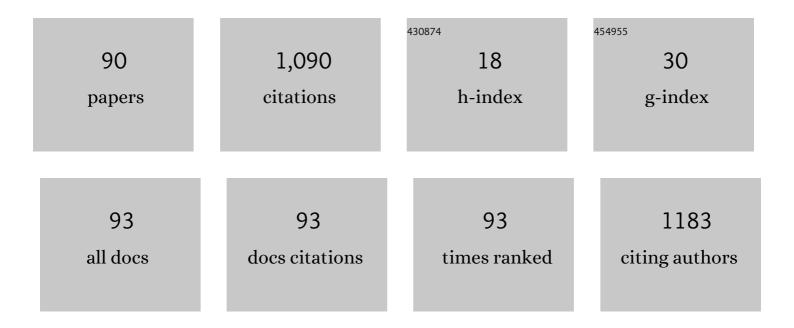
## Yasuhiro Inoue

List of Publications by Year in descending order

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YASHHIRO INOUE

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | TAG-1–assisted progenitor elongation streamlines nuclear migration to optimize subapical crowding.<br>Nature Neuroscience, 2013, 16, 1556-1566.   | 14.8 | 93        |
| 2  | Vertex dynamics simulations of viscosity-dependent deformation during tissue morphogenesis.<br>Biomechanics and Modeling in Mechanobiology, 2015, 14, 413-425.  | 2.8  | 76        |
| 3  | Strain-triggered mechanical feedback in self-organizing optic-cup morphogenesis. Science Advances, 2018, 4, eaau1354.   | 10.3 | 69        |
| 4  | Development of a Simulation Model for Solid Objects Suspended in a Fluctuating Fluid. Journal of Statistical Physics, 2002, 107, 85-100.  | 1.2  | 63        |
| 5  | Reversible network reconnection model for simulating large deformation in dynamic tissue morphogenesis. Biomechanics and Modeling in Mechanobiology, 2013, 12, 627-644.                                 | 2.8  | 53        |
| 6  | Mechanical roles of apical constriction, cell elongation, and cell migration during neural tube formation in Xenopus. Biomechanics and Modeling in Mechanobiology, 2016, 15, 1733-1746.                 | 2.8  | 50        |
| 7  | Three-dimensional vertex model for simulating multicellular morphogenesis. Biophysics and Physicobiology, 2015, 12, 13-20.  | 1.0  | 48        |
| 8  | Effect of tensile force on the mechanical behavior of actin filaments. Journal of Biomechanics, 2011, 44, 1776-1781.  | 2.1  | 46        |
| 9  | Combining Turing and 3D vertex models reproduces autonomous multicellular morphogenesis with undulation, tubulation, and branching. Scientific Reports, 2018, 8, 2386.                                  | 3.3  | 44        |
| 10 | Modeling cell proliferation for simulating three-dimensional tissue morphogenesis based on a reversible network reconnection framework. Biomechanics and Modeling in Mechanobiology, 2013, 12, 987-996. | 2.8  | 42        |
| 11 | PCP-dependent transcellular regulation of actomyosin oscillation facilitates convergent extension of vertebrate tissue. Developmental Biology, 2019, 446, 159-167.                                      | 2.0  | 40        |
| 12 | Mode I type delamination fracture toughness of YBCO coated conductor with additional Cu layer.<br>Physica C: Superconductivity and Its Applications, 2011, 471, 1071-1074.                              | 1.2  | 38        |
| 13 | Complex furrows in a 2D epithelial sheet code the 3D structure of a beetle horn. Scientific Reports, 2017, 7, 13939.  | 3.3  | 33        |
| 14 | Evaluation of extensional and torsional stiffness of single actin filaments by molecular dynamics analysis. Journal of Biomechanics, 2010, 43, 3162-3167.   | 2.1  | 30        |
| 15 | Apical contractility in growing epithelium supports robust maintenance of smooth curvatures<br>against cell-division-induced mechanical disturbance. Journal of Biomechanics, 2013, 46, 1705-1713.      | 2.1  | 30        |
| 16 | Site-specific gene transfer with high efficiency onto a carbon nanotube-loaded electrode. Journal of the Royal Society Interface, 2008, 5, 909-918.   | 3.4  | 26        |
| 17 | Elasticity-based boosting of neuroepithelial nucleokinesis via indirect energy transfer from mother to daughter. PLoS Biology, 2018, 16, e2004426.  | 5.6  | 21        |
| 18 | Precise Temporal Regulation of Molecular Diffusion within Dendritic Spines by Actin Polymers during<br>Structural Plasticity. Cell Reports, 2019, 27, 1503-1515.e8.                                     | 6.4  | 20        |

