

Sean X Sun

List of Publications by Year in descending order

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Version: 2024-02-01

152
papers

7,316
citations

61687

45
h-index

73587

79
g-index

165
all docs

165
docs citations

165
times ranked

8118
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The correlation between cell and nucleus size is explained by an eukaryotic cell growth model. <i>PLoS Computational Biology</i> , 2022, 18, e1009400. | 1.5 | 28 |
| 2 | Fundamental mechanics of cell shape and cell movement. , 2022, , 85-100. | | 1 |
| 3 | Directing Multicellular Organization by Varying the Aspect Ratio of Soft Hydrogel Microwells. <i>Advanced Science</i> , 2022, 9, e2104649. | 5.6 | 12 |
| 4 | Kidney epithelial cells are active mechano-biological fluid pumps. <i>Nature Communications</i> , 2022, 13, 2317. | 5.8 | 23 |
| 5 | Trans-epithelial fluid flow and mechanics of epithelial morphogenesis. <i>Seminars in Cell and Developmental Biology</i> , 2022, 131, 146-159. | 2.3 | 5 |
| 6 | Stiffening Matrix Induces Age- Mediated Microvascular Phenotype Through Increased Cell Contractility and Destabilization of Adherens Junctions. <i>Advanced Science</i> , 2022, 9, . | 5.6 | 17 |
| 7 | Hydraulic resistance induces cell phenotypic transition in confinement. <i>Science Advances</i> , 2021, 7, . | 4.7 | 17 |
| 8 | Hydrogen, Bicarbonate, and Their Associated Exchangers in Cell Volume Regulation. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 683686. | 1.8 | 11 |
| 9 | Growth and site-specific organization of micron-scale biomolecular devices on living mammalian cells. <i>Nature Communications</i> , 2021, 12, 5729. | 5.8 | 6 |
| 10 | The importance of water and hydraulic pressure in cell dynamics. <i>Journal of Cell Science</i> , 2020, 133, . | 1.2 | 57 |
| 11 | Prolonged culture in aerobic environments alters <i>Escherichia coli</i> H ₂ production capacity. <i>Engineering Reports</i> , 2020, 2, e12161. | 0.9 | 0 |
| 12 | Active random forces can drive differential cellular positioning and enhance motor-driven transport. <i>Molecular Biology of the Cell</i> , 2020, 31, 2283-2288. | 0.9 | 2 |
| 13 | Dynamic organelle distribution initiates actin-based spindle migration in mouse oocytes. <i>Nature Communications</i> , 2020, 11, 277. | 5.8 | 44 |
| 14 | Symmetry breaking in hydrodynamic forces drives meiotic spindle rotation in mammalian oocytes. <i>Science Advances</i> , 2020, 6, eaaz5004. | 4.7 | 29 |
| 15 | CTRL: a label-free method for dynamic measurement of single-cell volume. <i>Journal of Cell Science</i> , 2020, 133, . | 1.2 | 7 |
| 16 | Single Cell Volume Measurement Utilizing the Fluorescence Exclusion Method (FXm). <i>Bio-protocol</i> , 2020, 10, e3652. | 0.2 | 2 |
| 17 | Biophysics at the coffee shop: lessons learned working with George Oster. <i>Molecular Biology of the Cell</i> , 2019, 30, 1882-1889. | 0.9 | 4 |
| 18 | Cell sensing and decision-making in confinement: The role of TRPM7 in a tug of war between hydraulic pressure and cross-sectional area. <i>Science Advances</i> , 2019, 5, eaaw7243. | 4.7 | 56 |

