

Tzanko I Doukov

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

1,512
citations

17
h-index

38
g-index

55
ext. papers

1,806
ext. citations

9.2
avg, IF

4.2
L-index

#	Paper	IF	Citations
47	A Ni-Fe-Cu center in a bifunctional carbon monoxide dehydrogenase/acetyl-CoA synthase. <i>Science</i> , 2002 , 298, 567-72	33.3	440
46	The metalloclusters of carbon monoxide dehydrogenase/acetyl-CoA synthase: a story in pictures. <i>Journal of Biological Inorganic Chemistry</i> , 2004 , 9, 511-5	3.7	100
45	Xenon in and at the end of the tunnel of bifunctional carbon monoxide dehydrogenase/acetyl-CoA synthase. <i>Biochemistry</i> , 2008 , 47, 3474-83	3.2	93
44	alpha-fluorinated phosphonates as substrate mimics for glucose 6-phosphate dehydrogenase: the CHF stereochemistry matters. <i>Journal of Organic Chemistry</i> , 2000 , 65, 4498-508	4.2	89
43	Crystallographic and single-crystal spectral analysis of the peroxidase ferryl intermediate. <i>Biochemistry</i> , 2010 , 49, 2984-6	3.2	71
42	Crystallographic snapshots of cyanide- and water-bound C-clusters from bifunctional carbon monoxide dehydrogenase/acetyl-CoA synthase. <i>Biochemistry</i> , 2009 , 48, 7432-40	3.2	62
41	Crystal structure of a methyltetrahydrofolate- and corrinoid-dependent methyltransferase. <i>Structure</i> , 2000 , 8, 817-30	5.2	62
40	Structural and functional analysis of the human POT1-TPP1 telomeric complex. <i>Nature Communications</i> , 2017 , 8, 14928	17.4	58
39	Crystal structure of the pristine peroxidase ferryl center and its relevance to proton-coupled electron transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 1226-31	11.5	55
38	Visualizing molecular juggling within a B12-dependent methyltransferase complex. <i>Nature</i> , 2012 , 484, 265-9	50.4	54
37	Combined microspectrophotometric and crystallographic examination of chemically reduced and X-ray radiation-reduced forms of cytochrome ba3 oxidase from <i>Thermus thermophilus</i> : structure of the reduced form of the enzyme. <i>Biochemistry</i> , 2009 , 48, 820-6	3.2	45
36	Structural and kinetic evidence for an extended hydrogen-bonding network in catalysis of methyl group transfer. Role of an active site asparagine residue in activation of methyl transfer by methyltransferases. <i>Journal of Biological Chemistry</i> , 2007 , 282, 6609-6618	5.4	36
35	CprK crystal structures reveal mechanism for transcriptional control of halorespiration. <i>Journal of Biological Chemistry</i> , 2006 , 281, 28318-25	5.4	29
34	Structure and function of P19, a high-affinity iron transporter of the human pathogen <i>Campylobacter jejuni</i> . <i>Journal of Molecular Biology</i> , 2010 , 401, 590-604	6.5	28
33	Crystal structure of murine 4-1BB and its interaction with 4-1BBL support a role for galectin-9 in 4-1BB signaling. <i>Journal of Biological Chemistry</i> , 2018 , 293, 1317-1329	5.4	24
32	Structural Coupling Throughout the Active Site Hydrogen Bond Networks of Ketosteroid Isomerase and Photoactive Yellow Protein. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9827-9843	16.4	23
31	Heme-coordinating inhibitors of neuronal nitric oxide synthase. Iron-thioether coordination is stabilized by hydrophobic contacts without increased inhibitor potency. <i>Journal of the American Chemical Society</i> , 2010 , 132, 798-806	16.4	18

