

# Mikhail Kudryashev

## List of Publications by Year in descending order

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53  
papers

3,388  
citations

172207

29  
h-index

182168

51  
g-index

57  
all docs

57  
docs citations

57  
times ranked

4295  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamo: A flexible, user-friendly development tool for subtomogram averaging of cryo-EM data in high-performance computing environments. <i>Journal of Structural Biology</i> , 2012, 178, 139-151.	1.3	376
2	Structure of the Type VI Secretion System Contractile Sheath. <i>Cell</i> , 2015, 160, 952-962.	13.5	216
3	Molecular assembly of the aerolysin pore reveals a swirling membrane-insertion mechanism. <i>Nature Chemical Biology</i> , 2013, 9, 623-629.	3.9	183
4	De novo protein structure determination from near-atomic-resolution cryo-EM maps. <i>Nature Methods</i> , 2015, 12, 335-338.	9.0	172
5	Interaction of complexes I, III, and IV within the bovine respirasome by single particle cryoelectron tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15196-15200.	3.3	170
6	Plasmodium Sporozoite Motility Is Modulated by the Turnover of Discrete Adhesion Sites. <i>Cell Host and Microbe</i> , 2009, 6, 551-562.	5.1	163
7	Curvature induction and membrane remodeling by FAM134B reticulon homology domain assist selective ER-phagy. <i>Nature Communications</i> , 2019, 10, 2370.	5.8	147
8	Luminal particles within cellular microtubules. <i>Journal of Cell Biology</i> , 2006, 174, 759-765.	2.3	111
9	In situ structural analysis of the <i>Yersinia enterocolitica</i> injectisome. <i>ELife</i> , 2013, 2, e00792.	2.8	109
10	Dynamo Catalogue: Geometrical tools and data management for particle picking in subtomogram averaging of cryo-electron tomograms. <i>Journal of Structural Biology</i> , 2017, 197, 135-144.	1.3	108
11	Cryo-EM structure of the extended type VI secretion system sheathâ€“tube complex. <i>Nature Microbiology</i> , 2017, 2, 1507-1512.	5.9	107
12	Composition, Formation, and Regulation of the Cytosolic C-ring, a Dynamic Component of the Type III Secretion Injectisome. <i>PLoS Biology</i> , 2015, 13, e1002039.	2.6	98
13	Structure of a bacterial type III secretion system in contact with a host membrane in situ. <i>Nature Communications</i> , 2015, 6, 10114.	5.8	92
14	Cryoelectron tomography reveals periodic material at the inner side of subpellicular microtubules in apicomplexan parasites. <i>Journal of Experimental Medicine</i> , 2007, 204, 1281-1287.	4.2	86
15	Structure and assembly of the mitochondrial membrane remodelling GTPase Mgm1. <i>Nature</i> , 2019, 571, 429-433.	13.7	86
16	Electron tomography of <i>Plasmodium falciparum</i> merozoites reveals core cellular events that underpin erythrocyte invasion. <i>Cellular Microbiology</i> , 2013, 15, 1457-1472.	1.1	82
17	<i>Clostridium difficile</i> toxin CDT hijacks microtubule organization and reroutes vesicle traffic to increase pathogen adherence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2313-2318.	3.3	78
18	Positioning of large organelles by a membrane-associated cytoskeleton in <i>Plasmodium</i> sporozoites. <i>Cellular Microbiology</i> , 2010, 12, 362-371.	1.1	74