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|----|---|------|-----------|
| 19 | Confinement hinders motility by inducing RhoA-mediated nuclear influx, volume expansion, and blebbing. <i>Journal of Cell Biology</i> , 2019, 218, 4093-4111. | 2.3 | 64 |
| 20 | YAP and TAZ regulate cell volume. <i>Journal of Cell Biology</i> , 2019, 218, 3472-3488. | 2.3 | 39 |
| 21 | Cell Type Classification and Unsupervised Morphological Phenotyping From Low-Resolution Images Using Deep Learning. <i>Scientific Reports</i> , 2019, 9, 13467. | 1.6 | 31 |
| 22 | Hypo-osmotic-like stress underlies general cellular defects of aneuploidy. <i>Nature</i> , 2019, 570, 117-121. | 13.7 | 66 |
| 23 | Response of collagen matrices under pressure and hydraulic resistance in hydrogels. <i>Soft Matter</i> , 2019, 15, 2617-2626. | 1.2 | 14 |
| 24 | Microscale pressure measurements based on an immiscible fluid/fluid interface. <i>Scientific Reports</i> , 2019, 9, 20044. | 1.6 | 6 |
| 25 | On the energy efficiency of cell migration in diverse physical environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23894-23900. | 3.3 | 40 |
| 26 | Role of membrane-tension gated Ca flux in cell mechanosensation. <i>Journal of Cell Science</i> , 2018, 131, . | 1.2 | 36 |
| 27 | Ergodicity, hidden bias and the growth rate gain. <i>Physical Biology</i> , 2018, 15, 036006. | 0.8 | 10 |
| 28 | Epithelial vertex models with active biochemical regulation of contractility can explain organized collective cell motility. <i>APL Bioengineering</i> , 2018, 2, 031906. | 3.3 | 35 |
| 29 | Mechanical Tension Serves as a Late G1 Cell Cycle Checkpoint. <i>Biophysical Journal</i> , 2018, 114, 112a. | 0.2 | 0 |
| 30 | Building the space elevator: lessons from biological design. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180086. | 1.5 | 7 |
| 31 | Cytoskeletal tension regulates mesodermal spatial organization and subsequent vascular fate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8167-8172. | 3.3 | 35 |
| 32 | Electromechanics and Volume Dynamics in Nonexcitable Tissue Cells. <i>Biophysical Journal</i> , 2018, 114, 2231-2242. | 0.2 | 25 |
| 33 | Cell tension and mechanical regulation of cell volume. <i>Molecular Biology of the Cell</i> , 2018, 29, 0-0. | 0.9 | 64 |
| 34 | Transition from Actin-Driven to Water-Driven Cell Migration Depends on External Hydraulic Resistance. <i>Biophysical Journal</i> , 2018, 114, 2965-2973. | 0.2 | 35 |
| 35 | The Interplay of Osmotic Engine Model and Actin Polymerization in Confined Cell Migration. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, SY87-1. | 0.0 | 0 |
| 36 | Cell mechanics: a dialogue. <i>Reports on Progress in Physics</i> , 2017, 80, 036601. | 8.1 | 36 |

