

Charles V Sindelar

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32
papers

1,076
citations

20
h-index

32
g-index

38
ext. papers

1,375
ext. citations

8
avg, IF

4.54
L-index

#	Paper	IF	Citations
32	An atomic-level mechanism for activation of the kinesin molecular motors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 4111-6	11.5	129
31	The beginning of kinesin's force-generating cycle visualized at 9-A resolution. <i>Journal of Cell Biology</i> , 2007 , 177, 377-85	7.3	124
30	High-resolution structures of kinesin on microtubules provide a basis for nucleotide-gated force-generation. <i>ELife</i> , 2014 , 3, e04686	8.9	93
29	High-resolution cryo-EM structures of actin-bound myosin states reveal the mechanism of myosin force sensing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1292-1297	11.5	72
28	Two conformations in the human kinesin power stroke defined by X-ray crystallography and EPR spectroscopy. <i>Nature Structural Biology</i> , 2002 , 9, 844-8		64
27	Calcium sensitive ring-like oligomers formed by synaptotagmin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 13966-71	11.5	59
26	The structural basis of force generation by the mitotic motor kinesin-5. <i>Journal of Biological Chemistry</i> , 2012 , 287, 44654-66	5.4	54
25	The myosin X motor is optimized for movement on actin bundles. <i>Nature Communications</i> , 2016 , 7, 12456	7.4	43
24	Ring-like oligomers of Synaptotagmins and related C2 domain proteins. <i>ELife</i> , 2016 , 5,	8.9	41
23	Structural basis of the filamin A actin-binding domain interaction with F-actin. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 918-927	17.6	36
22	Circular oligomerization is an intrinsic property of synaptotagmin. <i>ELife</i> , 2017 , 6,	8.9	35
21	A vertebrate myosin-I structure reveals unique insights into myosin mechanochemical tuning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2116-21	11.5	33
20	A seesaw model for intermolecular gating in the kinesin motor protein. <i>Biophysical Reviews</i> , 2011 , 3, 85-100	3.7	33
19	Site-specific cation release drives actin filament severing by vertebrate cofilin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17821-6	11.5	32
18	The actin filament twist changes abruptly at boundaries between bare and cofilin-decorated segments. <i>Journal of Biological Chemistry</i> , 2018 , 293, 5377-5383	5.4	30
17	Optimal noise reduction in 3D reconstructions of single particles using a volume-normalized filter. <i>Journal of Structural Biology</i> , 2012 , 180, 26-38	3.4	27
16	An adaptation of the Wiener filter suitable for analyzing images of isolated single particles. <i>Journal of Structural Biology</i> , 2011 , 176, 60-74	3.4	22

15	Phosphomimetic S3D cofilin binds but only weakly severs actin filaments. <i>Journal of Biological Chemistry</i> , 2017 , 292, 19565-19579	5.4	20
14	Structural basis for the clamping and Ca activation of SNARE-mediated fusion by synaptotagmin. <i>Nature Communications</i> , 2019 , 10, 2413	17.4	20
13	Dynamic and asymmetric fluctuations in the microtubule wall captured by high-resolution cryoelectron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 16976-16984	11.5	20
12	Structural basis of cooperativity in kinesin revealed by 3D reconstruction of a two-head-bound state on microtubules. <i>ELife</i> , 2017 , 6,	8.9	19
11	Structures of cofilin-induced structural changes reveal local and asymmetric perturbations of actin filaments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 1478-1484	11.5	18
10	The yeast kinesin-5 Cin8 interacts with the microtubule in a noncanonical manner. <i>Journal of Biological Chemistry</i> , 2017 , 292, 14680-14694	5.4	12
9	An asymmetric sheath controls flagellar supercoiling and motility in the leptospira spirochete. <i>ELife</i> , 2020 , 9,	8.9	12
8	FcpB Is a Surface Filament Protein of the Endoflagellum Required for the Motility of the Spirochete. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018 , 8, 130	5.9	10
7	The kinesin-5 tail domain directly modulates the mechanochemical cycle of the motor domain for anti-parallel microtubule sliding. <i>ELife</i> , 2020 , 9,	8.9	8
6	Munc13 structural transitions and oligomers that may choreograph successive stages in vesicle priming for neurotransmitter release.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	3
5	Structural basis of fast- and slow-severing actin-cofilactin boundaries. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100337	5.4	3
4	Tracking Down Kinesin's Achilles Heel with Balls of Gold. <i>Biophysical Journal</i> , 2017 , 112, 2454-2456	2.9	2
3	Structural basis of flagellar filament asymmetry and supercoil templating by Leptospira spirochete sheath proteins		1
2	Vinculin: An Unfolding Tale. <i>Journal of Molecular Biology</i> , 2016 , 428, 1-4	6.5	
1	Severed Actin and Microtubules with Motors Walking All Over Them: Cryo-EM Studies of Seriously Perturbed Helical Assemblies. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1362-1363	0.5	