Robert A Grassucci

List of Publications by Year
in descending order

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34 papers	5,756 citations	185998 28 h-index	454577 30 g-index
34 all docs	34 docs citations	34 times ranked	4318 citing authors

#	Article	IF	Citations
1	Hepatitis C Virus IRES RNA-Induced Changes in the Conformation of the 40S Ribosomal Subunit. Science, 2001, 291, 1959-1962.	6.0	463
2	Solution Structure of the E. coli 70S Ribosome at 11.5 Ã... Resolution. Cell, 2000, 100, 537-549.	13.5	401
3	The ribosome at improved resolution: New techniques for merging and orientation refinement in 3D cryo-electron microscopy of biological particles. Ultramicroscopy, 1994, 53, 251-270.	0.8	385
4	Structure of the signal recognition particle interacting with the elongation-arrested ribosome. Nature, 2004, 427, 808-814.	13.7	382
5	Domain movements of elongation factor eEF2 and the eukaryotic 80S ribosome facilitate tRNA translocation. EMBO Journal, 2004, 23, 1008-1019.	3.5	373
6	Structure of a mammalian ryanodine receptor. Nature, 2015, 517, 44-49.	13.7	350
7	Structural Basis for Gating and Activation of RyR1. Cell, 2016, 167, 145-157.e17.	13.5	301
8	EF-G-dependent GTP hydrolysis induces translocation accompanied by large conformational changes in the 70S ribosome. Nature Structural Biology, 1999, 6, 643-647.	9.7	282
9	Cryo-EM reveals an active role for aminoacyl-tRNA in the accommodation process. EMBO Journal, 2002, 21, 3557-3567.	3.5	272
10	A 9 Ã... Resolution X-Ray Crystallographic Map of the Large Ribosomal Subunit. Cell, 1998, 93, 1105-1115.	13.5	266
11	Cryo-EM Visualization of a Viral Internal Ribosome Entry Site Bound to Human Ribosomes. Cell, 2004, 118, 465-475.	13.5	239
12	A cryo-electron microscopic study of ribosome-bound termination factor RF2. Nature, 2003, 421, 87-90.	13.7	234
13	Ribosome-induced changes in elongation factor Tu conformation control GTP hydrolysis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1063-1068.	3.3	219
14	Preparation of macromolecular complexes for cryo-electron microscopy. Nature Protocols, 2007, 2, 3239-3246.	5.5	197
15	Structure of the Mammalian Ribosomal 43S Preinitiation Complex Bound to the Scanning Factor DHX29. Cell, 2013, 153, 1108-1119.	13.5	197
16	Escherichia coli 70 S ribosome at 15 Ã... resolution by cryo-electron microscopy: localization of fmet-tRNAfMet and fitting of L1 protein. Journal of Molecular Biology, 1998, 280, 103-116.	2.0	189
17	Visualization of Trna Movements on the Escherichia coli 70s Ribosome during the Elongation Cycle. Journal of Cell Biology, 2000, 150, 447-460.	2.3	158
18	Hepatitis-C-virus-like internal ribosome entry sites displace eIF3 to gain access to the 40S subunit. Nature, 2013, 503, 539-543.	13.7	158

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19	Visualization of ribosome-recycling factor on theEscherichia coli70S ribosome: Functional implications. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8900-8905.	3.3	147
20	Effect of Buffer Conditions on the Position of tRNA on the 70 S Ribosome As Visualized by Cryoelectron Microscopy. Journal of Biological Chemistry, 1999, 274, 8723-8729.	1.6	84
21	Localization of the Ribosomal Protection Protein Tet(O) on the Ribosome and the Mechanism of Tetracycline Resistance. Molecular Cell, 2001, 7, 1037-1045.	4.5	82
22	[18] Three-dimensional cryoelectron microscopy of ribosomes. Methods in Enzymology, 2000, 317, 276-291.	0.4	66
23	Structure of the mammalian ribosomal pre-termination complex associated with eRF1â€¢eRF3â€¢GDPNP. Nucleic Acids Research, 2014, 42, 3409-3418.	6.5	63
24	Cryo-EM structure of the mammalian eukaryotic release factor eRF1â€“eRF3-associated termination complex. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18413-18418.	3.3	53
25	Visualization of macromolecular complexes using cryo-electron microscopy with FEI Tecnai transmission electron microscopes. Nature Protocols, 2008, 3, 330-339.	5.5	46
26	CTF Challenge: Result summary. Journal of Structural Biology, 2015, 190, 348-359.	1.3	34
27	Direct three-dimensional localization and positive identification of RNA helices within the ribosome by means of genetic tagging and cyro-electron microscopy. Structure, 1999, 7, 1567-1573.	1.6	33
28	Exploration of parameters in cryo-EM leading to an improved density map of the E. coli ribosome. Journal of Structural Biology, 2008, 164, 24-32.	1.3	32
29	Determination of the ribosome structure to a resolution of 2.5 Ã… by singleâ€particle cryoâ€EM. Protein Science, 2017, 26, 82-92.	3.1	26
30	Haloarcula marismortui 50S Subunitâ€”Complementarity of Electron Microscopy and X-Ray Crystallographic Information. Journal of Structural Biology, 1999, 128, 44-50.	1.3	20
31	Cryo-Electron Microscopy of the Translational Apparatus: Experimental Evidence for the Paths of mRNA, tRNA, and the Polypeptide Chain. , 0, , 45-51.		4
32	Cryo-Electron Microscopy Training at the Wadsworth Center. Microscopy and Microanalysis, 2000, 6, 278-279.	0.2	0
33	Domain movements of elongation factor eEF2 and the eukaryotic 80S ribosome facilitate tRNA translocation. journal of hand surgery Asian-Pacific volume, The, 2018, , 361-372.	0.2	0
34	Structural Basis for Gating and Activation of RyR1. journal of hand surgery Asian-Pacific volume, The, 2018, , 497-515.	0.2	0