcating FixABCX Protein Complex from Azotobacter vinelandii: Generation of Low-Potential Reducing Equivalents for Nitrogenase Catalysis. Biochemistry, 2017, 56, 4177-4190.	2.5	140
2	Mechanistic insights into energy conservation by flavin-based electron bifurcation. Nature Chemical Biology, 2017, 13, 655-659.	8.0	121
3	Evidence That the P_i Release Event Is the Rate-Limiting Step in the Nitrogenase Catalytic Cycle. Biochemistry, 2016, 55, 3625-3635.	2.5	95
4	Mechanism of N₂ Reduction Catalyzed by Fe-Nitrogenase Involves Reductive Elimination of H₂. Biochemistry, 2018, 57, 701-710.	2.5	80
5	Unification of [FeFe]-hydrogenases into three structural and functional groups. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 1910-1921.	2.4	76
6	Two functionally distinct NADP+-dependent ferredoxin oxidoreductases maintain the primary redox balance of Pyrococcus furiosus. Journal of Biological Chemistry, 2017, 292, 14603-14616.	3.4	54
7	A new era for electron bifurcation. Current Opinion in Chemical Biology, 2018, 47, 32-38.	6.1	54
8	The CRISPR RNA-guided surveillance complex inEscherichia coliaccommodates extended RNA spacers. Nucleic Acids Research, 2016, 44, gkw421.	14.5	42
9	H/D exchange mass spectrometry and statistical coupling analysis reveal a role for allostery in a ferredoxin-dependent bifurcating transhydrogenase catalytic cycle. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 9-17.	2.4	38
10	Altered stoichiometryEscherichia coliCascade complexes with shortened CRISPR RNA spacers are capable of interference and primed adaptation. Nucleic Acids Research, 2016, 44, 10849-10861.	14.5	37
11	Application of support vector machines to metabolomics experiments with limited replicates. Metabolomics, 2014, 10, 1121-1128.	3.0	36
12	The catalytic mechanism of electron-bifurcating electron transfer flavoproteins (ETFs) involves an intermediary complex with NAD+. Journal of Biological Chemistry, 2019, 294, 3271-3283.	3.4	30
13	Distinct properties underlie flavin-based electron bifurcation in a novel electron transfer flavoprotein FixAB from Rhodopseudomonas palustris. Journal of Biological Chemistry, 2018, 293, 4688-4701.	3.4	22
14	The oxygen reduction reaction catalyzed by Synechocystis sp. PCC 6803 flavodiiron proteins. Sustainable Energy and Fuels, 2019, 3, 3191-3200.	4.9	22
15	Unraveling the interactions of the physiological reductant flavodoxin with the different conformations of the Fe protein in the nitrogenase cycle. Journal of Biological Chemistry, 2017, 292, 15661-15669.	3.4	21
16	Time-resolved Studies of IsdG Protein Identify Molecular Signposts along the Non-canonical Heme Oxygenase Pathway. Journal of Biological Chemistry, 2016, 291, 862-871.	3.4	19
17	Metabolic response of Agrobacterium tumefaciens 5A to arsenite. Environmental Microbiology, 2017, 19, 710-721.	3.8	15
18	The structure and reactivity of the HoxEFU complex from the cyanobacterium Synechocystis sp. PCC 6803. Journal of Biological Chemistry, 2020, 295, 9445-9454.	3.4	15

#	Article	IF	Citations
19	The Role of Mass Spectrometry in Structural Studies of Flavin-Based Electron Bifurcating Enzymes. Frontiers in Microbiology, 2018, 9, 1397.	3.5	8
20	Mechanical coupling in the nitrogenase complex. PLoS Computational Biology, 2021, 17, e1008719.	3.2	8
21	Bovine serum albumin as a molecular sensor for the discrimination of complex metabolite samples. Analytica Chimica Acta, 2014, 818, 61-66.	5.4	5
22	Probing Cascade complex composition and stability using native mass spectrometry techniques. Methods in Enzymology, 2019, 616, 87-116.	1.0	4
23	Metabolic Responses to Arsenite Exposure Regulated through Histidine Kinases PhoR and AioS in Agrobacterium tumefaciens 5A. Microorganisms, 2020, 8, 1339.	3.6	1
24	Scanning Probe Microscopy of Serpin Polymers. Biophysical Journal, 2012, 102, 589a.	0.5	0