

David J Odde

List of Publications by Year in descending order

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Version: 2024-02-01

130
papers

7,468
citations

53660

45
h-index

62479

80
g-index

151
all docs

151
docs citations

151
times ranked

7053
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Traction Dynamics of Filopodia on Compliant Substrates. <i>Science</i> , 2008, 322, 1687-1691. | 6.0 | 759 |
| 2 | Laser-guided direct writing of living cells. <i>Biotechnology and Bioengineering</i> , 2000, 67, 312-318. | 1.7 | 277 |
| 3 | Laser-guided direct writing for applications in biotechnology. <i>Trends in Biotechnology</i> , 1999, 17, 385-389. | 4.9 | 258 |
| 4 | Laser-guided direct writing for three-dimensional tissue engineering. <i>Biotechnology and Bioengineering</i> , 2005, 92, 129-136. | 1.7 | 249 |
| 5 | Mechanochemical Model of Microtubule Structure and Self-Assembly Kinetics. <i>Biophysical Journal</i> , 2005, 89, 2911-2926. | 0.2 | 230 |
| 6 | Estimates of lateral and longitudinal bond energies within the microtubule lattice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 6035-6040. | 3.3 | 227 |
| 7 | Shifting the optimal stiffness for cell migration. <i>Nature Communications</i> , 2017, 8, 15313. | 5.8 | 217 |
| 8 | Potential for Control of Signaling Pathways via Cell Size and Shape. <i>Current Biology</i> , 2006, 16, 1685-1693. | 1.8 | 201 |
| 9 | Rapid Microtubule Self-Assembly Kinetics. <i>Cell</i> , 2011, 146, 582-592. | 13.5 | 201 |
| 10 | Determinants of Maximal Force Transmission in a Motor-Clutch Model of Cell Traction in a Compliant Microenvironment. <i>Biophysical Journal</i> , 2013, 105, 581-592. | 0.2 | 185 |
| 11 | Chromosome Congression by Kinesin-5 Motor-Mediated Disassembly of Longer Kinetochores. <i>Cell</i> , 2008, 135, 894-906. | 13.5 | 168 |
| 12 | Microtubule Assembly Dynamics at the Nanoscale. <i>Current Biology</i> , 2007, 17, 1445-1455. | 1.8 | 159 |
| 13 | Stable Kinetochores-Microtubule Attachment Constrains Centromere Positioning in Metaphase. <i>Current Biology</i> , 2004, 14, 1962-1967. | 1.8 | 144 |
| 14 | Rapid dynamics of the microtubule binding of ensconsin in vivo. <i>Journal of Cell Science</i> , 2001, 114, 3885-3897. | 1.2 | 140 |
| 15 | Tension-dependent Regulation of Microtubule Dynamics at Kinetochores Can Explain Metaphase Congression in Yeast. <i>Molecular Biology of the Cell</i> , 2005, 16, 3764-3775. | 0.9 | 124 |
| 16 | Regulation of the MEX-5 Gradient by a Spatially Segregated Kinase/Phosphatase Cycle. <i>Cell</i> , 2011, 146, 955-968. | 13.5 | 122 |
| 17 | Kinetics of microtubule catastrophe assessed by probabilistic analysis. <i>Biophysical Journal</i> , 1995, 69, 796-802. | 0.2 | 120 |
| 18 | Micropatterning of living cells by laser-guided direct writing: application to fabrication of hepatic endothelial sinusoid-like structures. <i>Nature Protocols</i> , 2006, 1, 2288-2296. | 5.5 | 117 |

