Ashwin Chari

List of Publications by Year
in descending order

38 papers	3,163 citations	218381 26 h-index	315357 38 g-index
41 all docs	41 docs citations	41 times ranked	4540 citing authors

#	Article	IF	Citations
1	Conformational rearrangements upon start codon recognition in human 48S translation initiation complex. Nucleic Acids Research, 2022, 50, 5282-5298.	6.5	15
2	Ground-state destabilization by electrostatic repulsion is not a driving force in orotidine-5â€²-monophosphate decarboxylase catalysis. Nature Catalysis, 2022, 5, 332-341.	16.1	12
3	X-ray screening identifies active site and allosteric inhibitors of SARS-CoV-2 main protease. Science, 2021, 372, 642-646.	6.0	240
4	Chromatography-Free Purification Strategies for Large Biological Macromolecular Complexes Involving Fractionated PEG Precipitation and Density Gradients. Life, 2021, 11, 1289.	1.1	3
5	Atomic-resolution protein structure determination by cryo-EM. Nature, 2020, 587, 157-161.	13.7	454
6	Proteasomal degradation of the intrinsically disordered protein tau at single-residue resolution. Science Advances, 2020, 6, eaba3916.	4.7	31
7	Discovery of a Regulatory Subunit of the Yeast Fatty Acid Synthase. Cell, 2020, 180, 1130-1143.e20.	13.5	40
8	The copper(II)-binding tripeptide GHK, a valuable crystallization and phasing tag for macromolecular crystallography. Acta Crystallographica Section D: Structural Biology, 2020, 76, 1222-1232.	1.1	2
9	Structural and Functional Analyses of the Human PDH Complex Suggest a â€œDivision-of-Laborâ€• Mechanism by Local E1 and E3 Clusters. Structure, 2019, 27, 1124-1136.e4.	1.6	23
10	Cryo-EM in drug discovery: achievements, limitations and prospects. Nature Reviews Drug Discovery, 2018, 17, 471-492.	21.5	304
11	Long-range allosteric regulation of the human 26S proteasome by 20S proteasome-targeting cancer drugs. Nature Communications, 2017, 8, 15578.	5.8	63
12	The Ribosome Cooperates with the Assembly Chaperone pICln to Initiate Formation of snRNPs. Cell Reports, 2016, 16, 3103-3112.	2.9	23
13	The inhibition mechanism of human 20 S proteasomes enables next-generation inhibitor design. Science, 2016, 353, 594-598.	6.0	170
14	Molecular architecture of the Saccharomyces cerevisiae activated spliceosome. Science, 2016, 353, 1399-1405.	6.0	165
15	Sample preparation of biological macromolecular assemblies for the determination of high-resolution structures by cryo-electron microscopy. Microscopy (Oxford, England), 2016, 65, 23-34.	0.7	43
16	Reconstitution of the human U sn <scp>RNP</scp> assembly machinery reveals stepwise Sm protein organization. EMBO Journal, 2015, 34, 1925-1941.	3.5	47
17	The catalytically inactive tyrosine phosphatase HD-PTP/PTPN23 is a novel regulator of SMN complex localization. Molecular Biology of the Cell, 2015, 26, 161-171.	0.9	22
18	Assembly of RNPs: help needed. Rna, 2015, 21, 613-614.	1.6	3

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19	ProteoPlex: stability optimization of macromolecular complexes by sparse-matrix screening of chemical space. Nature Methods, 2015, 12, 859-865.	9.0	87
20	Phosphoregulation of the human SMN complex. European Journal of Cell Biology, 2014, 93, 106-117.	1.6	24
21	Translation Initiation Factor eIF3b Contains a Nine-Bladed Î²-Propeller and Interacts with the 40S Ribosomal Subunit. Structure, 2014, 22, 923-930.	1.6	33
22	Structural Basis of Assembly Chaperone- Mediated snRNP Formation. Molecular Cell, 2013, 49, 692-703.	4.5	82
23	Biogenesis of spliceosomal small nuclear ribonucleoproteins. Wiley Interdisciplinary Reviews RNA, 2011, 2, 718-731.	3.2	116
24	Cellular strategies for the assembly of molecular machines. Trends in Biochemical Sciences, 2010, 35, 676-683.	3.7	37
25	A crystallization screen based on alternative polymeric precipitants. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 685-697.	2.5	17
26	LSm1-7 complexes bind to specific sites in viral RNA genomes and regulate their translation and replication. Rna, 2010, 16, 817-827.	1.6	41
27	Arginine methylation in subunits of mammalian pre-mRNA cleavage factor I. Rna, 2010, 16, 1646-1659.	1.6	27
28	IGHMBP2 is a ribosome-associated helicase inactive in the neuromuscular disorder distal SMA type 1 (DSMA1). Human Molecular Genetics, 2009, 18, 1288-1300.	1.4	88
29	Translation and replication of hepatitis C virus genomic RNA depends on ancient cellular proteins that control mRNA fates. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13517-13522.	3.3	127
30	The role of RNP biogenesis in spinal muscular atrophy. Current Opinion in Cell Biology, 2009, 21, 387-393.	2.6	84
31	Deciphering the assembly pathway of Smâ€¢class U snRNPs. FEBS Letters, 2008, 582, 1997-2003.	1.3	99
32	An Assembly Chaperone Collaborates with the SMN Complex to Generate Spliceosomal SnRNPs. Cell, 2008, 135, 497-509.	13.5	189
33	Evolution of an RNP assembly system: A minimal SMN complex facilitates formation of UsnRNPs in Drosophila melanogaster. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10045-10050.	3.3	92
34	A Comprehensive Interaction Map of the Human Survival of Motor Neuron (SMN) Complex. Journal of Biological Chemistry, 2007, 282, 5825-5833.	1.6	123
35	A 5â€²-fluorosulfonylbenzoyladenosine-based method to identify physiological substrates of a Drosophila p21-activated kinase. Analytical Biochemistry, 2007, 368, 178-184.	1.1	6
36	Spinal muscular atrophy: the RNP connection. Trends in Molecular Medicine, 2006, 12, 113-121.	3.5	97

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37	Unrip, a factor implicated in cap-independent translation, associates with the cytosolic SMN complex and influences its intracellular localization. Human Molecular Genetics, 2005, 14, 3099-3111.	1.4	70
38	Toward an Assembly Line for U7 snRNPs. Journal of Biological Chemistry, 2005, 280, 34435-34440.	1.6	38