

Alexey Amunts

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

3,842
citations

218677
26
h-index

265206
42
g-index

113
all docs

113
docs citations

113
times ranked

4220
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of the Yeast Mitochondrial Large Ribosomal Subunit. Science, 2014, 343, 1485-1489.	12.6	521
2	The structure of a plant photosystem I supercomplex at 3.4Å resolution. Nature, 2007, 447, 58-63.	27.8	443
3	The structure of the human mitochondrial ribosome. Science, 2015, 348, 95-98.	12.6	432
4	Structure of the large ribosomal subunit from human mitochondria. Science, 2014, 346, 718-722.	12.6	260
5	Structure Determination and Improved Model of Plant Photosystem I. Journal of Biological Chemistry, 2010, 285, 3478-3486.	3.4	238
6	Organization and Regulation of Mitochondrial Protein Synthesis. Annual Review of Biochemistry, 2016, 85, 77-101.	11.1	221
7	The structure of the yeast mitochondrial ribosome. Science, 2017, 355, 528-531.	12.6	161
8	Mitochondrial ribosome assembly in health and disease. Cell Cycle, 2015, 14, 2226-2250.	2.6	157
9	Structures of the human mitochondrial ribosome in native states of assembly. Nature Structural and Molecular Biology, 2017, 24, 866-869.	8.2	140
10	Plant Photosystem I Design in the Light of Evolution. Structure, 2009, 17, 637-650.	3.3	89
11	Picosecond Fluorescence of Intact and Dissolved PSI-LHCI Crystals. Biophysical Journal, 2008, 95, 5851-5861.	0.5	85
12	Mechanism of membrane-tethered mitochondrial protein synthesis. Science, 2021, 371, 846-849.	12.6	76
13	Structural basis of mitochondrial translation. ELife, 2020, 9, .	6.0	71
14	The cryo-EM structure of hibernating 100S ribosome dimer from pathogenic Staphylococcus aureus. Nature Communications, 2017, 8, 723.	12.8	69
15	Structure of a mitochondrial ATP synthase with bound native cardiolipin. ELife, 2019, 8, .	6.0	69
16	ATP synthase hexamer assemblies shape cristae of Toxoplasma mitochondria. Nature Communications, 2021, 12, 120.	12.8	64
17	Structure of the chloroplast ribosome with chl-RRF and hibernation-promoting factor. Nature Plants, 2018, 4, 212-217.	9.3	61
18	Structural Patching Fosters Divergence of Mitochondrial Ribosomes. Molecular Biology and Evolution, 2019, 36, 207-219.	8.9	56

#	ARTICLE	IF	CITATIONS
19	Functional organization of a plant Photosystem I: Evolution of a highly efficient photochemical machine. <i>Plant Physiology and Biochemistry</i> , 2008, 46, 228-237.	5.8	55
20	Bactobolin A Binds to a Site on the 70S Ribosome Distinct from Previously Seen Antibiotics. <i>Journal of Molecular Biology</i> , 2015, 427, 753-755.	4.2	48
21	Distinct pre-initiation steps in human mitochondrial translation. <i>Nature Communications</i> , 2020, 11, 2932.	12.8	45
22	Structure of a minimal photosystem I from the green alga <i>Dunaliella salina</i> . <i>Nature Plants</i> , 2020, 6, 321-327.	9.3	40
23	Type III ATP synthase is a symmetry-deviated dimer that induces membrane curvature through tetramerization. <i>Nature Communications</i> , 2020, 11, 5342.	12.8	37
24	Interconnected assembly factors regulate the biogenesis of mitoribosomal large subunit. <i>EMBO Journal</i> , 2021, 40, e106292.	7.8	36
25	Ciliate mitoribosome illuminates evolutionary steps of mitochondrial translation. <i>ELife</i> , 2020, 9, .	6.0	35
26	Analysis of translating mitoribosome reveals functional characteristics of translation in mitochondria of fungi. <i>Nature Communications</i> , 2020, 11, 5187.	12.8	34
27	MRPS25 mutations impair mitochondrial translation and cause encephalomyopathy. <i>Human Molecular Genetics</i> , 2019, 28, 2711-2719.	2.9	33
28	Inhibition of mitochondrial translation suppresses glioblastoma stem cell growth. <i>Cell Reports</i> , 2021, 35, 109024.	6.4	33
29	Mechanism of mitoribosomal small subunit biogenesis and preinitiation. <i>Nature</i> , 2022, 606, 603-608.	27.8	32
30	Distinct structural modulation of photosystem I and lipid environment stabilizes its tetrameric assembly. <i>Nature Plants</i> , 2020, 6, 314-320.	9.3	30
31	Cryo-EM structure of the activated RET signaling complex reveals the importance of its cysteine-rich domain. <i>Science Advances</i> , 2019, 5, eaau4202.	10.3	23
32	Solving the structure of plant photosystem I – biochemistry is vital. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 1011.	2.9	19
33	Structure-based mechanism for activation of the AAA+ GTPase McrB by the endonuclease McrC. <i>Nature Communications</i> , 2019, 10, 3058.	12.8	19
34	Parameters of the Protein Energy Landscapes of Several Light-Harvesting Complexes Probed via Spectral Hole Growth Kinetics Measurements. <i>Journal of Physical Chemistry B</i> , 2011, 115, 2737-2747.	2.6	16
35	Rapid Isolation of the Mitoribosome from HEK Cells. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	16
36	Cryo-EM structure and rRNA modification sites of a plant ribosome. <i>Plant Communications</i> , 2022, 3, 100342.	7.7	15

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37	Zinc depletion does not necessarily induce ribosome hibernation in mycobacteria. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2395-2397.	7.1	10
38	The revolution evolution. Nature Plants, 2022, 8, 14-17.	9.3	4
39	Cryo-EM reconstruction of the chlororibosome to 3.2Å resolution within 24h. IUCr, 2017, 4, 723-727.	2.2	3
40	Ribosome origami. Nature Structural and Molecular Biology, 2017, 24, 879-881.	8.2	2
41	Structure of the Yeast Mitochondrial Large Ribosomal Subunit. Microscopy and Microanalysis, 2014, 20, 1252-1253.	0.4	1
42	Application of Cryo-EM for Visualization of Mitoribosomes. Methods in Molecular Biology, 2021, 2192, 197-210.	0.9	1
43	Picosecond Fluorescence Of Intact And Dissolved PSI-LHCI Crystals. Biophysical Journal, 2009, 96, 524a.	0.5	0