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|----|--|------|-----------|
| 19 | Evolving Tip Structures Can Explain Age-Dependent Microtubule Catastrophe. <i>Current Biology</i> , 2013, 23, 1342-1348. | 1.8 | 116 |
| 20 | Enhanced substrate stress relaxation promotes filopodia-mediated cell migration. <i>Nature Materials</i> , 2021, 20, 1290-1299. | 13.3 | 111 |
| 21 | Integrin-mediated traction force enhances paxillin molecular associations and adhesion dynamics that increase the invasiveness of tumor cells into a three-dimensional extracellular matrix. <i>Molecular Biology of the Cell</i> , 2017, 28, 1467-1488. | 0.9 | 110 |
| 22 | Tensile Force-Dependent Neurite Elicitation via Anti- β 1 Integrin Antibody-Coated Magnetic Beads. <i>Biophysical Journal</i> , 2003, 85, 623-636. | 0.2 | 102 |
| 23 | Dynein Tethers and Stabilizes Dynamic Microtubule Plus Ends. <i>Current Biology</i> , 2012, 22, 632-637. | 1.8 | 102 |
| 24 | Estimating the Microtubule GTP Cap Size In Vivo. <i>Current Biology</i> , 2012, 22, 1681-1687. | 1.8 | 101 |
| 25 | Mechanisms of Microtubule-Based Kinetochores Positioning in the Yeast Metaphase Spindle. <i>Biophysical Journal</i> , 2003, 84, 3529-3546. | 0.2 | 93 |
| 26 | Mps1 Phosphorylation of Dam1 Couples Kinetochores to Microtubule Plus Ends at Metaphase. <i>Current Biology</i> , 2006, 16, 1489-1501. | 1.8 | 93 |
| 27 | Directed cell migration towards softer environments. <i>Nature Materials</i> , 2022, 21, 1081-1090. | 13.3 | 86 |
| 28 | Anterograde Microtubule Transport Drives Microtubule Bending in LLC-PK1 Epithelial Cells. <i>Molecular Biology of the Cell</i> , 2009, 20, 2943-2953. | 0.9 | 83 |
| 29 | Biphasic Dependence of Glioma Survival and Cell Migration on CD44 Expression Level. <i>Cell Reports</i> , 2017, 18, 23-31. | 2.9 | 81 |
| 30 | Micro-Patterning of Animal Cells on PDMS Substrates in the Presence of Serum without Use of Adhesion Inhibitors. <i>Biomedical Microdevices</i> , 2004, 6, 219-222. | 1.4 | 79 |
| 31 | The Importance of Lattice Defects in Katanin-Mediated Microtubule Severing in Vitro. <i>Biophysical Journal</i> , 2002, 82, 2916-2927. | 0.2 | 75 |
| 32 | Endothelium-Mediated Hepatocyte Recruitment in the Establishment of Liver-like Tissue In Vitro. <i>Tissue Engineering</i> , 2006, 12, 1627-1638. | 4.9 | 75 |
| 33 | Minus-End-Directed Kinesin-14 Motors Align Antiparallel Microtubules to Control Metaphase Spindle Length. <i>Developmental Cell</i> , 2014, 31, 61-72. | 3.1 | 71 |
| 34 | Master Equation-Based Analysis of a Motor-Clutch Model for Cell Traction Force. <i>Cellular and Molecular Bioengineering</i> , 2013, 6, 449-459. | 1.0 | 65 |
| 35 | Regulation and dynamics of force transmission at individual cell-matrix adhesion bonds. <i>Science Advances</i> , 2020, 6, eaax0317. | 4.7 | 65 |
| 36 | The microtubule-based motor Kar3 and plus end-binding protein Bim1 provide structural support for the anaphase spindle. <i>Journal of Cell Biology</i> , 2008, 180, 91-100. | 2.3 | 64 |

