

Andrew P Carter

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

9,724
citations

218381

26
h-index

329751

37
g-index

65
all docs

65
docs citations

65
times ranked

7754
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of the 30S ribosomal subunit. <i>Nature</i> , 2000, 407, 327-339.	13.7	1,891
2	Functional insights from the structure of the 30S ribosomal subunit and its interactions with antibiotics. <i>Nature</i> , 2000, 407, 340-348.	13.7	1,477
3	Recognition of Cognate Transfer RNA by the 30S Ribosomal Subunit. <i>Science</i> , 2001, 292, 897-902.	6.0	1,085
4	Single-Molecule Analysis of Dynein Processivity and Stepping Behavior. <i>Cell</i> , 2006, 126, 335-348.	13.5	571
5	The cytoplasmic dynein transport machinery and its many cargoes. <i>Nature Reviews Molecular Cell Biology</i> , 2018, 19, 382-398.	16.1	485
6	The structure of the dynactin complex and its interaction with dynein. <i>Science</i> , 2015, 347, 1441-1446.	6.0	389
7	SARS-CoV-2 Infects the Brain Choroid Plexus and Disrupts the Blood-CSF Barrier in Human Brain Organoids. <i>Cell Stem Cell</i> , 2020, 27, 951-961.e5.	5.2	388
8	Force-Induced Bidirectional Stepping of Cytoplasmic Dynein. <i>Cell</i> , 2007, 131, 952-965.	13.5	361
9	<i>In vitro</i> reconstitution of a highly processive recombinant human dynein complex. <i>EMBO Journal</i> , 2014, 33, 1855-1868.	3.5	341
10	Furin cleavage of SARS-CoV-2 Spike promotes but is not essential for infection and cell-cell fusion. <i>PLoS Pathogens</i> , 2021, 17, e1009246.	2.1	268
11	Cryo-EM shows how dynactin recruits two dyneins for faster movement. <i>Nature</i> , 2018, 554, 202-206.	13.7	238
12	Crystal Structure of the Dynein Motor Domain. <i>Science</i> , 2011, 331, 1159-1165.	6.0	237
13	Cryo-EM Reveals How Human Cytoplasmic Dynein Is Auto-inhibited and Activated. <i>Cell</i> , 2017, 169, 1303-1314.e18.	13.5	237
14	Structure and Functional Role of Dynein's Microtubule-Binding Domain. <i>Science</i> , 2008, 322, 1691-1695.	6.0	231
15	Insights into dynein motor domain function from a 3.3-Å... crystal structure. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 492-497.	3.6	164
16	The mammalian dynein-dynactin complex is a strong opponent to kinesin in a tug-of-war competition. <i>Nature Cell Biology</i> , 2016, 18, 1018-1024.	4.6	164
17	The Affinity of the Dynein Microtubule-binding Domain Is Modulated by the Conformation of Its Coiled-coil Stalk. <i>Journal of Biological Chemistry</i> , 2005, 280, 23960-23965.	1.6	159
18	Structure of human cytoplasmic dynein-2 primed for its power stroke. <i>Nature</i> , 2015, 518, 435-438.	13.7	153

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19	How dynein and dynactin transport cargos: a structural perspective. <i>Current Opinion in Structural Biology</i> , 2016, 37, 62-70.	2.6	115
20	DYNC1H1 mutations associated with neurological diseases compromise processivity of dynein–dynactin–cargo adaptor complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1597-E1606.	3.3	101
21	Review: Structure and mechanism of the dynein motor ATPase. <i>Biopolymers</i> , 2016, 105, 557-567.	1.2	100
22	Structure of the dynein-2 complex and its assembly with intraflagellar transport trains. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 823-829.	3.6	91
23	Crystal clear insights into how the dynein motor moves. <i>Journal of Cell Science</i> , 2013, 126, 705-13.	1.2	80
24	Cryo-EM of dynein microtubule-binding domains shows how an axonemal dynein distorts the microtubule. <i>ELife</i> , 2019, 8, .	2.8	56
25	Directionality of dynein is controlled by the angle and length of its stalk. <i>Nature</i> , 2019, 566, 407-410.	13.7	50
26	A cryo-ET survey of microtubules and intracellular compartments in mammalian axons. <i>Journal of Cell Biology</i> , 2022, 221, .	2.3	33
27	Shulin packages axonemal outer dynein arms for ciliary targeting. <i>Science</i> , 2021, 371, 910-916.	6.0	31
28	Chemical structure-guided design of dynapyrazoles, cell-permeable dynein inhibitors with a unique mode of action. <i>ELife</i> , 2017, 6, .	2.8	31
29	Communication between the AAA+ ring and microtubule-binding domain of dynein This paper is one of a selection of papers published in this special issue entitled 8th International Conference on AAA Proteins and has undergone the Journal's usual peer review process.. <i>Biochemistry and Cell Biology</i> , 2010, 88, 15-21.	0.9	30
30	The Arp1/11 minifilament of dynactin primes the endosomal Arp2/3 complex. <i>Science Advances</i> , 2021, 7, .	4.7	23
31	Cryo-EM reveals the complex architecture of dynactin's shoulder region and pointed end. <i>EMBO Journal</i> , 2021, 40, e106164.	3.5	22
32	A structural analysis of the AAA+ domains in <i>Saccharomyces cerevisiae</i> cytoplasmic dynein. <i>Journal of Structural Biology</i> , 2014, 186, 367-375.	1.3	21
33	Cytoplasmic Dynein Antagonists with Improved Potency and Isoform Selectivity. <i>ACS Chemical Biology</i> , 2016, 11, 53-60.	1.6	19
34	Localised dynactin protects growing microtubules to deliver oskar mRNA to the posterior cortex of the <i>Drosophila</i> oocyte. <i>ELife</i> , 2017, 6, .	2.8	14
35	Bimodal endocytic probe for three-dimensional correlative light and electron microscopy. <i>Cell Reports Methods</i> , 2022, 2, 100220.	1.4	6
36	A High-Throughput Cellular Screening Assay for Small-Molecule Inhibitors and Activators of Cytoplasmic Dynein-1-Based Cargo Transport. <i>SLAS Discovery</i> , 2020, 25, 985-999.	1.4	4

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37	Mechanism and regulation of dynein motors. , 2018, , 36-51.		2
38	Dynein Family Classification. , 2013, , 552-558.		1