

# Asuka Hatano

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

344  
citations

840776

11  
h-index

839539

18  
g-index

52  
all docs

52  
docs citations

52  
times ranked

392  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Isolation and reconstruction of cardiac mitochondria from SBEM images using a deep learning-based method. Journal of Structural Biology, 2022, 214, 107806.                           | 2.8 | 3         |
| 2  | Automated 3D reconstruction of isolated mitochondria from cardiomyocyte SBEM images. Biophysical Journal, 2022, 121, 234a.  | 0.5 | 0         |
| 3  | Development of an Ultrastructural Model of Cardiomyocytes Based on Electron Microscopy. IFMBE Proceedings, 2021, , 52-59.   | 0.3 | 0         |
| 4  | Numerical Analysis of Aortic Valve Stress for Phantom Experiments. IFMBE Proceedings, 2021, , 47-51.  | 0.3 | 0         |
| 5  | Fluid-Structure Interaction Analysis of 3D Human Aortic Valve Model Constructed from CT Images. IFMBE Proceedings, 2021, , 60-66.   | 0.3 | 0         |
| 6  | X-ray Projection and Fluid Analysis of Contrast Agent Dynamics Through Stenosis. IFMBE Proceedings, 2021, , 188-194.  | 0.3 | 0         |
| 7  | Evaluation of Compliance for Bolted Joint Applied for Components of Railway Vehicle. The Proceedings of Conference of Chugoku-Shikoku Branch, 2021, 2021.59, 03b1.                    | 0.0 | 0         |
| 8  | Finite element modeling of elevator wire rope to reproduce the radial-direction stiffness. Transactions of the JSME (in Japanese), 2021, 87, 20-00418-20-00418.                       | 0.2 | 3         |
| 9  | Reaction pathway analysis for the contraction of 4H-SiC partial-dislocations pair in the vicinity of surface. Japanese Journal of Applied Physics, 2021, 60, 085502.                  | 1.5 | 3         |
| 10 | Comparative study of the effect of van der Waals interactions on stacking fault energies in SiC. Journal of Applied Physics, 2021, 130, .   | 2.5 | 3         |
| 11 | Development of Simplified Finite Element Model Using Rigid Body Element 3 for Bolt Joints of Train. The Proceedings of the Computational Mechanics Conference, 2021, 2021.34, 174.    | 0.0 | 0         |
| 12 | Modeling the effect of mechanical stress on bipolar degradation in 4H-SiC power devices. Journal of Applied Physics, 2020, 128, .   | 2.5 | 12        |
| 13 | Temperature-dependent stacking fault energies of 4H-SiC: A first-principles study. Journal of Applied Physics, 2020, 127, .   | 2.5 | 15        |
| 14 | Development of Fast-Human Body Finite Element Model for Injury Assessment in Football. The Proceedings of the Symposium on Sports and Human Dynamics, 2020, 2020, C-3-2.              | 0.0 | 0         |
| 15 | Reaction pathway analysis for the conversion of perfect screw basal plane dislocation to threading edge dislocation in 4H-SiC. Japanese Journal of Applied Physics, 2019, 58, 081005. | 1.5 | 9         |
| 16 | Attention-Guided Decoder in Dilated Residual Network for Accurate Aortic Valve Segmentation in 3D CT Scans. Lecture Notes in Computer Science, 2019, , 121-129.                       | 1.3 | 2         |
| 17 | Radial Direction Compression Test for Simplified Analysis Method of Elevator Wire Rope. The Proceedings of the Elevator Escalator and Amusement Rides Conference, 2019, 2019, 103.    | 0.1 | 0         |
| 18 | Ab-initio calculation for temperature dependent stacking fault energy of 4H-SiC. The Proceedings of the Computational Mechanics Conference, 2019, 2019.32, 050.                       | 0.0 | 0         |