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Modeling cell apoptosis for simulating three-dimensional multicellular morphogenesis based on a<br>reversible network reconnection framework. Biomechanics and Modeling in Mechanobiology, 2016, 15,<br>805-816. | 2.8 | 19        |
| 20 | A mesoscopic simulation model for immiscible multiphase fluids. Journal of Computational Physics, 2004, 201, 191-203.  | 3.8 | 18        |
| 21 | Coupling intercellular molecular signalling with multicellular deformation for simulating three-dimensional tissue morphogenesis. Interface Focus, 2015, 5, 20140095.  | 3.0 | 17        |
| 22 | Advances in Experiments and Modeling in Micro- and Nano-Biomechanics: A Mini Review. Cellular and<br>Molecular Bioengineering, 2011, 4, 327-339.   | 2.1 | 16        |
| 23 | Modeling myosin-dependent rearrangement and force generation in an actomyosin network. Journal of Theoretical Biology, 2011, 281, 65-73.   | 1.7 | 16        |
| 24 | A genetically defined signature of responsiveness to erlotinib in early-stage pancreatic cancer patients: Results from the CONKO-005 trial. EBioMedicine, 2021, 66, 103327.                                      | 6.1 | 16        |
| 25 | Mechanical role of the spatial patterns of contractile cells in invagination of growing epithelial tissue. Development Growth and Differentiation, 2017, 59, 444-454.  | 1.5 | 14        |
| 26 | Anisotropy of cell division and epithelial sheet bending via apical constriction shape the complex folding pattern of beetle horn primordia. Mechanisms of Development, 2018, 152, 32-37.                        | 1.7 | 14        |
| 27 | Quantitative analysis of extension–torsion coupling of actin filaments. Biochemical and Biophysical<br>Research Communications, 2012, 420, 710-713.  | 2.1 | 12        |
| 28 | Effect of fatigue loading on critical current in stainless steel–laminated DI-BSCCO superconducting composite tape. Physica C: Superconductivity and Its Applications, 2010, 470, 1373-1376.                     | 1.2 | 11        |
| 29 | Epithelial tissue folding pattern in confined geometry. Biomechanics and Modeling in Mechanobiology, 2020, 19, 815-822.  | 2.8 | 10        |
| 30 | Simulations of dynamics of actin filaments by remodeling them in shearflows. Computers in Biology and Medicine, 2010, 40, 876-882.   | 7.0 | 9         |
| 31 | Computational analyses decipher the primordial folding coding the 3D structure of the beetle horn.<br>Scientific Reports, 2021, 11, 1017.  | 3.3 | 9         |
| 32 | A mesoscopic simulation study of distributions of droplets in a bifurcating channel. Computers and Fluids, 2006, 35, 971-977.  | 2.5 | 8         |
| 33 | Coarse-grained Brownian ratchet model of membrane protrusion on cellular scale. Biomechanics and<br>Modeling in Mechanobiology, 2011, 10, 495-503.   | 2.8 | 8         |
| 34 | Mode I type interlaminar fracture toughness of Cu plated Gd-YBCO coated conductor. Physics<br>Procedia, 2012, 27, 252-255.   | 1.2 | 7         |
| 35 | Coarse-grained modeling and simulation of actin filament behavior based on Brownian dynamics method. MCB Molecular and Cellular Biomechanics, 2009, 6, 161-73.   | 0.7 | 7         |
| 36 | Wall boundary model for primitive chain network simulations. Journal of Chemical Physics, 2009, 130, 214907.   | 3.0 | 6         |

