# Yasuhiro Inoue

List of Publications by Year
in descending order



| 90 | 1,090 | 430874 18 | 454955 30 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 93 | 93 | 93 | 1183 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Impact of environmental asymmetry on epithelial morphogenesis. Scientific Reports, 2022, 12, . | 3.3 | 0 |
| 2 | Computational analyses decipher the primordial folding coding the 3D structure of the beetle horn. Scientific Reports, 2021, 11, 1017. | 3.3 | 9 |
| 3 | 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 |
| 4 | An energy landscape approach to understanding variety and robustness in tissue morphogenesis. Biomechanics and Modeling in Mechanobiology, 2020, 19, 471-479. | 2.8 | 6 |
| 5 | Epithelial tissue folding pattern in confined geometry. Biomechanics and Modeling in Mechanobiology, 2020, 19, 815-822. | 2.8 | 10 |
| 6 | Mobility of Molecular Motors Regulates Contractile Behaviors of Actin Networks. Biophysical Journal, 2019, 116, 2161-2171. | 0.5 | 5 |
| 7 | Precise Temporal Regulation of Molecular Diffusion within Dendritic Spines by Actin Polymers during Structural Plasticity. Cell Reports, 2019, 27, 1503-1515.e8. | 6.4 | 20 |
| 8 | PCP-dependent transcellular regulation of actomyosin oscillation facilitates convergent extension of vertebrate tissue. Developmental Biology, 2019, 446, 159-167. | 2.0 | 40 |
| 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 | Strain-triggered mechanical feedback in self-organizing optic-cup morphogenesis. Science Advances, 2018, 4, eaau1354. | 10.3 | 69 |
| 11 | 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 |
| 12 | Simulation of Brownian Dynamics on a Curved Surface. Biophysical Journal, 2018, 114, 345a. | 0.5 | 0 |
| 13 | Elasticity-based boosting of neuroepithelial nucleokinesis via indirect energy transfer from mother to daughter. PLoS Biology, 2018, 16, e2004426. | 5.6 | 21 |
| 14 | Preface: mathematics, physics, and engineering in biology. Development Growth and Differentiation, 2017, 59, 305-305. | 1.5 | 0 |
| 15 | 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 |
| 16 | Complex furrows in a 2D epithelial sheet code the 3D structure of a beetle horn. Scientific Reports, 2017, 7, 13939. | 3.3 | 33 |
| 17 | Regulation of Chemical Reaction Process due to Mechanical Stimuli. Seibutsu Butsuri, 2017, 57, 026-029. | 0.1 | 0 |
| 18 | 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 |

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|---|---|---|---|
| 19 | Mechanosensitive kinetic preference of actin-binding protein to actin filament. Physical Review E, 2016, 93, 042403. | 2.1 | 3 |
| 20 | Three-Dimensional Vertex Simulation on Smooth Surface Maintenance of Growing Epithelial Tissue Based on Intercellular Mechano-Feedback. Biophysical Journal, 2016, 110, 308a. | 0.5 | 1 |
| 21 | Modeling cell apoptosis for simulating three-dimensional multicellular morphogenesis based on a reversible network reconnection framework. Biomechanics and Modeling in Mechanobiology, 2016, 15, 805-816. | 2.8 | 19 |
| 22 | 2H14 Effects of remodeling signals on bone functional adaptation. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _2H14-1_-_2H14-4_. | 0.0 | 0 |
| 23 | 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, _2D21-1_-_2D21-5_. | 0.0 | 0 |
| 24 | Brownian dynamics simulation study on forceâ€“velocity relation in actin-based membrane protrusion. Computational Particle Mechanics, 2015, 2, 329-337. | 3.0 | 2 |
| 25 | 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 |
| 26 | Three-dimensional vertex model for simulating multicellular morphogenesis. Biophysics and Physicobiology, 2015, 12, 13-20. | 1.0 | 48 |
| 27 | Vertex dynamics simulations of viscosity-dependent deformation during tissue morphogenesis. Biomechanics and Modeling in Mechanobiology, 2015, 14, 413-425. | 2.8 | 76 |
| 28 | Coupling intercellular molecular signalling with multicellular deformation for simulating three-dimensional tissue morphogenesis. Interface Focus, 2015, 5, 20140095. | 3.0 | 17 |
| 29 | 1C41 Influence of spatially patterned mechanical cell activities on the tissue invagination. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 125-126. | 0.0 | 0 |
| 30 | 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 |
| 31 | 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, _J0210204--_J0210204-. | 0.0 | 0 |
| 32 | J0210105 Mathematical modeling of apical constriction adjustment for maintaining smooth surface of growing epithelial tissue. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J0210105--_J0210105-. | 0.0 | 0 |
| 33 | Mechanics-based Simulations for Understanding Multicellular Tissue Morphogenesis. Seibutsu Butsuri, 2014, 54, 031-034. | 0.1 | 5 |
| 34 | 1E11 Energy between cofilin and actin in cofilin-decorated actin filament under tensile force. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 123-124. | 0.0 | 0 |
| 35 | 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 |
| 36 | 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, _S0210101--_S0210101-. | 0.0 | 0 |