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|----|--|-----|-----------|
| 37 | mTOR inhibition in COVID-19: A commentary and review of efficacy in RNA viruses. <i>Journal of Medical Virology</i> , 2021, 93, 1843-1846. | 2.5 | 63 |
| 38 | Mechanisms of kinetic stabilization by the drugs paclitaxel and vinblastine. <i>Molecular Biology of the Cell</i> , 2017, 28, 1238-1257. | 0.9 | 61 |
| 39 | Microtubule assembly dynamics: new insights at the nanoscale. <i>Current Opinion in Cell Biology</i> , 2008, 20, 64-70. | 2.6 | 57 |
| 40 | Kinesin-8 molecular motors: putting the brakes on chromosome oscillations. <i>Trends in Cell Biology</i> , 2008, 18, 307-310. | 3.6 | 55 |
| 41 | Cell-Length-Dependent Microtubule Accumulation during Polarization. <i>Current Biology</i> , 2010, 20, 979-988. | 1.8 | 55 |
| 42 | Microtubule Tip Tracking and Tip Structures at the Nanometer Scale Using Digital Fluorescence Microscopy. <i>Cellular and Molecular Bioengineering</i> , 2011, 4, 192-204. | 1.0 | 55 |
| 43 | Estimation of the diffusion-limited rate of microtubule assembly. <i>Biophysical Journal</i> , 1997, 73, 88-96. | 0.2 | 54 |
| 44 | Model for Protein Concentration Gradients in the Cytoplasm. <i>Cellular and Molecular Bioengineering</i> , 2008, 1, 84-92. | 1.0 | 53 |
| 45 | Analysis of radiation forces in laser trapping and laser-guided direct writing applications. <i>IEEE Journal of Quantum Electronics</i> , 2002, 38, 131-141. | 1.0 | 48 |
| 46 | Dimensionless parameters for the design of optical traps and laser guidance systems. <i>Applied Optics</i> , 2004, 43, 3999. | 2.1 | 47 |
| 47 | Cell Patterning on Biological Gels via Cell Spraying through a Mask. <i>Tissue Engineering</i> , 2005, 11, 701-708. | 4.9 | 47 |
| 48 | Brownian Dynamics of Subunit Addition-Loss Kinetics and Thermodynamics in Linear Polymer Self-Assembly. <i>Biophysical Journal</i> , 2013, 105, 2528-2540. | 0.2 | 47 |
| 49 | Dynamics of 3D carcinoma cell invasion into aligned collagen. <i>Integrative Biology (United Kingdom)</i> , 2018, 10, 100-112. | 0.6 | 46 |
| 50 | Rapid diffusion-state switching underlies stable cytoplasmic gradients in the <i>Caenorhabditis elegans</i> zygote. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8440-E8449. | 3.3 | 46 |
| 51 | Two-step cell patterning on planar and complex curved surfaces by precision spraying of polymers. <i>Biotechnology and Bioengineering</i> , 2006, 93, 919-927. | 1.7 | 44 |
| 52 | Cell Migration in 1D and 2D Nanofiber Microenvironments. <i>Annals of Biomedical Engineering</i> , 2018, 46, 392-403. | 1.3 | 42 |
| 53 | Measuring Nanometer Scale Gradients in Spindle Microtubule Dynamics Using Model Convolution Microscopy. <i>Molecular Biology of the Cell</i> , 2006, 17, 4069-4079. | 0.9 | 40 |
| 54 | Analysis of Microtubule Curvature. <i>Methods in Cell Biology</i> , 2007, 83, 237-268. | 0.5 | 40 |

