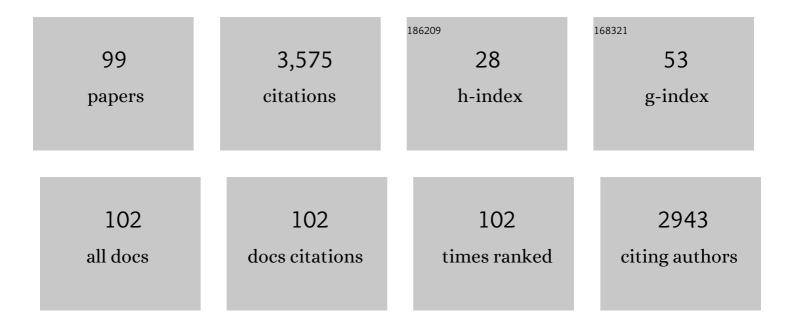
Jamie Paik

List of Publications by Year in descending order

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IAMIE DAIK

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| 1 | Lattice-and-Plate Model: Mechanics Modeling of Physical Origami Robots. Soft Robotics, 2023, 10, 149-158. | 4.6 | 3 |
| 2 | 3PAC: A Plug-and-Play System for Distributed Power Sharing and Communication in Modular Robots. IEEE/ASME Transactions on Mechatronics, 2022, 27, 858-867. | 3.7 | 2 |
| 3 | Haptigami: A Fingertip Haptic Interface With Vibrotactile and 3-DoF Cutaneous Force Feedback. IEEE Transactions on Haptics, 2022, 15, 131-141. | 1.8 | 11 |
| 4 | 3D Printed Motor-Sensory Module Prototype for Facial Rehabilitation. Soft Robotics, 2022, 9, 354-363. | 4.6 | 3 |
| 5 | Kirigami Design and Modeling for Strong, Lightweight Metamaterials. Advanced Functional Materials, 2022, 32, . | 7.8 | 16 |
| 6 | Flexure Variable Stiffness Actuators. Advanced Intelligent Systems, 2022, 4, . | 3.3 | 2 |
| 7 | Soft pneumatic actuator-driven origami-inspired modular robotic "pneumagami― International Journal of Robotics Research, 2021, 40, 72-85. | 5.8 | 34 |
| 8 | Pneumatic Supply System Parameter Optimization for Soft Actuators. Soft Robotics, 2021, 8, 152-163. | 4.6 | 31 |
| 9 | Hybrid Control Strategy for Force and Precise End Effector Positioning of a Twisted String Actuator. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2791-2802. | 3.7 | 13 |
| 10 | Soft Touch using Soft Pneumatic Actuator–Skin as a Wearable Haptic Feedback Device. Advanced Intelligent Systems, 2021, 3, 2000168. | 3.3 | 19 |
| 11 | Robotic Muscular Assistance-As-Needed for Physical and Training/Rehabilitation Tasks: Design and Experimental Validation of a Closed-Loop Myoelectric Control in Grounded and Wearable Applications. Springer Proceedings in Advanced Robotics, 2021, , 16-30. | 0.9 | 0 |
| 12 | Soft Bionic Sensors and Actuators. Advanced Intelligent Systems, 2021, 3, 2100003. | 3.3 | 3 |
| 13 | Generalized modeling of origami folding joints. Extreme Mechanics Letters, 2021, 45, 101213. | 2.0 | 19 |
| 14 | A 4D printed active compliant hinge for potential space applications using shape memory alloys and polymers. Smart Materials and Structures, 2021, 30, 085004. | 1.8 | 20 |
| 15 | CMOSâ€Inspired Complementary Fluidic Circuits for Soft Robots. Advanced Science, 2021, 8, e2100924. | 5.6 | 21 |
| 16 | Flow Path Optimization for Soft Pneumatic Actuators: Towards Optimal Performance and Portability. IEEE Robotics and Automation Letters, 2021, 6, 7949-7956. | 3.3 | 13 |
| 17 | Closed-Loop Position Control of a Self-Sensing 3-DoF Origami Module With Pneumatic Actuators. IEEE Robotics and Automation Letters, 2021, 6, 8213-8220. | 3.3 | 11 |
| 18 | Compact Pneumatic Clutch With Integrated Stiffness Variation and Position Feedback. IEEE Robotics and Automation Letters, 2021, 6, 5697-5704. | 3.3 | 7 |

