List of Publications by Year in descending order

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FDKAN TUZEL

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Shifting the optimal stiffness for cell migration. Nature Communications, 2017, 8, 15313. | 12.8 | 217 |
| 2 | Myosin XI Is Essential for Tip Growth in <i>Physcomitrella patens</i> Â. Plant Cell, 2010, 22, 1868-1882. | 6.6 | 142 |
| 3 | Selection of Functional Human Sperm with Higher DNA Integrity and Fewer Reactive Oxygen Species. Advanced Healthcare Materials, 2014, 3, 1671-1679. | 7.6 | 98 |
| 4 | Exhaustion of Racing Sperm in Natureâ€Mimicking Microfluidic Channels During Sorting. Small, 2013, 9, 3374-3384. | 10.0 | 96 |
| 5 | Anterograde Microtubule Transport Drives Microtubule Bending in LLC-PK1 Epithelial Cells. Molecular Biology of the Cell, 2009, 20, 2943-2953. | 2.1 | 83 |
| 6 | Transport by Populations of Fast and Slow Kinesins Uncovers Novel Family-Dependent Motor Characteristics Important for InÂVivo Function. Biophysical Journal, 2014, 107, 1896-1904. | 0.5 | 83 |
| 7 | Motor transport of self-assembled cargos in crowded environments. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20814-20819. | 7.1 | 82 |
| 8 | Actin Interacting Protein1 and Actin Depolymerizing Factor Drive Rapid Actin Dynamics in <i>Physcomitrella patens</i> Â. Plant Cell, 2011, 23, 3696-3710. | 6.6 | 70 |
| 9 | A Perspective on the Role of Myosins as Mechanosensors. Biophysical Journal, 2016, 110, 2568-2576. | 0.5 | 64 |
| 10 | Loop formation of microtubules during gliding at high density. Journal of Physics Condensed Matter, 2011, 23, 374104. | 1.8 | 55 |
| 11 | Guidance and Selfâ€ S orting of Active Swimmers: 3D Periodic Arrays Increase Persistence Length of Human Sperm Selecting for the Fittest. Advanced Science, 2018, 5, 1700531. | 11.2 | 53 |
| 12 | Quantitative analysis of organelle distribution and dynamics in Physcomitrella patens protonemal cells. BMC Plant Biology, 2012, 12, 70. | 3.6 | 48 |
| 13 | Apical myosin <scp>XI</scp> anticipates <scp>F</scp> â€actin during polarized growth of <i><scp>P</scp>hyscomitrella patens</i> cells. Plant Journal, 2013, 73, 417-428. | 5.7 | 47 |
| 14 | Motor Dynamics Underlying Cargo Transport by Pairs of Kinesin-1 and Kinesin-3 Motors. Biophysical Journal, 2019, 116, 1115-1126. | 0.5 | 45 |
| 15 | Consistent particle-based algorithm with a non-ideal equation of state. Europhysics Letters, 2006, 73, 664-670. | 2.0 | 41 |
| 16 | Analysis of Microtubule Curvature. Methods in Cell Biology, 2007, 83, 237-268. | 1.1 | 40 |
| 17 | Mesoscopic model for the fluctuating hydrodynamics of binary and ternary mixtures. Europhysics Letters, 2007, 80, 40010. | 2.0 | 31 |
| 18 | Taking another look with fluorescence microscopy: Image processing techniques in Langmuir monolayers for the twenty-first century. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1289-1300. | 2.6 | 30 |

