# David Popp

## List of Publications by Year in descending order



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|---|---|---|---|
| 31 papers | 3,192 citations | 516710 16 h-index | 434195 31 g-index |
| 32 all docs | 32 docs citations | 32 times ranked | 2284 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Atomic model of the actin filament. Nature, 1990, 347, 44-49. | 27.8 | 1,571 |
| 2 | Refinement of the F-Actin Model against X-ray Fiber Diffraction Data by the Use of a Directed Mutation Algorithm. Journal of Molecular Biology, 1993, 234, 826-836. | 4.2 | 505 |
| 3 | The evolution of compositionally and functionally distinct actin filaments. Journal of Cell Science, 2015, 128, 2009-2019. | 2.0 | 247 |
| 4 | An Atomic Model of the Unregulated Thin Filament Obtained by X-ray Fiber Diffraction on Oriented Actin-Tropomyosin Gels. Journal of Molecular Biology, 1995, 246, 108-119. | 4.2 | 216 |
| 5 | FtsZ condensates: An in vitro electron microscopy study. Biopolymers, 2009, 91, 340-350. | 2.4 | 108 |
| 6 | Molecular structure of the ParM polymer and the mechanism leading to its nucleotide-driven dynamic instability. EMBO Journal, 2008, 27, 570-579. | 7.8 | 80 |
| 7 | Filament Structure, Organization, and Dynamics in MreB Sheets. Journal of Biological Chemistry, 2010, 285, 15858-15865. | 3.4 | 59 |
| 8 | Structure and Filament Dynamics of the pSK41 Actin-like ParM Protein. Journal of Biological Chemistry, 2010, 285, 10130-10140. | 3.4 | 43 |
| 9 | Suprastructures and Dynamic Properties of Mycobacterium tuberculosis FtsZ. Journal of Biological Chemistry, 2010, 285, 11281-11289. | 3.4 | 42 |
| 10 | Polymeric Structures and Dynamic Properties of the Bacterial Actin AlfA. Journal of Molecular Biology, 2010, 397, 1031-1041. | 4.2 | 35 |
| 11 | Novel Actin-like Filament Structure from Clostridium tetani. Journal of Biological Chemistry, 2012, 287, 21121-21129. | 3.4 | 29 |
| 12 | Concerning the dynamic instability of actin homolog ParM. Biochemical and Biophysical Research Communications, 2007, 353, 109-114. | 2.1 | 28 |
| 13 | Direct visualization of actin nematic network formation and dynamics. Biochemical and Biophysical Research Communications, 2006, 351, 348-353. | 2.1 | 24 |
| 14 | X-ray diffraction studies on oriented gels of vertebrate smooth muscle thin filaments. Journal of Molecular Biology, 1992, 224, 65-76. | 4.2 | 21 |
| 15 | Many ways to build an actin filament. Molecular Microbiology, 2011, 80, 300-308. | 2.5 | 21 |
| 16 | Crowded Surfaces Change Annealing Dynamics of Actin Filaments. Journal of Molecular Biology, 2007, 368, 365-374. | 4.2 | 17 |
| 17 | Effect of shortâ€range forces on the length distribution of fibrous cytoskeletal proteins. Biopolymers, 2008, 89, 711-721. | 2.4 | 16 |
| 18 | Molecular mechanism of bundle formation by the bacterial actin ParM. Biochemical and Biophysical Research Communications, 2010, 391, 1598-1603. | 2.1 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Novel actin filaments fromBacillus thuringiensisform nanotubules for plasmid DNA segregation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1200-E1205. | 7.1 | 16 |
| 20 | Supramolecular cellular filament systems: How and why do they form?. Cytoskeleton, 2012, 69, 71-87. | 2.0 | 13 |
| 21 | Flowâ€aligned, singleâ€shot fiber diffraction using a femtosecond Xâ€ray freeâ€electron laser. Cytoskeleton, 2017, 74, 472-481. | 2.0 | 12 |
| 22 | Single molecule polymerization, annealing and bundling dynamics of SipA induced actin filaments. Cytoskeleton, 2008, 65, 165-177. | 4.4 | 11 |
| 23 | Supercoiling of f-Actin filaments. Journal of Structural Biology, 1990, 103, 225-231. | 2.8 | 10 |
| 24 | Large-scale purification and in vitro characterization of the assembly of MreB from Leptospira interrogans. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 1942-1952. | 2.4 | 10 |
| 25 | Structural complexity of filaments formed from the actin and tubulin folds. Communicative and Integrative Biology, 2016, 9, e1242538. | 1.4 | 8 |
| 26 | Advances in Structural Biology and the Application to Biological Filament Systems. BioEssays, 2018, 40, e1700213. | 2.5 | 8 |
| 27 | Protofilament Formation of ParM Mutants. Journal of Molecular Biology, 2009, 388, 209-217. | 4.2 | 7 |
| 28 | In search of the primordial actin filament. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9150-9151. | 7.1 | 7 |
| 29 | The structure of a 15-stranded actin-like filament from Clostridium botulinum. Nature Communications, 2019, 10, 2856. | 12.8 | 7 |
| 30 | Microtubule-like Properties of the Bacterial Actin Homolog ParM-R1. Journal of Biological Chemistry, 2012, 287, 37078-37088. | 3.4 | 4 |
| 31 | Bacterial cytoskeleton suprastructures and their physical origin. Communicative and Integrative Biology, 2010, 3, 451-453. | 1.4 | 1 |