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|----|---|-----|-----------|
| 37 | Risk of mood disorders in patients with colorectal cancer. <i>Journal of Affective Disorders</i> , 2017, 218, 59-65. | 2.0 | 20 |
| 38 | Going with the Flow: Water Flux and Cell Shape during Cytokinesis. <i>Biophysical Journal</i> , 2017, 113, 2487-2495. | 0.2 | 17 |
| 39 | Cell-Substrate Interaction Determines Cellular Volume and Shape. <i>Biophysical Journal</i> , 2016, 110, 307a. | 0.2 | 0 |
| 40 | To grow is not enough: impact of noise on cell environmental response and fitness. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 1030-1039. | 0.6 | 15 |
| 41 | Cell density and actomyosin contractility control the organization of migrating collectives within an epithelium. <i>Molecular Biology of the Cell</i> , 2016, 27, 3459-3470. | 0.9 | 36 |
| 42 | Mechanical Regulation of Nuclear Shape and Volume. <i>Biophysical Journal</i> , 2016, 110, 96a. | 0.2 | 0 |
| 43 | The twisted tauopathies: surface interactions of helically patterned filaments seen in alzheimer's disease and elsewhere. <i>Soft Matter</i> , 2016, 12, 779-789. | 1.2 | 6 |
| 44 | Electomechanical Model for Non-Excitable Cells. <i>Biophysical Journal</i> , 2015, 108, 141a. | 0.2 | 0 |
| 45 | Comparison of Stochastic Simulation Methods in Mechanobiology. <i>Biophysical Journal</i> , 2015, 108, 304a. | 0.2 | 0 |
| 46 | Flow-Driven Cell Migration under External Electric Fields. <i>Physical Review Letters</i> , 2015, 115, 268101. | 2.9 | 23 |
| 47 | 371. AAV-Based Gene Therapy in a Mouse Model of Smith Lemli Opitz Syndrome (SLOS). <i>Molecular Therapy</i> , 2015, 23, S147. | 3.7 | 0 |
| 48 | Bacterial Growth and Shape Regulation by External Compression. <i>Biophysical Journal</i> , 2015, 108, 600a. | 0.2 | 0 |
| 49 | Collective cancer cell invasion induced by coordinated contractile stresses. <i>Oncotarget</i> , 2015, 6, 43438-43451. | 0.8 | 70 |
| 50 | Flow-Driven Cell Motility under Electrical Fields. <i>Biophysical Journal</i> , 2015, 108, 457a-458a. | 0.2 | 0 |
| 51 | The potential and electric field in the cochlear outer hair cell membrane. <i>Medical and Biological Engineering and Computing</i> , 2015, 53, 405-413. | 1.6 | 9 |
| 52 | Volume regulation and shape bifurcation in the cell nucleus. <i>Journal of Cell Science</i> , 2015, 128, 3375-85. | 1.2 | 104 |
| 53 | Bacterial growth and form under mechanical compression. <i>Scientific Reports</i> , 2015, 5, 11367. | 1.6 | 52 |
| 54 | Stochasticity and Spatial Interaction Govern Stem Cell Differentiation Dynamics. <i>Scientific Reports</i> , 2015, 5, 12617. | 1.6 | 24 |

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|----|--|------|-----------|
| 55 | Active Biochemical Regulation of Cell Volume and a Simple Model of Cell Tension Response. <i>Biophysical Journal</i> , 2015, 109, 1541-1550. | 0.2 | 63 |
| 56 | To Grow is not Enough: The Impact of Cell Response Time on Fitness. <i>Biophysical Journal</i> , 2015, 108, 613a. | 0.2 | 0 |
| 57 | Water Permeation Drives Tumor Cell Migration in Confined Microenvironments. <i>Cell</i> , 2014, 157, 611-623. | 13.5 | 416 |
| 58 | How Accurately Can a Single Receptor Measure Ligand Concentrations?. <i>Biophysical Journal</i> , 2014, 106, 778-779. | 0.2 | 2 |
| 59 | Active Regulation of Cellular Membrane Tension. <i>Biophysical Journal</i> , 2014, 106, 705a. | 0.2 | 0 |
| 60 | Bioengineering paradigms for cell migration in confined microenvironments. <i>Current Opinion in Cell Biology</i> , 2014, 30, 41-50. | 2.6 | 37 |
| 61 | Coherent Motions in Confluent Cell Monolayer Sheets. <i>Biophysical Journal</i> , 2014, 107, 1532-1541. | 0.2 | 105 |
| 62 | Three-dimensional cell migration does not follow a random walk. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3949-3954. | 3.3 | 281 |
| 63 | Mechanochemical regulation of oscillatory follicle cell dynamics in the developing <i>Drosophila</i> egg chamber. <i>Molecular Biology of the Cell</i> , 2014, 25, 3709-3716. | 0.9 | 40 |
| 64 | Modeling Follicle Cell Length Oscillations During Tissue Elongation in <i>Drosophila</i> Egg Chamber. <i>Biophysical Journal</i> , 2014, 106, 173a. | 0.2 | 0 |
| 65 | Electromechanical Model for Eukaryotic Cells. <i>Biophysical Journal</i> , 2014, 106, 574a. | 0.2 | 1 |
| 66 | Coherent Cell Rotation in Confluent Monolayer Sheets. <i>Biophysical Journal</i> , 2014, 106, 788a. | 0.2 | 0 |
| 67 | Modeling How Epidermal Homeostasis is Achieved. <i>Biophysical Journal</i> , 2014, 106, 380a. | 0.2 | 0 |
| 68 | The Local Forces Acting on the Mechanotransduction Channel in Hair Cell Stereocilia. <i>Biophysical Journal</i> , 2014, 106, 2519-2528. | 0.2 | 24 |
| 69 | Jet Propulsion Model of Cell Motility in Confined Spaces. <i>Biophysical Journal</i> , 2013, 104, 147a-148a. | 0.2 | 0 |
| 70 | Organization of FtsZ Filaments in the Bacterial Division Ring Measured from Polarized Fluorescence Microscopy. <i>Biophysical Journal</i> , 2013, 105, 1976-1986. | 0.2 | 30 |
| 71 | Functional interplay between the cell cycle and cell phenotypes. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 523-534. | 0.6 | 23 |
| 72 | Dynamics of Focal Adhesions. <i>Biophysical Journal</i> , 2013, 104, 319a. | 0.2 | 0 |

