

# Tzanko I Doukov

## List of Publications by Year in Descending Order

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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	Cooperative allostery and structural dynamics of streptavidin at cryogenic- and ambient-temperature.. <i>Communications Biology</i> , <b>2022</b> , 5, 73	6.7	1
46	Design principles for site-selective hydroxylation by a Rieske oxygenase.. <i>Nature Communications</i> , <b>2022</b> , 13, 255	17.4	1
45	Crystals of TELSAM-target protein fusions that exhibit minimal crystal contacts and lack direct inter-TELSAM contacts.. <i>Open Biology</i> , <b>2022</b> , 12, 210271	7	1
44	Parallel molecular mechanisms for enzyme temperature adaptation. <i>Science</i> , <b>2021</b> , 371,	33.3	11
43	Structure of the G protein chaperone and guanine nucleotide exchange factor Ric-8A bound to Gβ1. <i>Nature Communications</i> , <b>2020</b> , 11, 1077	17.4	5
42	Instrumentation and experimental procedures for robust collection of X-ray diffraction data from protein crystals across physiological temperatures. <i>Journal of Applied Crystallography</i> , <b>2020</b> , 53, 1493-1501	3.8	2
41	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> , <b>2020</b> , 117, 33204-33215	11.5	13
40	Different ways to transport ammonia in human and Mycobacterium tuberculosis NAD synthetases. <i>Nature Communications</i> , <b>2020</b> , 11, 16	17.4	6
39	Structure, Function, and Dynamics of the GIBinding Domain of Ric-8A. <i>Structure</i> , <b>2019</b> , 27, 1137-1147.e5	5.2	8
38	Structure of human cytomegalovirus UL144, an HVEM orthologue, bound to the B and T cell lymphocyte attenuator. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 10519-10529	5.4	4
37	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> , <b>2019</b> , 294, 1831-1845	5.4	10
36	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> , <b>2018</b> , 293, 9958-9969	5.4	16
35	Structural Coupling Throughout the Active Site Hydrogen Bond Networks of Ketosteroid Isomerase and Photoactive Yellow Protein. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9827-9843	16.4	23
34	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> , <b>2018</b> , 293, 1317-1329	5.4	24
33	Structure-function characterization of three human antibodies targeting the vaccinia virus adhesion molecule D8. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 390-401	5.4	1
32	Structure and Function of a Novel ATPase that Interacts with Holliday Junction Resolvase Hjc and Promotes Branch Migration. <i>Journal of Molecular Biology</i> , <b>2017</b> , 429, 1009-1029	6.5	8
31	Structural and functional analysis of the human POT1-TPP1 telomeric complex. <i>Nature Communications</i> , <b>2017</b> , 8, 14928	17.4	58

30	Differential catalytic promiscuity of the alkaline phosphatase superfamily bimetallo core reveals mechanistic features underlying enzyme evolution. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 20960-20974	5.4	17
29	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> , <b>2016</b> , 113, 1226-31	11.5	55
28	UV-Visible Absorption Spectroscopy Enhanced X-ray Crystallography at Synchrotron and X-ray Free Electron Laser Sources. <i>Protein and Peptide Letters</i> , <b>2016</b> , 23, 283-90	1.9	7
27	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> , <b>2013</b> , 135, 7080-7080	16.4	2
26	Crystallographic snapshots of metalloenzyme complexes involved in biological carbon dioxide sequestration. <i>FASEB Journal</i> , <b>2013</b> , 27, 98.3	0.9	
25	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> , <b>2012</b> , 1817, 658-65	4.6	15
24	Redox, haem and CO in enzymatic catalysis and regulation. <i>Biochemical Society Transactions</i> , <b>2012</b> , 40, 501-7	5.1	10
23	Visualizing molecular juggling within a B12-dependent methyltransferase complex. <i>Nature</i> , <b>2012</b> , 484, 265-9	50.4	54
22	Regulation of the intersubunit ammonia tunnel in <i>Mycobacterium tuberculosis</i> glutamine-dependent NAD <sup>+</sup> synthetase. <i>Biochemical Journal</i> , <b>2012</b> , 443, 417-26	3.8	10
21	Crystal structure of the <i>Leishmania</i> major peroxidase-cytochrome c complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 18390-4	11.5	14
20	Temperature-dependent spin crossover in neuronal nitric oxide synthase bound with the heme-coordinating thioether inhibitors. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 8326-34	16.4	13
19	Structural basis for hydration dynamics in radical stabilization of bilin reductase mutants. <i>Biochemistry</i> , <b>2010</b> , 49, 6206-18	3.2	12
18	Crystallographic and single-crystal spectral analysis of the peroxidase ferryl intermediate. <i>Biochemistry</i> , <b>2010</b> , 49, 2984-6	3.2	71
17	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> , <b>2010</b> , 132, 798-806	16.4	18
16	Structure and function of P19, a high-affinity iron transporter of the human pathogen <i>Campylobacter jejuni</i> . <i>Journal of Molecular Biology</i> , <b>2010</b> , 401, 590-604	6.5	28
15	Remote access to crystallography beamlines at SSRL: novel tools for training, education and collaboration. <i>Journal of Applied Crystallography</i> , <b>2010</b> , 43, 1261-1270	3.8	14
14	Single crystal structural and absorption spectral characterizations of nitric oxide synthase complexed with N(omega)-hydroxy-L-arginine and diatomic ligands. <i>Biochemistry</i> , <b>2009</b> , 48, 10246-54	3.2	17
13	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> , <b>2009</b> , 48, 820-6	3.2	45

12	Crystallographic snapshots of cyanide- and water-bound C-clusters from bifunctional carbon monoxide dehydrogenase/acetyl-CoA synthase. <i>Biochemistry</i> , <b>2009</b> , 48, 7432-40	3.2	62
11	Xenon in and at the end of the tunnel of bifunctional carbon monoxide dehydrogenase/acetyl-CoA synthase. <i>Biochemistry</i> , <b>2008</b> , 47, 3474-83	3.2	93
10	Discovery of a Biological Organometallic Reaction Sequence Involving Vitamin B12 <b>2007</b> , 167-177		1
9	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> , <b>2007</b> , 282, 6609-6618	5.4	36
8	CprK crystal structures reveal mechanism for transcriptional control of halorespiration. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 28318-25	5.4	29
7	The metalloclusters of carbon monoxide dehydrogenase/acetyl-CoA synthase: a story in pictures. <i>Journal of Biological Inorganic Chemistry</i> , <b>2004</b> , 9, 511-5	3.7	100
6	A Ni-Fe-Cu center in a bifunctional carbon monoxide dehydrogenase/acetyl-CoA synthase. <i>Science</i> , <b>2002</b> , 298, 567-72	33.3	44 <sup>0</sup>
5	Crystal structure of a methyltetrahydrofolate- and corrinoid-dependent methyltransferase. <i>Structure</i> , <b>2000</b> , 8, 817-30	5.2	62
4	alpha-fluorinated phosphonates as substrate mimics for glucose 6-phosphate dehydrogenase: the CHF stereochemistry matters. <i>Journal of Organic Chemistry</i> , <b>2000</b> , 65, 4498-508	4.2	89
3	Assessment of enzyme active site positioning and tests of catalytic mechanisms through X-ray-derived conformational ensembles		1
2	Structural adaptation of oxygen tolerance in 4-hydroxybutyryl-CoA dehydratase, a key enzyme of archaeal carbon fixation		1
1	A Robust Method for Collecting X-ray Diffraction Data from Protein Crystals across Physiological Temperatures		