John S Allingham

List of Publications by Citations

31 papers	1,181 citations	17 h-index	32 g-index
32 ext. papers	1,350 ext. citations	10.1 avg, IF	4.03 L-index

#	Paper	IF	Citations
31	The structural basis of blebbistatin inhibition and specificity for myosin II. *Nature Structural and Molecular Biology*, **2005**, 12, 378-9	17.6	228
30	Trisoxazole macrolide toxins mimic the binding of actin-capping proteins to actin. *Nature Structural and Molecular Biology*, **2003**, 10, 1058-63	17.6	134
29	An antifreeze protein folds with an interior network of more than 400 semi-clathrate waters. *Science*, **2014**, 343, 795-8	33.3	122
28	Structures of microfilament destabilizing toxins bound to actin provide insight into toxin design and activity. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 14527-32	11.5	80
27	Vik1 modulates microtubule-Kar3 interactions through a motor domain that lacks an active site. *Cell*, **2007**, 128, 1161-72	56.2	72
26	The RAG1/RAG2 complex constitutes a 3Vflap endonuclease: implications for junctional diversity in V(D)J and transpositional recombination. *Molecular Cell*, **1999**, 4, 935-47	17.6	70
25	A structural basis for regulation of actin polymerization by pectenotoxins. *Journal of Molecular Biology*, **2007**, 371, 959-70	6.5	58
24	Structure of a 1.5-MDa adhesin that binds its Antarctic bacterium to diatoms and ice. *Science Advances*, **2017**, 3, e1701440	14.3	52
23	Absolute stereochemistry of ulapualide A. *Organic Letters*, **2004**, 6, 597-9	6.2	45
22	All three residues of the Tn 10 transposase DDE catalytic triad function in divalent metal ion binding. *Journal of Molecular Biology*, **1999**, 289, 1195-206	6.5	45
21	Actin-binding cleft closure in myosin II probed by site-directed spin labeling and pulsed EPR. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 12867-72	11.5	41
20	KIF14 binds tightly to microtubules and adopts a rigor-like conformation. *Journal of Molecular Biology*, **2014**, 426, 2997-3015	6.5	33
19	The small molecule tool (S)-(-)-blebbistatin: novel insights of relevance to myosin inhibitor design. *Organic and Biomolecular Chemistry*, **2008**, 6, 2076-84	3.9	29
18	Ternary complex of Kif2A-bound tandem tubulin heterodimers represents a kinesin-13-mediated microtubule depolymerization reaction intermediate. *Nature Communications*, **2018**, 9, 2628	17.4	27
17	Mechanisms of metal ion action in Tn10 transposition. *Journal of Molecular Biology*, **2002**, 319, 53-65	6.5	23
16	Crystal structure of calpain-3 penta-EF-hand (PEF) domain - a homodimerized PEF family member with calcium bound at the fifth EF-hand. *FEBS Journal*, **2014**, 281, 3138-49	5.7	22
15	Loss-of-function mutations in KIF14 cause severe microcephaly and kidney development defects in humans and zebrafish. *Human Molecular Genetics*, **2019**, 28, 778-795	5.6	22

List of Publications

14	Role of Ca□+ in folding the tandem □-sandwich extender domains of a bacterial ice-binding adhesin. *FEBS Journal*, **2013**, 280, 5919-32	5.7	17
13	Conditional switching of KIF2A mutation provides new insights into cortical malformation pathogeny. *Human Molecular Genetics*, **2020**, 29, 766-784	5.6	9
12	Neck rotation and neck mimic docking in the noncatalytic Kar3-associated protein Vik1. *Journal of Biological Chemistry*, **2012**, 287, 40292-301	5.4	9
11	Peptide backbone circularization enhances antifreeze protein thermostability. *Protein Science*, **2017**, 26, 1932-1941	6.3	7
10	Crystal structure of the Kar3-like kinesin motor domain from the filamentous fungus Ashbya gossypii. *Proteins: Structure, Function and Bioinformatics*, **2012**, 80, 1016-27	4.2	7
9	These motors were made for walking. *Protein Science*, **2020**, 29, 1707-1723	6.3	5
8	Functional adaptation between yeast actin and its cognate myosin motors. *Journal of Biological Chemistry*, **2011**, 286, 30384-30392	5.4	5
7	Crystal structure of the Candida albicans Kar3 kinesin motor domain fused to maltose-binding protein. *Biochemical and Biophysical Research Communications*, **2012**, 428, 427-32	3.4	4
6	Kar3Vik1 mechanochemistry is inhibited by mutation or deletion of the C terminus of the Vik1 subunit. *Journal of Biological Chemistry*, **2013**, 288, 36957-70	5.4	4
5	Candida albicans Kinesin Kar3 Depends on a Cik1-Like Regulatory Partner Protein for Its Roles in Mating, Cell Morphogenesis, and Bipolar Spindle Formation. *Eukaryotic Cell*, **2015**, 14, 755-74		3
4	Actin-binding toxin "tail" wags the dog. *Chemistry and Biology*, **2008**, 15, 205-7		3
3	Phasing with calcium at home. *Acta Crystallographica Section F, Structural Biology Communications*, **2019**, 75, 377-384	1.1	2
2	Ste2 receptor-mediated chemotropism of Fusarium graminearum contributes to its pathogenicity against wheat. *Scientific Reports*, **2020**, 10, 10770	4.9	2
1	Kinesin-5 Is Dispensable for Bipolar Spindle Formation and Elongation in Candida albicans, but Simultaneous Loss of Kinesin-14 Activity Is Lethal. *MSphere*, **2019**, 4,	5	1