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|----|---|-----|-----------|
| 73 | Cellular Pressure and Volume Regulation and Implications for Cell Mechanics. Biophysical Journal, 2013, 104, 479a-480a. | 0.2 | 2 |
| 74 | Cellular Pressure and Volume Regulation and Implications for Cell Mechanics. Biophysical Journal, 2013, 105, 609-619. | 0.2 | 170 |
| 75 | Simple Stochastic Models for Cell Division. Biophysical Journal, 2013, 104, 511a. | 0.2 | 1 |
| 76 | Investigation of Ht1080 Tumor Growth Dynamics and ECM Invasion in 3D. Biophysical Journal, 2013, 104, 322a. | 0.2 | 0 |
| 77 | Simultaneously defining cell phenotypes, cell cycle, and chromatin modifications at single-cell resolution. FASEB Journal, 2013, 27, 2667-2676. | 0.2 | 24 |
| 78 | Initial spatio-temporal domain expansion of the Modelfest database. , 2013, , . | | 0 |
| 79 | Age-dependent stochastic models for understanding population fluctuations in continuously cultured cells. Journal of the Royal Society Interface, 2013, 10, 20130325. | 1.5 | 45 |
| 80 | The distinct roles of the nucleus and nucleus-cytoskeleton connections in three-dimensional cell migration. Scientific Reports, 2012, 2, 488. | 1.6 | 136 |
| 81 | Actin cap associated focal adhesions and their distinct role in cellular mechanosensing. Scientific Reports, 2012, 2, 555. | 1.6 | 159 |
| 82 | Stereocilia Membrane Deformation: Implications for the Gating Spring and Mechanotransduction Channel. Biophysical Journal, 2012, 102, 201-210. | 0.2 | 55 |
| 83 | A Two-State Eukaryotic Cell Migration Model. Biophysical Journal, 2012, 102, 347a. | 0.2 | 1 |
| 84 | Growth of curved and helical bacterial cells. Soft Matter, 2012, 8, 7446. | 1.2 | 10 |
| 85 | Mechanochemical models of processive molecular motors. Molecular Physics, 2012, 110, 1017-1034. | 0.8 | 7 |
| 86 | Growth of Curved and Helical Bacterial Cells. Biophysical Journal, 2012, 102, 150a. | 0.2 | 0 |
| 87 | A Mechanochemical Model of Actin Filaments. Biophysical Journal, 2012, 103, 719-727. | 0.2 | 40 |
| 88 | Effect of membrane mechanics on charge transfer by the membrane protein prestin. Biomechanics and Modeling in Mechanobiology, 2012, 11, 107-118. | 1.4 | 5 |
| 89 | Modeling the Mechanical Property of Single Actin Filament. Biophysical Journal, 2011, 100, 299a. | 0.2 | 0 |
| 90 | Mechanical Control of Bacterial Cell Shape. Biophysical Journal, 2011, 101, 327-335. | 0.2 | 59 |