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19	Comparative cryo-electron tomography of pathogenic Lyme disease spirochetes. <i>Molecular Microbiology</i> , 2009, 71, 1415-1434.	1.2	73
20	Automated classification of <i>Plasmodium</i> sporozoite movement patterns reveals a shift towards productive motility during salivary gland infection. <i>Biotechnology Journal</i> , 2009, 4, 903-913.	1.8	63
21	Membrane vesicle secretion and prophage induction in multidrug-resistant <i>Stenotrophomonas maltophilia</i> in response to ciprofloxacin stress. <i>Environmental Microbiology</i> , 2017, 19, 3930-3937.	1.8	60
22	Structural basis for chirality and directional motility of <i>Plasmodium</i> sporozoites. <i>Cellular Microbiology</i> , 2012, 14, 1757-1768.	1.1	58
23	Environmental Constraints Guide Migration of Malaria Parasites during Transmission. <i>PLoS Pathogens</i> , 2011, 7, e1002080.	2.1	57
24	Distinct in situ structures of the <i>Borrelia</i> flagellar motor. <i>Journal of Structural Biology</i> , 2010, 169, 54-61.	1.3	49
25	Cryo-electron tomography reveals four-membrane architecture of the <i>Plasmodium</i> apicoplast. <i>Malaria Journal</i> , 2013, 12, 25.	0.8	44
26	Subnanometer-resolution structure determination in situ by hybrid subtomogram averaging - single particle cryo-EM. <i>Nature Communications</i> , 2020, 11, 3709.	5.8	44
27	Asymmetric opening of the homopentameric 5-HT <sub>3A</sub> serotonin receptor in lipid bilayers. <i>Nature Communications</i> , 2021, 12, 1074.	5.8	41
28	Subtomogram averaging from cryo-electron tomograms. <i>Methods in Cell Biology</i> , 2019, 152, 217-259.	0.5	38
29	Geometric constrains for detecting short actin filaments by cryogenic electron tomography. <i>PMC Biophysics</i> , 2010, 3, 6.	2.2	37
30	The Structure of the Mouse Serotonin 5-HT <sub>3</sub> Receptor in Lipid Vesicles. <i>Structure</i> , 2016, 24, 165-170.	1.6	36
31	Structure of the Dodecameric <i>Yersinia enterocolitica</i> Secretin YscC and Its Trypsin-Resistant Core. <i>Structure</i> , 2013, 21, 2152-2161.	1.6	33
32	Structure of RyR1 in native membranes. <i>EMBO Reports</i> , 2020, 21, e49891.	2.0	32
33	<i>Yersinia enterocolitica</i> type III secretion injectisomes form regularly spaced clusters, which incorporate new machines upon activation. <i>Molecular Microbiology</i> , 2015, 95, 875-884.	1.2	30
34	LIMITING FACTORS IN SINGLE PARTICLE CRYO ELECTRON TOMOGRAPHY. <i>Computational and Structural Biotechnology Journal</i> , 2012, 1, e201207002.	1.9	28
35	Structure of the <i>Yersinia</i> injectisome in intracellular host cell phagosomes revealed by cryo FIB electron tomography. <i>Journal of Structural Biology</i> , 2021, 213, 107701.	1.3	28
36	Key factors regulating <i>Plasmodium berghei</i> sporozoite survival and transformation revealed by an automated visual assay. <i>FASEB Journal</i> , 2010, 24, 5003-5012.	0.2	20

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37	Nuclear Pore Complex Components in the Malaria Parasite <i>Plasmodium berghei</i> . <i>Scientific Reports</i> , 2018, 8, 11249.	1.6	19
38	Evidence of direct cell-cell fusion in <i>Borrelia</i> by cryogenic electron tomography. <i>Cellular Microbiology</i> , 2011, 13, 731-741.	1.1	18
39	Improving the quality of electron tomography image volumes using pre-reconstruction filtering. <i>Journal of Structural Biology</i> , 2012, 180, 132-142.	1.3	16
40	Structure of the merozoite surface protein 1 from <i>Plasmodium falciparum</i> . <i>Science Advances</i> , 2021, 7, .	4.7	15
41	The ultrastructure of <i>Chlorobaculum tepidum</i> revealed by cryo-electron tomography. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1635-1642.	0.5	14
42	Structural basis of phosphatidylinositol 3-kinase C2 $\beta$ function. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 218-228.	3.6	14
43	Recent progress in structure and dynamics of dual-membrane-spanning bacterial nanomachines. <i>Current Opinion in Structural Biology</i> , 2016, 39, 1-7.	2.6	13
44	Key factors regulating <i>Plasmodium berghei</i> sporozoite survival and transformation revealed by an automated visual assay. <i>FASEB Journal</i> , 2010, 24, 5003-5012.	0.2	11
45	Functional insights into pathogen biology from 3D electron microscopy. <i>FEMS Microbiology Reviews</i> , 2017, 41, 828-853.	3.9	10
46	Assessing the benefits of focal pair cryo-electron tomography. <i>Journal of Structural Biology</i> , 2012, 178, 88-97.	1.3	8
47	KAHRP dynamically relocates to remodeled actin junctions and associates with knob spirals in <i>Plasmodium falciparum</i> -infected erythrocytes. <i>Molecular Microbiology</i> , 2022, 117, 274-292.	1.2	7
48	Resolution in Electron Tomography. <i>Biological and Medical Physics Series</i> , 2018, , 261-282.	0.3	5
49	Fast Cross Correlation for Limited Angle Tomographic Data. <i>Lecture Notes in Computer Science</i> , 2019, , 415-426.	1.0	4
50	Fast Alignment of Limited Angle Tomograms by projected Cross Correlation. , 2019, , .		3
51	Special: Biotech in Russia. <i>Biotechnology Journal</i> , 2007, 2, 775-789.	1.8	1
52	Cryo-Electron Tomography of Malaria Parasites. <i>Microscopy and Microanalysis</i> , 2009, 15, 864-865.	0.2	0
53	Imaging Motile Pathogens by Light microscopy and Cryo-electron Tomography. <i>Microscopy and Microanalysis</i> , 2009, 15, 80-81.	0.2	0