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|----|---|-----|-----------|
| 55 | Immunoaffinity purification: Basic principles and operational considerations. <i>Biotechnology Advances</i> , 1992, 10, 413-446. | 6.0 | 39 |
| 56 | Diffusion inside microtubules. <i>European Biophysics Journal</i> , 1998, 27, 514-520. | 1.2 | 39 |
| 57 | RCC1-dependent activation of Ran accelerates cell cycle and DNA repair, inhibiting DNA damage-induced cell senescence. <i>Molecular Biology of the Cell</i> , 2016, 27, 1346-1357. | 0.9 | 39 |
| 58 | Myosin IIA suppresses glioblastoma development in a mechanically sensitive manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15550-15559. | 3.3 | 39 |
| 59 | Stochastic dynamics of the nerve growth cone and its microtubules during neurite outgrowth. , 2000, 50, 452-461. | | 38 |
| 60 | Modeling cellular processes in 3D. <i>Trends in Cell Biology</i> , 2011, 21, 692-700. | 3.6 | 38 |
| 61 | Microtubule-Based Control of Motor-Clutch System Mechanics in Glioma Cell Migration. <i>Cell Reports</i> , 2018, 25, 2591-2604.e8. | 2.9 | 37 |
| 62 | Quantitative Analysis of Microtubule Self-assembly Kinetics and Tip Structure. <i>Methods in Enzymology</i> , 2014, 540, 35-52. | 0.4 | 36 |
| 63 | An Indole-Chalcone Inhibits Multidrug-Resistant Cancer Cell Growth by Targeting Microtubules. <i>Molecular Pharmaceutics</i> , 2018, 15, 3892-3900. | 2.3 | 36 |
| 64 | Glioma Cell Migration Dynamics in Brain Tissue Assessed by Multimodal Optical Imaging. <i>Biophysical Journal</i> , 2019, 117, 1179-1188. | 0.2 | 34 |
| 65 | Modeling of chromosome motility during mitosis. <i>Current Opinion in Cell Biology</i> , 2006, 18, 639-647. | 2.6 | 33 |
| 66 | <i>Sleeping Beauty</i> Insertional Mutagenesis Reveals Important Genetic Drivers of Central Nervous System Embryonal Tumors. <i>Cancer Research</i> , 2019, 79, 905-917. | 0.4 | 33 |
| 67 | Model Convolution: A Computational Approach to Digital Image Interpretation. <i>Cellular and Molecular Bioengineering</i> , 2010, 3, 163-170. | 1.0 | 32 |
| 68 | Slit-Robo GTPase-Activating Protein 2 as a metastasis suppressor in osteosarcoma. <i>Scientific Reports</i> , 2016, 6, 39059. | 1.6 | 32 |
| 69 | Autocorrelation Function and Power Spectrum of Two-State Random Processes Used in Neurite Guidance. <i>Biophysical Journal</i> , 1998, 75, 1189-1196. | 0.2 | 29 |
| 70 | Ex vivo SARS-CoV-2 infection of human lung reveals heterogeneous host defense and therapeutic responses. <i>JCI Insight</i> , 2021, 6, . | 2.3 | 26 |
| 71 | Assessment of Transport Mechanisms Underlying the Bicoid Morphogen Gradient. <i>Cellular and Molecular Bioengineering</i> , 2011, 4, 116-121. | 1.0 | 24 |
| 72 | Time series characterization of simulated microtubule dynamics in the nerve growth cone. <i>Annals of Biomedical Engineering</i> , 1995, 23, 268-286. | 1.3 | 23 |

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|----|---|------|-----------|
| 73 | Modeling Cell Migration Mechanics. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1092, 159-187. | 0.8 | 22 |
| 74 | Rapid and inefficient kinetics of sickle hemoglobin fiber growth. <i>Science Advances</i> , 2019, 5, eaau1086. | 4.7 | 21 |
| 75 | Predicting Confined 1D Cell Migration from Parameters Calibrated to a 2D Motor-Clutch Model. <i>Biophysical Journal</i> , 2020, 118, 1709-1720. | 0.2 | 20 |
| 76 | Hypothesis testing via integrated computer modeling and digital fluorescence microscopy. <i>Methods</i> , 2007, 41, 232-237. | 1.9 | 19 |
| 77 | Optical Control of Microtubule Dynamics in Time and Space. <i>Cell</i> , 2015, 162, 243-245. | 13.5 | 19 |
| 78 | Microtubule dynamics: moving toward a multi-scale approach. <i>Current Opinion in Cell Biology</i> , 2018, 50, 8-13. | 2.6 | 19 |
| 79 | Emerging technologies in mechanotransduction research. <i>Current Opinion in Chemical Biology</i> , 2019, 53, 125-130. | 2.8 | 19 |
| 80 | Vaccination Against SARS-CoV-2 Is Associated With a Lower Viral Load and Likelihood of Systemic Symptoms. <i>Open Forum Infectious Diseases</i> , 2022, 9, ofac066. | 0.4 | 17 |
| 81 | Robust Micromechanical Neurite Elicitation in Synapse-Competent Neurons Via Magnetic Bead Force Application. <i>Annals of Biomedical Engineering</i> , 2005, 33, 1229-1237. | 1.3 | 16 |
| 82 | A Brownian dynamics tumor progression simulator with application to glioblastoma. <i>Convergent Science Physical Oncology</i> , 2018, 4, 015001. | 2.6 | 16 |
| 83 | Multiscale Computational Modeling of Tubulin-Tubulin Lateral Interaction. <i>Biophysical Journal</i> , 2019, 117, 1234-1249. | 0.2 | 16 |
| 84 | Stochastic Modeling Yields a Mechanistic Framework for Spindle Attachment Error Correction in Budding Yeast Mitosis. <i>Cell Systems</i> , 2017, 4, 645-650.e5. | 2.9 | 15 |
| 85 | Getting Cells and Tissues into Shape. <i>Cell</i> , 2011, 144, 325-326. | 13.5 | 14 |
| 86 | SEMA4C is a novel target to limit osteosarcoma growth, progression, and metastasis. <i>Oncogene</i> , 2020, 39, 1049-1062. | 2.6 | 13 |
| 87 | Kinetic partitioning during de novo septin filament assembly creates a critical G1 "window of opportunity" for mutant septin function. <i>Cell Cycle</i> , 2016, 15, 2441-2453. | 1.3 | 12 |
| 88 | Tau Avoids the GTP Cap at Growing Microtubule Plus-Ends. <i>iScience</i> , 2020, 23, 101782. | 1.9 | 12 |
| 89 | Laser-guided direct writing of living cells. <i>Biotechnology and Bioengineering</i> , 2000, 67, 312. | 1.7 | 12 |
| 90 | Dystrophin missense mutations alter focal adhesion tension and mechanotransduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, . | 3.3 | 12 |