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| #  | Article   | IF               | CITATIONS      |
|----|---|------------------|----------------|
| 37 | Change in fatigue property and its relation to critical current for YBCO coated conductor with additional Cu layer. Physica C: Superconductivity and Its Applications, 2009, 469, 1476-1479.                                  | 1.2              | 6              |
| 38 | An energy landscape approach to understanding variety and robustness in tissue morphogenesis.<br>Biomechanics and Modeling in Mechanobiology, 2020, 19, 471-479.  | 2.8              | 6              |
| 39 | Mobility of Molecular Motors Regulates Contractile Behaviors of Actin Networks. Biophysical<br>Journal, 2019, 116, 2161-2171.   | 0.5              | 5              |
| 40 | Soft-core Interaction Between Entanglement Segments for Primitive Chain Network Simulations.<br>Nihon Reoroji Gakkaishi, 2012, 40, 21-30.   | 1.0              | 5              |
| 41 | Mechanics-based Simulations for Understanding Multicellular Tissue Morphogenesis. Seibutsu<br>Butsuri, 2014, 54, 031-034.   | 0.1              | 5              |
| 42 | Development of a simulation model for solid objects suspended in a fluctuating fluid. Computer Physics Communications, 2001, 142, 114-116.  | 7.5              | 4              |
| 43 | On the density correlation of the spontaneous fluctuation in a real-coded lattice gas. Computer Physics Communications, 2003, 153, 66-70.   | 7.5              | 3              |
| 44 | Statistical analysis on Amida-kuji. Physica A: Statistical Mechanics and Its Applications, 2006, 369, 867-876.  | 2.6              | 3              |
| 45 | A simulation model for amphiphilic molecules in a mesoscale solvent. Computers and Mathematics<br>With Applications, 2008, 55, 1469-1480.   | 2.7              | 3              |
| 46 | Mechanosensitive kinetic preference of actin-binding protein to actin filament. Physical Review E, 2016, 93, 042403.  | 2.1              | 3              |
| 47 | Brownian dynamics simulation study on force–velocity relation in actin-based membrane protrusion.<br>Computational Particle Mechanics, 2015, 2, 329-337.  | 3.0              | 2              |
| 48 | Approach Behavior of Binding Proteins Toward Actin Filament : Brownian Dynamics Simulation. Nihon<br>Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2010,<br>76, 1119-1127. | 0.2              | 1              |
| 49 | Role of the Actin–Myosin Catch Bond on Actomyosin Aggregate Formation. Cellular and Molecular<br>Bioengineering, 2013, 6, 3-12.   | 2.1              | 1              |
| 50 | Reductions in Anisotropic Errors from Implementation of Phase-Field Wetting Boundary Condition for Off-Grid Objects. International Journal of Computational Methods, 2015, 12, 1550042.                                       | 1.3              | 1              |
| 51 | Three-Dimensional Vertex Simulation on Smooth Surface Maintenance of Growing Epithelial Tissue<br>Based on Intercellular Mechano-Feedback. Biophysical Journal, 2016, 110, 308a.  | 0.5              | 1              |
| 52 | S15A3 Multiscale Modeling and Simulation of Actin Filament Dynamics(Mutli-scale simulations for) Tj ETQq0 0 C   | rgBT /Ove        | erlock 10 Tf 5 |
| 53 | 2P-045 Stiffness Evaluation of Actin Filament by Molecular Dynamics Analysis(The 46th Annual Meeting) Tj ETQo   | 1 1 0.784<br>0.1 | ·314 rgBT /Ov  |

 $_{54}$  1P-177 Thermodynamics study on torsion induced inhibition of cofilin binding to actin filament(The) Tj ETQq0 0 0 rgBT /Overlock 10 Tf S

| #  | Article   | IF                       | CITATIONS            |
|----|---|--------------------------|----------------------|
| 55 | A Thermodynamic Model Describing the Mechanosensitivity of Actin-cofilin Binding. Biophysical<br>Journal, 2009, 96, 123a-124a.  | 0.5                      | Ο                    |
| 56 | 2P-009 Effects of tensile force on mechanical properties of actin filament(Protein:Structure,The 47th) Tj ETQqC   | ) 0 0 <sub>0</sub> gBT / | Overlock 10 T        |
| 57 | 1P221 Modeling and simulation of dynamic reconstructing network of stress fibers with mechanical sensing through focal adhesions(Cell biology,The 48th Annual Meeting of the Biophysical Society of) Tj ETQq1                       | 10.7081431               | 4 rgBT /Overlo       |
| 58 | 3P035 Tensile Force Suppresses Torsional Motions of Individual Actin Subunits(Protein: Structure) Tj ETQq0 0 (<br>S151.   | O rgBT /Ove<br>0.1       | erlock 10 Tf 5C<br>O |
| 59 | Thermodynamic Model Study on the Modulation of Binding Affinity between Actin Filament and its<br>Regulatory Proteins in Response to Mechanical Stresses. Biophysical Journal, 2010, 98, 154a.                                      | 0.5                      | ο                    |
| 60 | 3D1558 Extension-torsion coupling behavior of single actin filament(3D Protein: Structure &) Tj ETQq0 0 (   | ) rgBT /Ove              | erlock 10 Tf 50      |
| 61 | Molecular Dynamics Analysis of Coupling Behaviors Between Extension and Torsion of Actin<br>Filaments. Biophysical Journal, 2012, 102, 372a-373a.   | 0.5                      | Ο                    |
| 62 | Modeling and Simulation of Myosin-Dependent Rearrangement and Force Generation in an Actomyosin<br>Network. Biophysical Journal, 2012, 102, 375a.   | 0.5                      | 0                    |
| 63 | Preface: mathematics, physics, and engineering in biology. Development Growth and Differentiation, 2017, 59, 305-305.   | 1.5                      | О                    |
| 64 | Regulation of Chemical Reaction Process due to Mechanical Stimuli. Seibutsu Butsuri, 2017, 57, 026-029.   | 0.1                      | 0                    |
| 65 | Simulation of Brownian Dynamics on a Curved Surface. Biophysical Journal, 2018, 114, 345a.  | 0.5                      | О                    |
| 66 | 223 Proposal of a wall boundary condition for Primitive Chain Network simulations. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 430-431.   | 0.0                      | 0                    |
| 67 | 744 Computational statistical mechanics of cooperative actin-cofilin binding induced by torsion of actin filament. The Proceedings of the Computational Mechanics Conference, 2008, 2008.21, 854-855.                               | 0.0                      | Ο                    |
| 68 | 2014 Modeling of actin filament branching for analysis of actin network dynamics. The Proceedings of the Computational Mechanics Conference, 2009, 2009.22, 769-770.  | 0.0                      | 0                    |
| 69 | 1037 Primitive chain network simulations : confinement effect of slit width between solid walls on<br>entanglement of chains in polymer melt. The Proceedings of the Computational Mechanics<br>Conference, 2009, 2009.22, 306-307. | 0.0                      | Ο                    |
| 70 | J0206-1-2 Simulation of dynamic rearrangements of actomyosin network. The Proceedings of the JSME<br>Annual Meeting, 2010, 2010.6, 77-78.   | 0.0                      | 0                    |
| 71 | 105 Analysis of Resin Flows around Filaments using Diffuse Interface Method combined with Immersed<br>Boundary Method. The Proceedings of the Computational Mechanics Conference, 2010, 2010.23, 35-36.                             | 0.0                      | Ο                    |
| 72 | 1114 Thermodynamic relation of binding affinity of actin-regulatory protein with mechanical stress of actin filament. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2010, 2009.22, 200.              | 0.0                      | 0                    |

