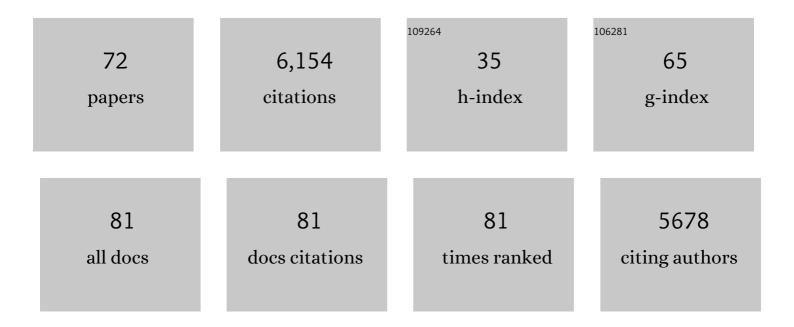
Erik Schäffer

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-------------------|------------------------|
| 1 | Germanium nanospheres for ultraresolution picotensiometry of kinesin motors. Science, 2021, 371, . | 6.0 | 72 |
| 2 | Single depolymerizing and transport kinesins stabilize microtubule ends. Cytoskeleton, 2021, 78, 177-184. | 1.0 | 4 |
| 3 | Anisotropic and Amphiphilic Mesoporous Core–Shell Silica Microparticles Provide Chemically Selective Environments for Simultaneous Delivery of Curcumin and Quercetin. Langmuir, 2021, 37, 13460-13470. | 1.6 | 5 |
| 4 | Fast 3D imaging of giant unilamellar vesicles using reflected lightâ€sheet microscopy with single molecule sensitivity. Journal of Microscopy, 2021, 285, 40. | 0.8 | 0 |
| 5 | Polycationic gold nanorods as multipurpose <i>in vitro</i> microtubule markers. Nanoscale Advances, 2020, 2, 4003-4010. | 2.2 | 1 |
| 6 | In Vitro Reconstitution and Imaging of Microtubule Dynamics by Fluorescence and Label-free Microscopy. STAR Protocols, 2020, 1, 100177. | 0.5 | 7 |
| 7 | The Kinesin-8 Kip3 Depolymerizes Microtubules with a Collective Force-Dependent Mechanism. Biophysical Journal, 2020, 118, 1958-1967. | 0.2 | 11 |
| 8 | Self-Sensing Enzyme-Powered Micromotors Equipped with pH-Responsive DNA Nanoswitches. Nano Letters, 2019, 19, 3440-3447. | 4.5 | 136 |
| 9 | Supported Solid Lipid Bilayers as a Platform for Single-Molecule Force Measurements. Nano Letters, 2019, 19, 8877-8886. | 4.5 | 14 |
| 10 | High performance passive vibration isolation system for optical tables using six-degree-of-freedom viscous damping combined with steel springs. Review of Scientific Instruments, 2019, 90, 015113. | 0.6 | 11 |
| 11 | Determination of twisting of kinesin molecules during stepping. , 2019, , . | | 0 |
| 12 | Determination of pitch rotation in a spherical birefringent microparticle. Journal of Optics (United) Tj ETQq0 0 0 | rgBT /Over 1.0 | rlo <u>çk</u> 10 Tf 50 |
| 13 | Measuring Microtubule Supertwist and Defects by Three-Dimensional-Force-Clamp Tracking of Single Kinesin-1 Motors. Nano Letters, 2018, 18, 1290-1295. | 4.5 | 21 |
| 14 | Three-Dimensional Optical Tweezers TrackingÂResolves Random Sideward Steps ofÂtheÂKinesin-8 Kip3. Biophysical Journal, 2018, 115, 1993-2002. | 0.2 | 20 |
| 15 | Influence of Enzyme Quantity and Distribution on the Self-Propulsion of Non-Janus Urease-Powered Micromotors. Journal of the American Chemical Society, 2018, 140, 7896-7903. | 6.6 | 161 |

16LED-based interference-reflection microscopy combined with optical tweezers for quantitative
three-dimensional microtubule imaging. Optics Express, 2018, 26, 14499.1.734

Labelâ€free highâ€speed wideâ€field imaging of single microtubules using interference reflection0.86917microscopy. Journal of Microscopy, 2018, 272, 60-66.0.869

¹⁸Phragmoplast Orienting Kinesin 2 Is a Weak Motor Switching between Processive and Diffusive Modes.
Biophysical Journal, 2018, 115, 375-385.0.229

