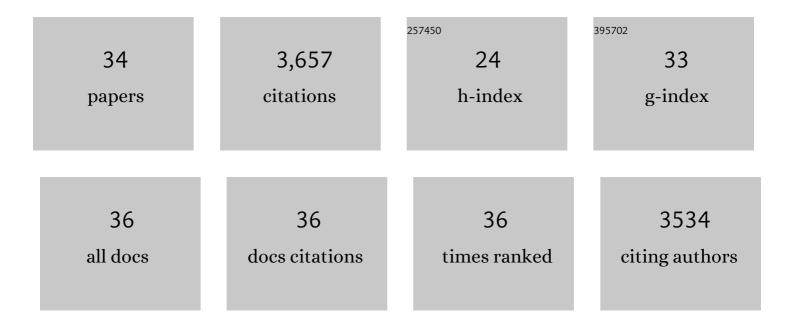
## Zev Bryant

## List of Publications by Year in descending order

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Ζεν Βργλητ

| #  | Article                                                                                                                                                                                  | lF   | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | Coarse-grained modeling reveals the impact ofÂsupercoiling and loop length in DNA looping kinetics.<br>Biophysical Journal, 2022, 121, 1949-1962.                                        | 0.5  | 2         |
| 2  | Optical control of fast and processive engineered myosins in vitro and in living cells. Nature Chemical Biology, 2021, 17, 540-548.                                                      | 8.0  | 17        |
| 3  | Curiosity-Based Biophysics Projects in a High School Setting with Graduate Student Mentorship. The<br>Biophysicist, 2021, 2, 6-11.                                                       | 0.3  | 0         |
| 4  | Spatiotemporal control of liquid crystal structure and dynamics through activity patterning. Nature<br>Materials, 2021, 20, 875-882.                                                     | 27.5 | 70        |
| 5  | Machine learning active-nematic hydrodynamics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .                                             | 7.1  | 44        |
| 6  | Engineering reconfigurable flow patterns via surface-driven light-controlled active matter. Physical<br>Review Fluids, 2021, 6, .                                                        | 2.5  | 2         |
| 7  | Introduction: Molecular Motors. Chemical Reviews, 2020, 120, 1-4.                                                                                                                        | 47.7 | 53        |
| 8  | Modulated control of DNA supercoiling balance by the DNA-wrapping domain of bacterial gyrase.<br>Nucleic Acids Research, 2020, 48, 2035-2049.                                            | 14.5 | 3         |
| 9  | Cas9 interrogates DNA in discrete steps modulated by mismatches and supercoiling. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5853-5860. | 7.1  | 62        |
| 10 | Multi-parameter measurements of conformational dynamics in nucleic acids and nucleoprotein complexes. Methods, 2019, 169, 69-77.                                                         | 3.8  | 2         |
| 11 | Rotation of endosomes demonstrates coordination of molecular motors during axonal transport.<br>Science Advances, 2018, 4, e1602170.                                                     | 10.3 | 38        |
| 12 | Dynamic coupling between conformations and nucleotide states in DNA gyrase. Nature Chemical<br>Biology, 2018, 14, 565-574.                                                               | 8.0  | 18        |
| 13 | Multimodal Measurements of Single-Molecule Dynamics Using FluoRBT. Biophysical Journal, 2018, 114, 278-282.                                                                              | 0.5  | 14        |
| 14 | Controllable molecular motors engineered from myosin and RNA. Nature Nanotechnology, 2018, 13, 34-40.                                                                                    | 31.5 | 19        |
| 15 | A Mechanosensitive RhoA Pathway that Protects Epithelia against Acute Tensile Stress. Developmental<br>Cell, 2018, 47, 439-452.e6.                                                       | 7.0  | 131       |
| 16 | Cryo-EM structures reveal specialization at the myosin VI-actin interface and a mechanism of force sensitivity. ELife, 2017, 6, .                                                        | 6.0  | 58        |
| 17 | Structural Dynamics and Mechanochemical Coupling in DNA Gyrase. Journal of Molecular Biology, 2016, 428, 1833-1845.                                                                      | 4.2  | 21        |
| 18 | Gold rotor bead tracking for high-speed measurements of DNA twist, torque and extension. Nature<br>Methods, 2014, 11, 456-462.                                                           | 19.0 | 80        |

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| #  | Article                                                                                                                                                                                                        | IF   | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Engineering myosins for long-range transport on actin filaments. Nature Nanotechnology, 2014, 9,<br>33-38.                                                                                                     | 31.5 | 42        |
| 20 | Remote control of myosin and kinesin motors using light-activated gearshifting. Nature<br>Nanotechnology, 2014, 9, 693-697.                                                                                    | 31.5 | 82        |
| 21 | Torque Spectroscopy of DNA: Base-Pair Stability, Boundary Effects, Backbending, and Breathing<br>Dynamics. Physical Review Letters, 2013, 110, 178103.                                                         | 7.8  | 33        |
| 22 | Torque measurements reveal sequence-specific cooperative transitions in supercoiled DNA.<br>Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6106-6111.             | 7.1  | 84        |
| 23 | ATP binding controls distinct structural transitions of Escherichia coli DNA gyrase in complex with DNA. Nature Structural and Molecular Biology, 2012, 19, 538-546.                                           | 8.2  | 61        |
| 24 | Engineering controllable bidirectional molecular motors based on myosin. Nature Nanotechnology, 2012, 7, 252-256.                                                                                              | 31.5 | 69        |
| 25 | Recent developments in single-molecule DNA mechanics. Current Opinion in Structural Biology, 2012, 22, 304-312.                                                                                                | 5.7  | 74        |
| 26 | Detailed Tuning of Structure and Intramolecular Communication Are Dispensable for Processive<br>Motion of Myosin VI. Biophysical Journal, 2011, 100, 430-439.                                                  | 0.5  | 39        |
| 27 | Contribution of the myosin VI tail domain to processive stepping and intramolecular tension sensing.<br>Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7746-7750. | 7.1  | 43        |
| 28 | Engineered Myosin VI Motors Reveal Minimal Structural Determinants of Directionality and<br>Processivity. Journal of Molecular Biology, 2009, 392, 862-867.                                                    | 4.2  | 33        |
| 29 | The power stroke of myosin VI and the basis of reverse directionality. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 772-777.                                    | 7.1  | 93        |
| 30 | Multiple modes of Escherichia coli DNA gyrase activity revealed by force and torque. Nature<br>Structural and Molecular Biology, 2007, 14, 264-271.                                                            | 8.2  | 101       |
| 31 | Mechanochemical analysis of DNA gyrase using rotor bead tracking. Nature, 2006, 439, 100-104.                                                                                                                  | 27.8 | 172       |
| 32 | DNA overwinds when stretched. Nature, 2006, 442, 836-839.                                                                                                                                                      | 27.8 | 358       |
| 33 | Ten years of tension: single-molecule DNA mechanics. Nature, 2003, 421, 423-427.                                                                                                                               | 27.8 | 1,203     |
| 34 | Structural transitions and elasticity from torque measurements on DNA. Nature, 2003, 424, 338-341.                                                                                                             | 27.8 | 536       |