| #  | ARTICLE  | IF              | CITATIONS |
|----|--|-----------------|-----------|
| 19 | Reliability evaluation of attachments considering the structure and maintenance status of railway switch. The Proceedings of the Transportation and Logistics Conference, 2019, 2019.28, 2002.   | 0.0             | 0         |
| 20 | Finite element modelling for the wear prediction of front rod of special layout railroad switch due to the vibration caused by train passage. Transactions of the JSME (in Japanese), 2019, 85, 18-00414-18-00414.                           | 0.2             | 1         |
| 21 | Atomistic mechanism of graphene growth on a SiC substrate: Large-scale molecular dynamics simulations based on a new charge-transfer bond-order type potential. Physical Review B, 2018, 97, .   | 3.2             | 13        |
| 22 | Development of a method to evaluate the stress distribution in 4H-SiC power devices. Japanese Journal of Applied Physics, 2018, 57, 106602.  | 1.5             | 12        |
| 23 | Elucidation of the atomic-scale mechanism of the anisotropic oxidation rate of 4H-SiC between the (0001) Si-face and (0001) C-face by using a new Si-O-C interatomic potential. Journal of Applied Physics, 2018, 123, 185303.               | 2.5             | 14        |
| 24 | Phantom experiment and ALE fluid structure interaction analysis of contrast agent dynamics through an elastic stenosis after bifurcation. Transactions of the JSME (in Japanese), 2018, 84, 18-00015-18-00015.                               | 0.2             | 0         |
| 25 | Molecular dynamics simulation for evaluating the DLC-SiC friction properties. The Proceedings of the Computational Mechanics Conference, 2018, 2018.31, 055.   | 0.0             | 0         |
| 26 | Safety evaluation and injury mechanism identification in launch abort system using finite element method. Transactions of the JSME (in Japanese), 2018, 84, 18-00126-18-00126.   | 0.2             | 0         |
| 27 | Reliability evaluation of bolt joints of railroad switch through finite element method. The Proceedings of the Transportation and Logistics Conference, 2018, 2018.27, 3501.   | 0.0             | 0         |
| 28 | Radial Direction Compression Test and Simplified Analysis Method of Elevator Wire Rope. The Proceedings of the Transportation and Logistics Conference, 2018, 2018.27, 1002.   | 0.0             | 0         |
| 29 | Development of Hybrid Method Using Ab initio and Classical Molecular Dynamics for Calculating the Thermal Expansion Coefficient of Alloys at High Temperature. Zairyo/Journal of the Society of Materials Science, Japan, 2018, 67, 197-201. | 0.2             | 0         |
| 30 | Molecular Dynamics Simulation for Intrinsic Stress Caused by Surface Oxidation on Hydrogenated Amorphous Silicon. Zairyo/Journal of the Society of Materials Science, Japan, 2017, 66, 950-956.  | 0.2             | 0         |
| 31 | Effect of machined surface condition on fatigue strength of Ni based superalloy Alloy718 (2nd report,) Tj ETQq1 1 (in Japanese), 2017, 83, 16-00264-16-00264.  | 0.784314<br>0.2 | 14        |
| 32 | Reaction pathway analysis for shuffle-set 60° perfect dislocation in Si. Philosophical Magazine, 2016, 96, 2902-2918.  | 1.6             | 2         |
| 33 | Crew safety evaluation and injury mechanism at Launch Abort System based on multibody simulation. Transactions of the JSME (in Japanese), 2016, 82, 16-00085-16-00085.   | 0.2             | 1         |
| 34 | Charge-transfer interatomic potential for investigation of the thermal-oxidation growth process of silicon. Journal of Applied Physics, 2016, 120, .   | 2.5             | 12        |
| 35 | Prediction of the friction coefficient of filled rubber sliding on dry and wet surfaces with self-affine large roughness. Mechanical Engineering Journal, 2016, 3, 15-00084-15-00084.  | 0.4             | 12        |
| 36 | Fluid-structure interaction analysis of pulsatile flow in a flexible tube with a construction. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2016, 2016.27, C220.   | 0.0             | 0         |