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|----|--|------|-----------|
| 19 | Determination of rotation in the pitch degree of freedom for a spherical birefringent particle. , 2018, , | | 0 |
| 20 | Kinesin rotates unidirectionally and generates torque while walking on microtubules. Proceedings of the United States of America, 2017, 114, 10894-10899. | 3.3 | 84 |
| 21 | Developmentally Regulated GTP binding protein 1 (DRG1) controls microtubule dynamics. Scientific Reports, 2017, 7, 9996. | 1.6 | 26 |
| 22 | Implementation and Tuning of an Optical Tweezers Force-Clamp Feedback System. Methods in Molecular Biology, 2017, 1486, 109-136. | 0.4 | 9 |
| 23 | Custom-Made Microspheres for Optical Tweezers. Methods in Molecular Biology, 2017, 1486, 137-155. | 0.4 | 7 |
| 24 | Improved antireflection coated microspheres for biological applications of optical tweezers. Proceedings of SPIE, 2016, , . | 0.8 | 2 |
| 25 | Directed Rotational Motion of Birefringent Particles by Randomly Changing the Barrier Height at the Threshold in a Washboard Potential. Current Science, 2016, 111, 2005. | 0.4 | 4 |
| 26 | A Single-Strand Annealing Protein Clamps DNA to Detect and Secure Homology. PLoS Biology, 2015, 13, e1002213. | 2.6 | 22 |
| 27 | The Kinesin-8 Kip3 Switches Protofilaments in a Sideward Random Walk Asymmetrically Biased by Force. Biophysical Journal, 2015, 108, 2019-2027. | 0.2 | 36 |
| 28 | Enzyme-Powered Hollow Mesoporous Janus Nanomotors. Nano Letters, 2015, 15, 7043-7050. | 4.5 | 366 |
| 29 | Versatile microsphere attachment of GFP-labeled motors and other tagged proteins with preserved functionality. Journal of Biological Methods, 2015, 2, e30. | 1.0 | 19 |
| 30 | Kinesin Kip2 enhances microtubule growth in vitro through length-dependent feedback on polymerization and catastrophe. ELife, 2015, 4, . | 2.8 | 44 |
| 31 | A Single-Strand Annealing Protein Clamps DNA to Detect Homology. Biophysical Journal, 2014, 106, 693a. | 0.2 | 0 |
| 32 | Kinesin-8 Is a Low-Force Motor Protein with a Weakly Bound Slip State. Biophysical Journal, 2013, 104, 2456-2464. | 0.2 | 57 |
| 33 | The growth speed of microtubules with XMAP215-coated beads coupled to their ends is increased by tensile force. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14670-14675. | 3.3 | 44 |
| 34 | A Nanonewton Optical Force Trap. , 2013, , . | | 0 |
| 35 | Nanonewton optical force trap employing anti-reflection coated, high-refractive-index titania microspheres. Nature Photonics, 2012, 6, 469-473. | 15.6 | 108 |
| 36 | Seeded Growth of Titania Colloids with Refractive Index Tunability and Fluorophore-Free Luminescence. Langmuir, 2011, 27, 1626-1634. | 1.6 | 23 |