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|-----|---|-----|-----------|
| 91 | Nucleation and Decay Initiation Are the Stiffness-Sensitive Phases of Focal Adhesion Maturation. <i>Biophysical Journal</i> , 2011, 101, 2919-2928. | 0.2 | 38 |
| 92 | Adhesion dynamics and durotaxis in migrating cells. <i>Physical Biology</i> , 2011, 8, 015011. | 0.8 | 79 |
| 93 | Physics of Bacterial Morphogenesis. <i>Microbiology and Molecular Biology Reviews</i> , 2011, 75, 543-565. | 2.9 | 33 |
| 94 | Cytoskeletal Cross-linking and Bundling in Motor-Independent Contraction. <i>Current Biology</i> , 2010, 20, R649-R654. | 1.8 | 85 |
| 95 | Actin Crosslinkers: Repairing the Sense of Touch. <i>Current Biology</i> , 2010, 20, R895-R896. | 1.8 | 2 |
| 96 | Ion Stopping Powers and CT Numbers. <i>Medical Dosimetry</i> , 2010, 35, 179-194. | 0.4 | 84 |
| 97 | Dynamics of the Bacterial Intermediate Filament Crescentin In Vitro and In Vivo. <i>PLoS ONE</i> , 2010, 5, e8855. | 1.1 | 20 |
| 98 | MEX-5 enrichment in the <i>C. elegans</i> early embryo mediated by differential diffusion. <i>Development (Cambridge)</i> , 2010, 137, 2579-2585. | 1.2 | 39 |
| 99 | Morphology, Growth, and Size Limit of Bacterial Cells. <i>Physical Review Letters</i> , 2010, 105, 028101. | 2.9 | 48 |
| 100 | Voltage-induced bending and electromechanical coupling in lipid bilayers. <i>Physical Review E</i> , 2010, 81, 031907. | 0.8 | 17 |
| 101 | Organization of Cellular Receptors into a Nanoscale Junction during HIV-1 Adhesion. <i>PLoS Computational Biology</i> , 2010, 6, e1000855. | 1.5 | 18 |
| 102 | A mechanical model of actin stress fiber formation and substrate elasticity sensing in adherent cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7757-7762. | 3.3 | 210 |
| 103 | Mechanical Response and Conformational Amplification in \pm -Helical Coiled Coils. <i>Biophysical Journal</i> , 2010, 99, 3895-3904. | 0.2 | 23 |
| 104 | Active force generation in cross-linked filament bundles without motor proteins. <i>Physical Review E</i> , 2010, 82, 050901. | 0.8 | 18 |
| 105 | Single Molecular Torque Measurements of Chromatin Fibers. <i>Biophysical Journal</i> , 2010, 98, 477a. | 0.2 | 0 |
| 106 | Torsional Mechanics of DNA Are Regulated by Small-Molecule Intercalation. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16929-16935. | 1.2 | 42 |
| 107 | Resolving the Role of Actomyosin Contractility in Cell Microrheology. <i>PLoS ONE</i> , 2009, 4, e7054. | 1.1 | 55 |
| 108 | Condensation of FtsZ filaments can drive bacterial cell division. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 121-126. | 3.3 | 130 |