30	Differential catalytic promiscuity of the alkaline phosphatase superfamily bimetallo core reveals mechanistic features underlying enzyme evolution. <i>Journal of Biological Chemistry</i> , 2017 , 292, 20960-20974	5.4	17
29	Single crystal structural and absorption spectral characterizations of nitric oxide synthase complexed with N(omega)-hydroxy-L-arginine and diatomic ligands. <i>Biochemistry</i> , 2009 , 48, 10246-54	3.2	17
28	Crystal structures of the human 4-1BB receptor bound to its ligand 4-1BBL reveal covalent receptor dimerization as a potential signaling amplifier. <i>Journal of Biological Chemistry</i> , 2018 , 293, 9958-9969	5.4	16
27	Structural changes that occur upon photolysis of the Fe(II)(a3)-CO complex in the cytochrome ba(3)-oxidase of <i>Thermus thermophilus</i> : a combined X-ray crystallographic and infrared spectral study demonstrates CO binding to Cu(B). <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012 , 1817, 658-65	4.6	15
26	Crystal structure of the <i>Leishmania major</i> peroxidase-cytochrome c complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 18390-4	11.5	14
25	Remote access to crystallography beamlines at SSRL: novel tools for training, education and collaboration. <i>Journal of Applied Crystallography</i> , 2010 , 43, 1261-1270	3.8	14
24	Temperature-dependent spin crossover in neuronal nitric oxide synthase bound with the heme-coordinating thioether inhibitors. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8326-34	16.4	13
23	Assessment of enzyme active site positioning and tests of catalytic mechanisms through X-ray-derived conformational ensembles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 33204-33215	11.5	13
22	Structural basis for hydration dynamics in radical stabilization of bilin reductase mutants. <i>Biochemistry</i> , 2010 , 49, 6206-18	3.2	12
21	Parallel molecular mechanisms for enzyme temperature adaptation. <i>Science</i> , 2021 , 371,	33.3	11
20	Redox, haem and CO in enzymatic catalysis and regulation. <i>Biochemical Society Transactions</i> , 2012 , 40, 501-7	5.1	10
19	Regulation of the intersubunit ammonia tunnel in <i>Mycobacterium tuberculosis</i> glutamine-dependent NAD ⁺ synthetase. <i>Biochemical Journal</i> , 2012 , 443, 417-26	3.8	10
18	Crystal structure of the m4-1BB/4-1BBL complex reveals an unusual dimeric ligand that undergoes structural changes upon 4-1BB receptor binding. <i>Journal of Biological Chemistry</i> , 2019 , 294, 1831-1845	5.4	10
17	Structure and Function of a Novel ATPase that Interacts with Holliday Junction Resolvase Hjc and Promotes Branch Migration. <i>Journal of Molecular Biology</i> , 2017 , 429, 1009-1029	6.5	8
16	Structure, Function, and Dynamics of the G β Binding Domain of Ric-8A. <i>Structure</i> , 2019 , 27, 1137-1147.e5	5.2	8
15	UV-Visible Absorption Spectroscopy Enhanced X-ray Crystallography at Synchrotron and X-ray Free Electron Laser Sources. <i>Protein and Peptide Letters</i> , 2016 , 23, 283-90	1.9	7
14	Different ways to transport ammonia in human and <i>Mycobacterium tuberculosis</i> NAD synthetases. <i>Nature Communications</i> , 2020 , 11, 16	17.4	6
13	Structure of the G protein chaperone and guanine nucleotide exchange factor Ric-8A bound to G β 1. <i>Nature Communications</i> , 2020 , 11, 1077	17.4	5

12	Structure of human cytomegalovirus UL144, an HVEM orthologue, bound to the B and T cell lymphocyte attenuator. <i>Journal of Biological Chemistry</i> , 2019 , 294, 10519-10529	5.4	4
11	A Robust Method for Collecting X-ray Diffraction Data from Protein Crystals across Physiological Temperatures		
10	Correction to "Temperature-Dependent Spin Crossover in Neuronal Nitric Oxide Synthase Bound with the Heme-Coordinating Thioether Inhibitors" <i>Journal of the American Chemical Society</i> , 2013 , 135, 7080-7080	16.4	2
9	Instrumentation and experimental procedures for robust collection of X-ray diffraction data from protein crystals across physiological temperatures. <i>Journal of Applied Crystallography</i> , 2020 , 53, 1493-1501	3.8	2
8	Discovery of a Biological Organometallic Reaction Sequence Involving Vitamin B12 2007 , 167-177		1
7	Cooperative allostery and structural dynamics of streptavidin at cryogenic- and ambient-temperature.. <i>Communications Biology</i> , 2022 , 5, 73	6.7	1
6	Design principles for site-selective hydroxylation by a Rieske oxygenase.. <i>Nature Communications</i> , 2022 , 13, 255	17.4	1
5	Assessment of enzyme active site positioning and tests of catalytic mechanisms through X-ray-derived conformational ensembles		1
4	Structural adaptation of oxygen tolerance in 4-hydroxybutyryl-CoA dehydratase, a key enzyme of archaeal carbon fixation		1
3	Structure-function characterization of three human antibodies targeting the vaccinia virus adhesion molecule D8. <i>Journal of Biological Chemistry</i> , 2018 , 293, 390-401	5.4	1
2	Crystals of TELSAM-target protein fusions that exhibit minimal crystal contacts and lack direct inter-TELSAM contacts.. <i>Open Biology</i> , 2022 , 12, 210271	7	1
1	Crystallographic snapshots of metalloenzyme complexes involved in biological carbon dioxide sequestration. <i>FASEB Journal</i> , 2013 , 27, 98.3	0.9	