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|---|---|---|---|
| 37 | J0240102 Investigation of conditions of SMD simulation for alpha-helical proteins. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _J0240102-_J0240102-. | 0.0 | 0 |
| 38 | 21am2-E3 Role of spatial patterns of apical constricted cells in epithelial tissue deformations. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2014, 2014.6, _21am2-E3-_21am2-E3-. | 0.0 | 0 |
| 39 | Role of the Actinâ€“Myosin Catch Bond on Actomyosin Aggregate Formation. Cellular and Molecular Bioengineering, 2013, 6, 3-12. | 2.1 | 1 |
| 40 | Reversible network reconnection model for simulating large deformation in dynamic tissue morphogenesis. Biomechanics and Modeling in Mechanobiology, 2013, 12, 627-644. | 2.8 | 53 |
| 41 | Apical contractility in growing epithelium supports robust maintenance of smooth curvatures against cell-division-induced mechanical disturbance. Journal of Biomechanics, 2013, 46, 1705-1713. | 2.1 | 30 |
| 42 | 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 |
| 43 | TAG-1â€“assisted progenitor elongation streamlines nuclear migration to optimize subapical crowding. Nature Neuroscience, 2013, 16, 1556-1566. | 14.8 | 93 |
| 44 | 1E07 Study on mechanical behaviors of amino residues in actin filament as a mechano-sensor using molecular dynamics simulation. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013, 2013.25, 155-156. | 0.0 | 0 |
| 45 | J021013 BMU movement analyzed by trabecular and osteonal remodeling simulation. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _J021013-1-_J021013-3. | 0.0 | 0 |
| 46 | J021011 Energy landscape between adjacent subunits in cofilin-decorated actin filament. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _J021011-1-_J021011-3. | 0.0 | 0 |
| 47 | Molecular Dynamics Analysis of Coupling Behaviors Between Extension and Torsion of Actin Filaments. Biophysical Journal, 2012, 102, 372a-373a. | 0.5 | 0 |
| 48 | Quantitative analysis of extensionâ€“torsion coupling of actin filaments. Biochemical and Biophysical Research Communications, 2012, 420, 710-713. | 2.1 | 12 |
| 49 | Modeling and Simulation of Myosin-Dependent Rearrangement and Force Generation in an Actomyosin Network. Biophysical Journal, 2012, 102, 375a. | 0.5 | 0 |
| 50 | Mode I type interlaminar fracture toughness of Cu plated Gd-YBCO coated conductor. Physics Procedia, 2012, 27, 252-255. | 1.2 | 7 |
| 51 | Soft-core Interaction Between Entanglement Segments for Primitive Chain Network Simulations. Nihon Reoroji Gakkaishi, 2012, 40, 21-30. | 1.0 | 5 |
| 52 | 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 |
| 53 | BC-JP-6 Molecular dynamics simulations of an actin filament. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _BC-JP-6-1-_BC-JP-6-1. | 0.0 | 0 |
| 54 | 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 |