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|-----|--|-----|-----------|
| 109 | Asymmetric enrichment of PIE-1 in the <i>Caenorhabditis elegans</i> zygote mediated by binary counterdiffusion. <i>Journal of Cell Biology</i> , 2009, 184, 473-479. | 2.3 | 49 |
| 110 | Continuum modeling of forces in growing viscoelastic cytoskeletal networks. <i>Journal of Theoretical Biology</i> , 2009, 256, 596-606. | 0.8 | 14 |
| 111 | Voltage and frequency dependence of prestin-associated charge transfer. <i>Journal of Theoretical Biology</i> , 2009, 260, 137-144. | 0.8 | 15 |
| 112 | Magnetic Tweezers Measurement of Single Molecule Torque. <i>Nano Letters</i> , 2009, 9, 1720-1725. | 4.5 | 101 |
| 113 | Morphology of <i>Caulobacter crescentus</i> and the Mechanical Role of Crescentin. <i>Biophysical Journal</i> , 2009, 96, L47-L49. | 0.2 | 16 |
| 114 | Hysteresis in cross-bridge models of muscle. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 4871. | 1.3 | 29 |
| 115 | Modeling Muscle With A Continuum Approach, New Insights Into An Old Problem. <i>Biophysical Journal</i> , 2009, 96, 615a. | 0.2 | 0 |
| 116 | Morphology of <i>C. Crescentus</i> and Crescentin. <i>Biophysical Journal</i> , 2009, 96, 519a. | 0.2 | 0 |
| 117 | MinC Spatially Controls Bacterial Cytokinesis by Antagonizing the Scaffolding Function of FtsZ. <i>Current Biology</i> , 2008, 18, 235-244. | 1.8 | 193 |
| 118 | Mapping Local Matrix Remodeling Induced by a Migrating Tumor Cell Using Three-Dimensional Multiple-Particle Tracking. <i>Biophysical Journal</i> , 2008, 95, 4077-4088. | 0.2 | 135 |
| 119 | Polymerization and Bundling Kinetics of FtsZ Filaments. <i>Biophysical Journal</i> , 2008, 95, 4045-4056. | 0.2 | 54 |
| 120 | β -Catenin mediates initial E-cadherin-dependent cell-cell recognition and subsequent bond strengthening. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18331-18336. | 3.3 | 70 |
| 121 | Chapter 23 Stochastic Modeling Methods in Cell Biology. <i>Methods in Cell Biology</i> , 2008, 89, 601-621. | 0.5 | 10 |
| 122 | Monitoring Early Fusion Dynamics of Human Immunodeficiency Virus Type 1 at Single-Molecule Resolution. <i>Journal of Virology</i> , 2008, 82, 7022-7033. | 1.5 | 49 |
| 123 | Z-ring force and cell shape during division in rod-like bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16110-16115. | 3.3 | 116 |
| 124 | Shape transitions in lipid membranes and protein mediated vesicle fusion and fission. <i>Journal of Chemical Physics</i> , 2007, 126, 095102. | 1.2 | 42 |
| 125 | Path ensembles and path sampling in nonequilibrium stochastic systems. <i>Journal of Chemical Physics</i> , 2007, 127, 104103. | 1.2 | 20 |
| 126 | Protein Geometry and Placement in the Cardiac Dyad Influence Macroscopic Properties of Calcium-Induced Calcium Release. <i>Biophysical Journal</i> , 2007, 92, 3379-3396. | 0.2 | 57 |