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|----|---|-----|-----------|
| 37 | Under-filling trapping objectives optimizes the use of the available laser power in optical tweezers. Optics Express, 2011, 19, 11759. | 1.7 | 60 |
| 38 | Measuring the complete force field of an optical trap. Optics Letters, 2011, 36, 1260. | 1.7 | 69 |
| 39 | Inertial Effects of a Small Brownian Particle Cause a Colored Power Spectral Density of Thermal Noise. Physical Review Letters, 2011, 107, 228301. | 2.9 | 59 |
| 40 | Functional Surface Attachment in a Sandwich Geometry of GFP-Labeled Motor Proteins. Methods in Molecular Biology, 2011, 778, 11-18. | 0.4 | 2 |
| 41 | Breaking of bonds between a kinesin motor and microtubules causes protein friction. , 2010, , . | | 3 |
| 42 | Microtubule Dynamics Reconstituted In Vitro and Imaged by Single-Molecule Fluorescence Microscopy. Methods in Cell Biology, 2010, 95, 221-245. | 0.5 | 239 |
| 43 | Protein Friction Limits Diffusive and Directed Movements of Kinesin Motors on Microtubules. Science, 2009, 325, 870-873. | 6.0 | 196 |
| 44 | Optical tweezers with millikelvin precision of temperature-controlled objectives and base-pair resolution. Optics Express, 2009, 17, 17190. | 1.7 | 67 |
| 45 | Optical trapping of coated microspheres. Biophysical Journal, 2009, 96, 644a. | 0.2 | 13 |
| 46 | Optical trapping of coated microspheres. Optics Express, 2008, 16, 13831. | 1.7 | 88 |
| 47 | Coated microspheres as enhanced probes for optical trapping. , 2008, , . | | 7 |
| 48 | Surface Forces and Drag Coefficients of Microspheres near a Plane Surface Measured with Optical Tweezers. Langmuir, 2007, 23, 3654-3665. | 1.6 | 220 |
| 49 | LED illumination for videoâ€enhanced DIC imaging of single microtubules. Journal of Microscopy, 2007, 226, 1-5. | 0.8 | 50 |
| 50 | Calibration of optical tweezers with positional detection in the back focal plane. Review of Scientific Instruments, 2006, 77, 103101. | 0.6 | 294 |
| 51 | Molecular Forces Caused by the Confinement of Thermal Noise. Physical Review Letters, 2004, 92, 156102. | 2.9 | 39 |
| 52 | Dynamic domain formation in membranes: Thickness-modulation-induced phase separation. European Physical Journal E, 2004, 14, 169-175. | 0.7 | 18 |
| 53 | Self-organized organic nanostructures: structure formation in thin polymer blend films. Surface and Interface Analysis, 2004, 36, 195-196. | 0.8 | 2 |
| 54 | Capillary instabilities by fluctuation induced forces. European Physical Journal E, 2003, 12, 375-381. | 0.7 | 23 |

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|----|---|------|-----------|
| 55 | The Distribution of Active Force Generators Controls Mitotic Spindle Position. Science, 2003, 301, 518-521. | 6.0 | 351 |
| 56 | Aspects of electrohydrodynamic instabilities at polymer interfaces. Fibers and Polymers, 2003, 4, 1-7. | 1.1 | 15 |
| 57 | Thermomechanical Lithography: Pattern Replication Using a Temperature Gradient Driven Instability. Advanced Materials, 2003, 15, 514-517. | 11.1 | 86 |
| 58 | Hierarchical structure formation and pattern replication induced by an electric field. Nature Materials, 2003, 2, 48-52. | 13.3 | 258 |
| 59 | Morphological Instability of a Confined Polymer Film in a Thermal Gradient. Macromolecules, 2003, 36, 1645-1655. | 2.2 | 78 |
| 60 | Pattern Replication by Confined Dewetting. Langmuir, 2003, 19, 9714-9718. | 1.6 | 55 |
| 61 | Temperature-gradient–induced instability in polymer films. Europhysics Letters, 2002, 60, 255-261. | 0.7 | 63 |
| 62 | Electric Field Induced Dewetting at Polymer/Polymer Interfaces. Macromolecules, 2002, 35, 6255-6262. | 2.2 | 100 |
| 63 | Structure Formation at the Interface of Liquid/Liquid Bilayer in Electric Field. Macromolecules, 2002, 35, 3971-3976. | 2.2 | 151 |
| 64 | Acoustic instabilities in thin polymer films. European Physical Journal E, 2002, 8, 347-351. | 0.7 | 28 |
| 65 | Electric field induced instabilities at liquid/liquid interfaces. Journal of Chemical Physics, 2001, 114, 2377-2381. | 1.2 | 184 |
| 66 | Spreading Dynamics of Polydimethylsiloxane Drops: Crossover from Laplace to Van der Waals Spreading. Journal of Colloid and Interface Science, 2001, 234, 178-193. | 5.0 | 44 |
| 67 | Electrohydrodynamic instabilities in polymer films. Europhysics Letters, 2001, 53, 518-524. | 0.7 | 275 |
| 68 | Electrically induced structure formation and pattern transfer. Nature, 2000, 403, 874-877. | 13.7 | 738 |
| 69 | Contact line dynamics near the pinning threshold: A capillary rise and fall experiment. Physical Review E, 2000, 61, 5257-5277. | 0.8 | 91 |
| 70 | Nanophase-Separated Polymer Films as High-Performance Antireflection Coatings. Science, 1999, 283, 520-522. | 6.0 | 649 |
| 71 | Dynamics of Contact Line Pinning in Capillary Rise and Fall. Physical Review Letters, 1998, 80, 3069-3072. | 2.9 | 62 |
| 72 | Dynamics of Air-Water Contact Lines and Interfaces Near the Pinning Threshold. Materials Research Society Symposia Proceedings, 1996, 464, 351. | 0.1 | 0 |