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|----|--|-----|-----------|
| 37 | Analysis of Oxidized Film Formation and Evaluation of Intrinsic Stress in the a-Si Layer of Semiconductor Microscopic Patterned Structures Using Molecular Dynamics Method. Zairyo/Journal of the Society of Materials Science, Japan, 2016, 65, 127-134.    | 0.2 | 1         |
| 38 | Finite element modelling for the wear prediction of front rod of railroad switch due to the impact vibration caused by train passage. Transactions of the JSME (in Japanese), 2015, 81, 15-00286-15-00286.   | 0.2 | 4         |
| 39 | Effect of machined surface condition on fatigue strength of Ni based superalloy Alloy 718. Transactions of the JSME (in Japanese), 2015, 81, 15-00328-15-00328.  | 0.2 | 7         |
| 40 | An integrated finite element simulation of cardiomyocyte function based on triphasic theory. Frontiers in Physiology, 2015, 6, 287.  | 2.8 | 9         |
| 41 | Distinct Functional Roles of Cardiac Mitochondrial Subpopulations Revealed by a 3D Simulation Model. Biophysical Journal, 2015, 108, 2732-2739.  | 0.5 | 17        |
| 42 | 067 Finite Element Analysis of Head and Cervical Spine Injury Mechanisms for Launch Abort Systems. The Proceedings of the Computational Mechanics Conference, 2015, 2015.28, _067-1_-_067-2_.  | 0.0 | 0         |
| 43 | Transversely Isotropic Constitutive Model for Extraocular Muscle Incorporating the Force“Length”Activation Relationship and Weaving Tendon. Advanced Biomedical Engineering, 2015, 4, 105-111.   | 0.6 | 0         |
| 44 | 074 Surface Condition Modeling using Crystal Plasticity FEM and Cyclic Deformation Simulation. The Proceedings of the Computational Mechanics Conference, 2015, 2015.28, _074-1_-_074-3_.  | 0.0 | 0         |
| 45 | Integrated 3D Simulation of Cardiomyocyte Revealed the Distinct Functional Characteristics between Subsarcolemmal and Interfibrillar Mitochondria. Biophysical Journal, 2014, 106, 643a.   | 0.5 | 0         |
| 46 | Mitochondrial Colocalization with Ca <sup>2+</sup> Release Sites is Crucial to Cardiac Metabolism. Biophysical Journal, 2013, 104, 496-504.  | 0.5 | 19        |
| 47 | A Study on Large Scale Analysis of Cardiomyocyte Coupling Electrical, Chemical and Mechanical Phenomena Based on Triphasic Theory. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2013, 79, 934-949. | 0.2 | 1         |
| 48 | OS1012 Multi-physics Analysis of Intra-cardiomyocyte Phenomena Based on Triphasic Theory. The Proceedings of the Materials and Mechanics Conference, 2013, 2013, _OS1012-1_-_OS1012-3_.  | 0.0 | 0         |
| 49 | Critical role of cardiac t-tubule system for the maintenance of contractile function revealed by a 3D integrated model of cardiomyocytes. Journal of Biomechanics, 2012, 45, 815-823.  | 2.1 | 18        |
| 50 | Multi-scale simulations of cardiac electrophysiology and mechanics using the University of Tokyo heart simulator. Progress in Biophysics and Molecular Biology, 2012, 110, 380-389.  | 2.9 | 83        |
| 51 | A 3D Integrated Model of Cardiomyocytes Revealed the Important Role of Cardiac T-Tubule Structure for the Maintenance of Contractile Function. Biophysical Journal, 2012, 102, 592a.   | 0.5 | 0         |
| 52 | A Three-Dimensional Simulation Model of Cardiomyocyte Integrating Excitation-Contraction Coupling and Metabolism. Biophysical Journal, 2011, 101, 2601-2610.   | 0.5 | 54        |