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|----|---|-----|-----------|
| 73 | A201 Equilibration of cofilin-decorated actin filament using molecular dynamics simulation. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2012, 2012.23, 95-96.  | 0.0 | 0         |
| 74 | BC-JP-6 Molecular dynamics simulations of an actin filament. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _BC-JP-6-1BC-JP-6-1.   | 0.0 | 0         |
| 75 | OS1-1-3 Multiscale computational mechanobiology on tissue morphogenesis. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2012, 2012.4, 123-124.  | 0.0 | 0         |
| 76 | 1E07 Study on mechanical behaviors of amino residues in actin filament as a mechano-sensor using<br>molecular dynamics simulation. The Proceedings of the Bioengineering Conference Annual Meeting of<br>BED/JSME, 2013, 2013.25, 155-156.          | 0.0 | 0         |
| 77 | J021013 BMU movement analyzed by trabecular and osteonal remodeling simulation. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _J021013-1J021013-3.  | 0.0 | 0         |
| 78 | J021011 Energy landscape between adjacent subunits in cofilin-decorated actin filament. The<br>Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _J021011-1J021011-3.   | 0.0 | 0         |
| 79 | 1E11 Energy between cofilin and actin in cofilin-decorated actin filament under tensile force. The<br>Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 123-124.  | 0.0 | 0         |
| 80 | 1E12 Influence of mechanical stimulus on mouse ES cell differentiation : Investigation based on mRNA expression levels. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 125-126.                        | 0.0 | 0         |
| 81 | S0210101 Contribution of Cell Proliferation and Apical Contraction on Epithelial Tissue Deformation Examined by Using a Multi-cellular Dynamics Simulation. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _S0210101S0210101 | 0.0 | 0         |
| 82 | J0240102 Investigation of conditions of SMD simulation for alpha-helical proteins. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _J0240102J0240102  | 0.0 | 0         |
| 83 | 21am2-E3 Role of spatial patterns of apical constricted cells in epithelial tissue deformations. The<br>Proceedings of the Symposium on Micro-Nano Science and Technology, 2014, 2014.6,<br>_21am2-E321am2-E3                                       | 0.0 | 0         |
| 84 | 1C41 Influence of spatially patterned mechanical cell activities on the tissue invagination. The<br>Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 125-126.  | 0.0 | 0         |
| 85 | M314 Mathematical modeling of cell-cell interaction maintaining smooth surface of growing epithelial tissue. The Proceedings of Conference of Kansai Branch, 2015, 2015.90, 308.  | 0.0 | 0         |
| 86 | J0210204 Influence of the balance between RANKL and OPG expression rates on the functional adaptation capacity of trabeculae. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J0210204J0210204                               | 0.0 | 0         |
| 87 | J0210105 Mathematical modeling of apical constriction adjustment for maintaining smooth surface of growing epithelial tissue. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015,02101050210105                                   | 0.0 | 0         |
| 88 | 2H14 Effects of remodeling signals on bone functional adaptation. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _2H14-12H14-4   | 0.0 | 0         |
| 89 | 2D21 Simulation of morphological change in epithelial tissue considering feedback between constriction force and shape at cell level. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _2D21-12D21-5     | 0.0 | 0         |
| 90 | Impact of environmental asymmetry on epithelial morphogenesis. Scientific Reports, 2022, 12, .  | 3.3 | 0         |