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|-----|--|------|-----------|
| 91 | Mitosis, Diffusible Crosslinkers, and the Ideal Gas Law. <i>Cell</i> , 2015, 160, 1041-1043. | 13.5 | 11 |
| 92 | Physical limits on kinesin-5 mediated chromosome congression in the smallest mitotic spindles. <i>Molecular Biology of the Cell</i> , 2015, 26, 3999-4014. | 0.9 | 11 |
| 93 | Monte Carlo simulations of microtubule arrays: The critical roles of rescue transitions, the cell boundary, and tubulin concentration in shaping microtubule distributions. <i>PLoS ONE</i> , 2018, 13, e0197538. | 1.1 | 10 |
| 94 | A molecular clock controls periodically driven cell migration in confined spaces. <i>Cell Systems</i> , 2022, 13, 514-529.e10. | 2.9 | 10 |
| 95 | Dam1 complexes go it alone on disassembling microtubules. <i>Nature Cell Biology</i> , 2008, 10, 379-381. | 4.6 | 9 |
| 96 | A Micro-tool for Mechanical Manipulation of in vitro Cell Arrays. <i>Biomedical Microdevices</i> , 2003, 5, 291-295. | 1.4 | 8 |
| 97 | Stochastic simulation and graphic visualization of mitotic processes. <i>Methods</i> , 2010, 51, 251-256. | 1.9 | 8 |
| 98 | Modeling distributed forces within cell adhesions of varying size on continuous substrates. <i>Cytoskeleton</i> , 2019, 76, 571-585. | 1.0 | 7 |
| 99 | Science+dance=bodystorming. <i>Trends in Cell Biology</i> , 2012, 22, 613-616. | 3.6 | 6 |
| 100 | Kinesin-5 Mediated Chromosome Congression in Insect Spindles. <i>Cellular and Molecular Bioengineering</i> , 2018, 11, 25-36. | 1.0 | 6 |
| 101 | Mitotic Spindle: Disturbing a Subtle Balance. <i>Current Biology</i> , 2005, 15, R956-R959. | 1.8 | 5 |
| 102 | The predicted role of steric specificity in crowding-mediated effects on reversible biomolecular association. <i>Physical Biology</i> , 2015, 12, 066004. | 0.8 | 5 |
| 103 | Chromosome Capture: Take Me to Your Kinetochore. <i>Current Biology</i> , 2005, 15, R328-R330. | 1.8 | 4 |
| 104 | Education and Outreach in Physical Sciences in Oncology. <i>Trends in Cancer</i> , 2021, 7, 3-9. | 3.8 | 4 |
| 105 | Clinically validated model predicts the effect of intratumoral heterogeneity on overall survival for non-small cell lung cancer (NSCLC) patients. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 212, 106455. | 2.6 | 4 |
| 106 | Atomistic Basis of Microtubule Dynamic Instability Assessed Via Multiscale Modeling. <i>Annals of Biomedical Engineering</i> , 2021, 49, 1716-1734. | 1.3 | 3 |
| 107 | <title>Nano- and microscale manipulation of biological particles by laser-guided direct writing</title>. , 2002, 4608, 245. | | 2 |
| 108 | Predicting Glioblastoma Cellular Motility from In Vivo MRI with a Radiomics Based Regression Model. <i>Cancers</i> , 2022, 14, 578. | 1.7 | 2 |