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|----|--|-----|-----------|
| 19 | F-Actin Mediated Focusing of Vesicles at the Cell Tip Is Essential for Polarized Growth. Plant Physiology, 2018, 176, 352-363. | 4.8 | 30 |
| 20 | Force Generation by Membrane-Associated Myosin-I. Scientific Reports, 2016, 6, 25524. | 3.3 | 28 |
| 21 | The kinesinâ€like proteins, KAC1/2, regulate actin dynamics underlying chloroplast lightâ€avoidance in <i>Physcomitrella patens</i> . Journal of Integrative Plant Biology, 2015, 57, 106-119. | 8.5 | 27 |
| 22 | Eg5 Inhibitors Have Contrasting Effects on Microtubule Stability and Metaphase Spindle Integrity. ACS Chemical Biology, 2017, 12, 1038-1046. | 3.4 | 27 |
| 23 | Invadopodia-mediated ECM degradation is enriched in the G1 phase of the cell cycle. Journal of Cell Science, 2019, 132, . | 2.0 | 25 |
| 24 | Microtubule binding kinetics of membrane-bound kinesin-1 predicts high motor copy numbers on intracellular cargo. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26564-26570. | 7.1 | 22 |
| 25 | TESTING A HYPOTHESIS FOR THE EVOLUTION OF SEX. International Journal of Modern Physics C, 2000, 11, 973-986. | 1.7 | 13 |
| 26 | Constructing thermodynamically consistent models with a non-ideal equation of state. Mathematics and Computers in Simulation, 2006, 72, 232-236. | 4.4 | 12 |
| 27 | Dynamics of thermally driven capillary waves for two-dimensional droplets. Journal of Chemical Physics, 2010, 132, 174701. | 3.0 | 12 |
| 28 | Characterization of Cell Boundary and Confocal Effects Improves Quantitative FRAP Analysis. Biophysical Journal, 2018, 114, 1153-1164. | 0.5 | 12 |
| 29 | Kinesin-2 from C.Âreinhardtii Is an Atypically Fast and Auto-inhibited Motor that Is Activated by Heterotrimerization for Intraflagellar Transport. Current Biology, 2020, 30, 1160-1166.e5. | 3.9 | 11 |
| 30 | Quantitative cell biology of tip growth in moss. Plant Molecular Biology, 2021, 107, 227-244. | 3.9 | 11 |
| 31 | Strategies for the evolution of sex. Physical Review E, 2001, 64, 061908. | 2.1 | 9 |
| 32 | <i>In vivo</i> Interactions between myosin XI, vesicles, and filamentous actin are fast and transient. Journal of Cell Science, 2020, 133, . | 2.0 | 9 |
| 33 | Glassy dynamics of protein folding. Physical Review E, 2000, 61, R1040-R1043. | 2.1 | 7 |
| 34 | Measurement of the persistence length of cytoskeletal filaments using curvature distributions. Biophysical Journal, 2022, 121, 1813-1822. | 0.5 | 7 |
| 35 | Monitoring Neutropenia for Cancer Patients at the Point of Care. Small Methods, 2017, 1, 1700193. | 8.6 | 4 |
| 36 | Re-track: Software to analyze the retraction and protrusion velocities of neurites, filopodia and other structures. Analytical Biochemistry, 2020, 596, 113626. | 2.4 | 4 |

