

# Charles V Sindelar

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5576632/publications.pdf>

Version: 2024-02-01

32  
papers

1,601  
citations

304368

22  
h-index

433756

31  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1566  
citing authors

#	ARTICLE	IF	CITATIONS
1	An atomic-level mechanism for activation of the kinesin molecular motors. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4111-4116.	3.3	148
2	The beginning of kinesin's force-generating cycle visualized at 9-Å resolution. Journal of Cell Biology, 2007, 177, 377-385.	2.3	135
3	High-resolution structures of kinesin on microtubules provide a basis for nucleotide-gated force-generation. ELife, 2014, 3, e04686.	2.8	131
4	High-resolution cryo-EM structures of actin-bound myosin states reveal the mechanism of myosin force sensing. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1292-1297.	3.3	109
5	Calcium sensitive ring-like oligomers formed by synaptotagmin. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13966-13971.	3.3	76
6	Two conformations in the human kinesin power stroke defined by X-ray crystallography and EPR spectroscopy. Nature Structural Biology, 2002, 9, 844-8.	9.7	75
7	The myosin X motor is optimized for movement on actin bundles. Nature Communications, 2016, 7, 12456.	5.8	75
8	The Structural Basis of Force Generation by the Mitotic Motor Kinesin-5. Journal of Biological Chemistry, 2012, 287, 44654-44666.	1.6	69
9	Structures of cofilin-induced structural changes reveal local and asymmetric perturbations of actin filaments. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1478-1484.	3.3	64
10	Structural basis of the filamin A actin-binding domain interaction with F-actin. Nature Structural and Molecular Biology, 2018, 25, 918-927.	3.6	60
11	Ring-like oligomers of Synaptotagmins and related C2 domain proteins. ELife, 2016, 5, .	2.8	57
12	The actin filament twist changes abruptly at boundaries between bare and cofilin-decorated segments. Journal of Biological Chemistry, 2018, 293, 5377-5383.	1.6	50
13	Dynamic and asymmetric fluctuations in the microtubule wall captured by high-resolution cryoelectron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16976-16984.	3.3	49
14	Circular oligomerization is an intrinsic property of synaptotagmin. ELife, 2017, 6, .	2.8	47
15	Site-specific cation release drives actin filament severing by vertebrate cofilin. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17821-17826.	3.3	45
16	A vertebrate myosin-I structure reveals unique insights into myosin mechanochemical tuning. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2116-2121.	3.3	41
17	The kinesin-5 tail domain directly modulates the mechanochemical cycle of the motor domain for anti-parallel microtubule sliding. ELife, 2020, 9, .	2.8	40
18	Structural basis for the clamping and Ca <sup>2+</sup> activation of SNARE-mediated fusion by synaptotagmin. Nature Communications, 2019, 10, 2413.	5.8	39

#	ARTICLE	IF	CITATIONS
19	A seesaw model for intermolecular gating in the kinesin motor protein. <i>Biophysical Reviews</i> , 2011, 3, 85-100.	1.5	37
20	Phosphomimetic S3D cofilin binds but only weakly severs actin filaments. <i>Journal of Biological Chemistry</i> , 2017, 292, 19565-19579.	1.6	35
21	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, .	3.3	35
22	An adaptation of the Wiener filter suitable for analyzing images of isolated single particles. <i>Journal of Structural Biology</i> , 2011, 176, 60-74.	1.3	33
23	Optimal noise reduction in 3D reconstructions of single particles using a volume-normalized filter. <i>Journal of Structural Biology</i> , 2012, 180, 26-38.	1.3	33
24	Structural basis of cooperativity in kinesin revealed by 3D reconstruction of a two-head-bound state on microtubules. <i>ELife</i> , 2017, 6, .	2.8	26
25	An asymmetric sheath controls flagellar supercoiling and motility in the leptospira spirochete. <i>ELife</i> , 2020, 9, .	2.8	26
26	The yeast kinesin-5 Cin8 interacts with the microtubule in a noncanonical manner. <i>Journal of Biological Chemistry</i> , 2017, 292, 14680-14694.	1.6	23
27	FcpB Is a Surface Filament Protein of the Endoflagellum Required for the Motility of the Spirochete <i>Leptospira</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 130.	1.8	20
28	Structural basis of fast- and slow-severing actin-cofilactin boundaries. <i>Journal of Biological Chemistry</i> , 2021, 296, 100337.	1.6	15
29	Vinculin: An Unfolding Tale. <i>Journal of Molecular Biology</i> , 2016, 428, 1-4.	2.0	2
30	Tracking Down Kinesin's Achilles Heel with Balls of Gold. <i>Biophysical Journal</i> , 2017, 112, 2454-2456.	0.2	2
31	Cofilin Induces a Local Change in the Twist of Actin Filaments. <i>Biophysical Journal</i> , 2018, 114, 145a.	0.2	1
32	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.	0.2	0