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|-----|--|-----|-----------|
| 127 | Bending Elasticity of Anti-Parallel β -Sheets. Biophysical Journal, 2007, 92, 1204-1214. | 0.2 | 8 |
| 128 | Mechanics and Dynamics of Actin-Driven Thin Membrane Protrusions. Biophysical Journal, 2006, 90, 65-76. | 0.2 | 162 |
| 129 | Mechanics of Enveloped Virus Entry into Host Cells. Biophysical Journal, 2006, 90, L10-L12. | 0.2 | 73 |
| 130 | Flexible Light-Chain and Helical Structure of F-Actin Explain the Movement and Step Size of Myosin-VI. Biophysical Journal, 2006, 91, 4002-4013. | 0.2 | 23 |
| 131 | Elasticity of α -Helical Coiled Coils. Physical Review Letters, 2006, 97, 248101. | 2.9 | 60 |
| 132 | Sun Replies:. Physical Review Letters, 2006, 97, . | 2.9 | 5 |
| 133 | Path Summation Formulation of the Master Equation. Physical Review Letters, 2006, 96, 210602. | 2.9 | 29 |
| 134 | The elasticity of α -helices. Journal of Chemical Physics, 2005, 122, 244912. | 1.2 | 61 |
| 135 | Dynamics of Myosin-V Processivity. Biophysical Journal, 2005, 88, 999-1008. | 0.2 | 61 |
| 136 | Dynamics of Myosin-Driven Skeletal Muscle Contraction: I. Steady-State Force Generation. Biophysical Journal, 2005, 88, 4107-4117. | 0.2 | 52 |
| 137 | Morphology of the Lamellipodium and Organization of Actin Filaments at the Leading Edge of Crawling Cells. Biophysical Journal, 2005, 89, 3589-3602. | 0.2 | 85 |
| 138 | Equilibrium free energy estimates based on nonequilibrium work relations and extended dynamics. Journal of Chemical Physics, 2004, 121, 10392-10400. | 1.2 | 27 |
| 139 | The conformational states of Mg^{2+} -ATP in water. European Biophysics Journal, 2004, 33, 29-37. | 1.2 | 48 |
| 140 | Asymmetry in the F1-ATPase and Its Implications for the Rotational Cycle. Biophysical Journal, 2004, 86, 1373-1384. | 0.2 | 53 |
| 141 | Elastic energy storage in β -sheets with application to F1-ATPase. European Biophysics Journal, 2003, 32, 676-683. | 1.2 | 52 |
| 142 | Equilibrium free energies from path sampling of nonequilibrium trajectories. Journal of Chemical Physics, 2003, 118, 5769-5775. | 1.2 | 98 |
| 143 | Statistical sampling of semiclassical distributions: Calculating quantum mechanical effects using Metropolis Monte Carlo. Journal of Chemical Physics, 2002, 117, 5522-5528. | 1.2 | 11 |
| 144 | Weighted density functional theory of the solvophobic effect. Physical Review E, 2001, 64, 021512. | 0.8 | 16 |

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|-----|---|-----|-----------|
| 145 | Model of a fluid at small and large length scales and the hydrophobic effect. <i>Physical Review E</i> , 2001, 65, 011201. | 0.8 | 61 |
| 146 | Semiclassical approximations to real-time quantum-mechanical effects in correlation functions of complex molecular systems. <i>Journal of Chemical Physics</i> , 2000, 112, 8241-8251. | 1.2 | 5 |
| 147 | Forward-backward initial value representation for semiclassical time correlation functions. <i>Journal of Chemical Physics</i> , 1999, 110, 6635-6644. | 1.2 | 195 |
| 148 | Semiclassical approximations for the calculation of thermal rate constants for chemical reactions in complex molecular systems. <i>Journal of Chemical Physics</i> , 1998, 108, 9726-9736. | 1.2 | 387 |
| 149 | Semiclassical theory of electronically nonadiabatic dynamics: Results of a linearized approximation to the initial value representation. <i>Journal of Chemical Physics</i> , 1998, 109, 7064-7074. | 1.2 | 337 |
| 150 | Semiclassical initial value representation for rotational degrees of freedom: The tunneling dynamics of HCl dimer. <i>Journal of Chemical Physics</i> , 1998, 108, 8870-8877. | 1.2 | 80 |
| 151 | Mixed semiclassical-classical approaches to the dynamics of complex molecular systems. <i>Journal of Chemical Physics</i> , 1997, 106, 916-927. | 1.2 | 156 |
| 152 | Semiclassical initial value representation for electronically nonadiabatic molecular dynamics. <i>Journal of Chemical Physics</i> , 1997, 106, 6346-6353. | 1.2 | 241 |