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|----|---|-----|-----------|
| 37 | Myosin XI drives polarized growth by vesicle focusing and local enrichment of F-actin in <i>Physcomitrium patens</i> . Plant Physiology, 2021, 187, 2509-2529. | 4.8 | 4 |
| 38 | Static and dynamic properties of a particle-based algorithm for non-ideal fluids and binary mixtures. Progress in Computational Fluid Dynamics, 2008, 8, 138. | 0.2 | 3 |
| 39 | Hydrophobic models of protein folding and the thermodynamics of chain-boundary interactions. Brazilian Journal of Physics, 2003, 33, 573-588. | 1.4 | 3 |
| 40 | Dissipative Dynamics and the Statistics of Energy States of a Hookean Model for Protein Folding. Journal of Statistical Physics, 2000, 100, 405-422. | 1.2 | 2 |
| 41 | Monitoring Diffusion of Reptating Polymer Chains by a Direct Energy Transfer Method: A Monte Carlo Simulation. Macromolecular Theory and Simulations, 2002, 11, 678. | 1.4 | 2 |
| 42 | Organelle Dynamics: A Tale of Fusing Nucleoli. Current Biology, 2011, 21, R395-R397. | 3.9 | 2 |
| 43 | Accelerating a novel particle-based fluid simulation on the GPU. , 2013, , . | | 2 |
| 44 | Understanding Boundary Effects and Confocal Optics Enables Quantitative FRAP Analysis in the Confined Geometries of Animal, Plant and Fungal Cells. Biophysical Journal, 2018, 114, 349a-350a. | 0.5 | 2 |
| 45 | A GPU accelerated virtual scanning confocal microscope. , 2014, , . | | 1 |
| 46 | Eg5 Inhibitors have Contrasting Effects on Microtubule Stability and Spindle Integrity Depending on their Modes of Action. Biophysical Journal, 2017, 112, 427a-428a. | 0.5 | 1 |
| 47 | Modeling of Motor Mediated Microtubule Bending. Biophysical Journal, 2009, 96, 572a. | 0.5 | 0 |
| 48 | Lipid Monolayer Experiments and Simulations to Extract Line Tension. Biophysical Journal, 2009, 96, 349a. | 0.5 | 0 |
| 49 | Lipid Monolayer Line Tension Measurements and Model Convolution. Biophysical Journal, 2010, 98, 275a. | 0.5 | 0 |
| 50 | Coarse-Grained Modeling of Organelle Motility in Living Cells. Biophysical Journal, 2011, 100, 600a. | 0.5 | 0 |
| 51 | Coarse-Grained Model of Cooperative Chloroplast Transport in Moss. Biophysical Journal, 2012, 102, 378a. | 0.5 | 0 |
| 52 | Microtubule Motor Traffic Jams. Biophysical Journal, 2012, 102, 368a. | 0.5 | 0 |
| 53 | Experimental and Computational Investigations into Cooperative Cargo Transport by Mixtures of Kinesins from Different Families. Biophysical Journal, 2013, 104, 325a. | 0.5 | 0 |
| 54 | Microtubule Dependent Anomalous Diffusion of Chloroplasts in Moss. Biophysical Journal, 2013, 104, 650a-651a. | 0.5 | 0 |

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|----|--|------|-----------|
| 55 | Motility of Self-Assembled Quantum Dot Cargos. Biophysical Journal, 2013, 104, 650a. | 0.5 | 0 |
| 56 | Microfluidic Sorting: Exhaustion of Racing Sperm in Natureâ€Mimicking Microfluidic Channels During Sorting (Small 20/2013). Small, 2013, 9, 3366-3366. | 10.0 | 0 |
| 57 | Cooperative Transport by Populations of Fast and Slow Kinesins Uncovers Novel Family-Dependent Motor Characteristics Important for in vivo Function. Biophysical Journal, 2015, 108, 136a. | 0.5 | 0 |
| 58 | Force Generation by Membrane-Associated Myosin-I. Biophysical Journal, 2016, 110, 467a. | 0.5 | 0 |
| 59 | Modeling Cargo Transport by Pairs of Kinesin-1 and -3 Motors. Biophysical Journal, 2017, 112, 263a. | 0.5 | 0 |
| 60 | Measurement of the Persistence Length of Cytoskeletal Filaments using Curvature Distributions. Biophysical Journal, 2017, 112, 566a. | 0.5 | 0 |
| 61 | Boundary Effects in FRAP Recovery in the Confined Geometries of Animal, Plant and Fungal Cells. Biophysical Journal, 2017, 112, 583a. | 0.5 | 0 |
| 62 | Microfluidics: Guidance and Selfâ€6orting of Active Swimmers: 3D Periodic Arrays Increase Persistence Length of Human Sperm Selecting for the Fittest (Adv. Sci. 2/2018). Advanced Science, 2018, 5, 1870008. | 11.2 | 0 |
| 63 | F-Actin Meditated Focusing of Vesicles at the Cell Tip is Essential for Polarized Growth. Biophysical Journal, 2018, 114, 648a. | 0.5 | 0 |
| 64 | Three-Dimensional Model of Cooperative Transport of Pairs of Kinesin-1 and â^2 Motors. Biophysical Journal, 2019, 116, 407a. | 0.5 | 0 |
| 65 | Binding Kinetics between Membrane-Bound Kinesin Motors and Microtubules. Biophysical Journal, 2019, 116, 411a. | 0.5 | 0 |
| 66 | THE DISSIPATIVE DYNAMICS AND RELAXATION BEHAVIOR OF A GENERIC MODEL FOR HYDROPHOBIC COLLAPSE. , 2000, , 205-227. | | 0 |