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|-----|---|-----|-----------|
| 109 | A microtool for in vitro cell array manipulation. , 0, , . | | 1 |
| 110 | Cellular and Molecular Bioengineering: Editorial Perspective. Cellular and Molecular Bioengineering, 2008, 1, 4-4. | 1.0 | 1 |
| 111 | Multi-Scale Computational Modeling of Tubulin-Tubulin Interactions in Microtubule Self-Assembly from Atoms to Cells. Biophysical Journal, 2019, 116, 256a. | 0.2 | 1 |
| 112 | Laser-guided direct writing of living cells. , 2000, 67, 312. | | 1 |
| 113 | Abstract A03: A brain cancer cell migration simulator based on a motor-clutch model. , 2015, , . | | 1 |
| 114 | Asymmetric Division: Motor Persistence Pays off. Current Biology, 2006, 16, R1021-R1023. | 1.8 | 0 |
| 115 | Microtubule Bending and Breaking in Cellular Mechanotransduction. , 0, , 234-249. | | 0 |
| 116 | Outstanding Papers from the 2009 Biomedical Engineering Society (BMES) Annual Meeting. Cellular and Molecular Bioengineering, 2009, 2, 463-463. | 1.0 | 0 |
| 117 | Modeling of Motor Mediated Microtubule Bending. Biophysical Journal, 2009, 96, 572a. | 0.2 | 0 |
| 118 | Highly Variable Microtubule Assembly Dynamics Reflect Near-Kilohertz Kinetics: Evidence Against Traditional Linear Growth Theory. Biophysical Journal, 2010, 98, 363a. | 0.2 | 0 |
| 119 | Kinetics of Microtubule Assembly. Biophysical Journal, 2011, 100, 530a-531a. | 0.2 | 0 |
| 120 | Outstanding Papers in Cellular and Molecular Bioengineering from the 2011 Biomedical Engineering Society Annual Meeting. Cellular and Molecular Bioengineering, 2012, 5, 127-127. | 1.0 | 0 |
| 121 | BMES Editorial. Cellular and Molecular Bioengineering, 2013, 6, 119-119. | 1.0 | 0 |
| 122 | Introduction to the Special Issue Dedicated to the Memory of Alan J. Hunt. Cellular and Molecular Bioengineering, 2013, 6, 355-355. | 1.0 | 0 |
| 123 | A Brief Scientific Biography of Prof. Alan J. Hunt. Cellular and Molecular Bioengineering, 2013, 6, 356-360. | 1.0 | 0 |
| 124 | Optimality of Force Transmission in a Motor-Clutch Cellular Adhesion Model. Biophysical Journal, 2014, 106, 243a. | 0.2 | 0 |
| 125 | Regulation of Actin Filament Turnover in Brain Tumor Cell Motility. Biophysical Journal, 2014, 106, 359a. | 0.2 | 0 |
| 126 | Molecular Regulation of Actin Turnover at the Leading Edge of Migrating Cells. Biophysical Journal, 2015, 108, 179a-180a. | 0.2 | 0 |

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|-----|--|-----|-----------|
| 127 | Finite Element Modeling of Cell Traction. <i>Biophysical Journal</i> , 2015, 108, 306a. | 0.2 | 0 |
| 128 | Computational Modeling of Tubulin-Tubulin Lateral Interaction: Molecular Dynamics and Brownian Dynamics. <i>Biophysical Journal</i> , 2018, 114, 503a. | 0.2 | 0 |
| 129 | Motor Clutch Modeling of Single-Molecule FRET-Based Molecular Tension Sensors. <i>Biophysical Journal</i> , 2019, 116, 415a. | 0.2 | 0 |
| 130 | A Physical Perspective on Oncology Research: The Critically Emerging Role of Physical Science in the Fight Against Brain Cancer. <i>Advances in Oncology</i> , 2021, 1, 213-221. | 0.1 | 0 |