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| 55 | 3D1558 Extension-torsion coupling behavior of single actin filament(3D Protein: Structure &) Tj ETQq1 1 0.784314 rgBT /Overlo | 0.1 | 0 |
| 56 | Mode I type delamination fracture toughness of YBCO coated conductor with additional Cu layer. Physica C: Superconductivity and Its Applications, 2011, 471, 1071-1074. | 1.2 | 38 |
| 57 | Coarse-grained Brownian ratchet model of membrane protrusion on cellular scale. Biomechanics and Modeling in Mechanobiology, 2011, 10, 495-503. | 2.8 | 8 |
| 58 | Advances in Experiments and Modeling in Micro- and Nano-Biomechanics: A Mini Review. Cellular and Molecular Bioengineering, 2011, 4, 327-339. | 2.1 | 16 |
| 59 | Modeling myosin-dependent rearrangement and force generation in an actomyosin network. Journal of Theoretical Biology, 2011, 281, 65-73. | 1.7 | 16 |
| 60 | Effect of tensile force on the mechanical behavior of actin filaments. Journal of Biomechanics, 2011, 44, 1776-1781. | 2.1 | 46 |
| 61 | Approach Behavior of Binding Proteins Toward Actin Filament : Brownian Dynamics Simulation. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2010, 76, 1119-1127. | 0.2 | 1 |
| 62 | 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 ETQq0 0 0 rgBT /Overlock 10 Tf | 0 | 0 |
| 63 | 3P035 Tensile Force Suppresses Torsional Motions of Individual Actin Subunits(Protein: Structure) Tj ETQq1 1 0.784314 rgBT /Overlo S151. | 0.1 | 0 |
| 64 | Effect of fatigue loading on critical current in stainless steelâ€“laminated DI-BSCCO superconducting composite tape. Physica C: Superconductivity and Its Applications, 2010, 470, 1373-1376. | 1.2 | 11 |
| 65 | Evaluation of extensional and torsional stiffness of single actin filaments by molecular dynamics analysis. Journal of Biomechanics, 2010, 43, 3162-3167. | 2.1 | 30 |
| 66 | Simulations of dynamics of actin filaments by remodeling them in shearflows. Computers in Biology and Medicine, 2010, 40, 876-882. | 7.0 | 9 |
| 67 | Thermodynamic Model Study on the Modulation of Binding Affinity between Actin Filament and its Regulatory Proteins in Response to Mechanical Stresses. Biophysical Journal, 2010, 98, 154a. | 0.5 | 0 |
| 68 | J0206-1-2 Simulation of dynamic rearrangements of actomyosin network. The Proceedings of the JSME Annual Meeting, 2010, 2010.6, 77-78. | 0.0 | 0 |
| 69 | 105 Analysis of Resin Flows around Filaments using Diffuse Interface Method combined with Immersed Boundary Method. The Proceedings of the Computational Mechanics Conference, 2010, 2010.23, 35-36. | 0.0 | 0 |
| 70 | 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 |
| 71 | Wall boundary model for primitive chain network simulations. Journal of Chemical Physics, 2009, 130, 214907. | 3.0 | 6 |
| 72 | 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 |

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|---|---|---|---|
| 73 | A Thermodynamic Model Describing the Mechanosensitivity of Actin-cofilin Binding. Biophysical Journal, 2009, 96, 123a-124a. | 0.5 | 0 |
| 74 | 2P-009 Effects of tensile force on mechanical properties of actin filament(Protein:Structure,The 47th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 0.1 | 0 |
| 75 | 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 |
| 76 | 1037 Primitive chain network simulations : confinement effect of slit width between solid walls on entanglement of chains in polymer melt. The Proceedings of the Computational Mechanics Conference, 2009, 2009.22, 306-307. | 0.0 | 0 |
| 77 | 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 |
| 78 | A simulation model for amphiphilic molecules in a mesoscale solvent. Computers and Mathematics With Applications, 2008, 55, 1469-1480. | 2.7 | 3 |
| 79 | 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 |
| 80 | 2P-045 Stiffness Evaluation of Actin Filament by Molecular Dynamics Analysis(The 46th Annual Meeting) Tj ETQq0 0 0 rgBT /Overlock 10 | 0.1 | 0 |
| 81 | 1P-177 Thermodynamics study on torsion induced inhibition of cofilin binding to actin filament(The) Tj ETQq1 1 0.784314 rgBT /Over | 0.1 | 0 |
| 82 | 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 |
| 83 | 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 | 0 |
| 84 | S15A3 Multiscale Modeling and Simulation of Actin Filament Dynamics(Mutli-scale simulations for) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 0.1 | 0 |
| 85 | Statistical analysis on Amida-kuji. Physica A: Statistical Mechanics and Its Applications, 2006, 369, 867-876. | 2.6 | 3 |
| 86 | A mesoscopic simulation study of distributions of droplets in a bifurcating channel. Computers and Fluids, 2006, 35, 971-977. | 2.5 | 8 |
| 87 | A mesoscopic simulation model for immiscible multiphase fluids. Journal of Computational Physics, 2004, 201, 191-203. | 3.8 | 18 |
| 88 | On the density correlation of the spontaneous fluctuation in a real-coded lattice gas. Computer Physics Communications, 2003, 153, 66-70. | 7.5 | 3 |
| 89 | Development of a Simulation Model for Solid Objects Suspended in a Fluctuating Fluid. Journal of Statistical Physics, 2002, 107, 85-100. | 1.2 | 63 |
| 90 | Development of a simulation model for solid objects suspended in a fluctuating fluid. Computer Physics Communications, 2001, 142, 114-116. | 7.5 | 4 |