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| 19 | Variable Stiffness Folding Joints for Haptic Feedback. , 2021, , . | | 4 |
| 20 | Closed-Loop Haptic Feedback Control Using a Self-Sensing Soft Pneumatic Actuator Skin. Soft Robotics, 2020, 7, 22-29. | 4.6 | 98 |
| 21 | Multimodal pipe-climbing robot with origami clutches and soft modular legs. Bioinspiration and Biomimetics, 2020, 15, 026002. | 1.5 | 19 |
| 22 | An Actuation Fault Tolerance Approach to Reconfiguration Planning of Modular Self-folding Robots. , 2020, , . | | 2 |
| 23 | Ori-Pixel, a Multi-DoFs Origami Pixel for Modular Reconfigurable Surfaces. IEEE Robotics and Automation Letters, 2020, 5, 6988-6995. | 3.3 | 7 |
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| 25 | Stretchable Kirigami Components for Composite Meso-Scale Robots. IEEE Robotics and Automation Letters, 2020, 5, 1883-1890. | 3.3 | 19 |
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| 27 | A sEMG-Driven Soft ExoSuit Based on Twisted String Actuators for Elbow Assistive Applications. IEEE Robotics and Automation Letters, 2020, 5, 4094-4101. | 3.3 | 45 |
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| 29 | Multi-DoF Force Characterization of Soft Actuators. IEEE Robotics and Automation Letters, 2019, 4, 3679-3686. | 3.3 | 13 |
| 30 | Designing minimal and scalable insect-inspired multi-locomotion millirobots. Nature, 2019, 571, 381-386. | 13.7 | 154 |
| 31 | Bi-modal control of vacuum-powered soft pneumatic actuators with embedded liquid metal-based strain sensitive skin. , 2019, , . | | 4 |
| 32 | Mechanics of a pressure-controlled adhesive membrane for soft robotic gripping on curved surfaces. Extreme Mechanics Letters, 2019, 30, 100485. | 2.0 | 17 |
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| 34 | RoboScallop: A Bivalve Inspired Swimming Robot. IEEE Robotics and Automation Letters, 2019, 4, 2078-2085. | 3.3 | 21 |
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| 43 | Minimally Actuated Transformation of Origami Machines. IEEE Robotics and Automation Letters, 2018, 3, 1426-1433. | 3.3 | 25 |
| 44 | Design Methodology for Constructing Multimaterial Origami Robots and Machines. IEEE Transactions on Robotics, 2018, 34, 151-165. | 7.3 | 69 |
| 45 | Soft robot design methodology for â€~push-button' manufacturing. Nature Reviews Materials, 2018, 3, 81-83. | 23.3 | 23 |
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| 47 | Towards Peak Torque Minimization for Modular Self-Folding Robots. , 2018, , . | | 2 |
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| 49 | Modeling vacuum bellows soft pneumatic actuators with optimal mechanical performance. , 2018, , . | | 35 |
| 50 | An any-resolution pressure localization scheme using a soft capacitive sensor skin. , 2018, , . | | 11 |
| 51 | An Origami-Inspired Reconfigurable Suction Gripper for Picking Objects With Variable Shape and Size. IEEE Robotics and Automation Letters, 2018, 3, 2894-2901. | 3.3 | 60 |
| 52 | Rehabilitative Soft Exoskeleton for Rodents. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 107-118. | 2.7 | 12 |
| 53 | Algorithm for architectural origami. Nature, 2017, 541, 296-297. | 13.7 | 4 |
| 54 | JammJoint: A Variable Stiffness Device Based on Granular Jamming for Wearable Joint Support. IEEE Robotics and Automation Letters, 2017, 2, 849-855. | 3.3 | 80 |

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| 55 | Mori: A Modular Origami Robot. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2153-2164. | 3.7 | 113 |
| 56 | Stiffness Control With Shape Memory Polymer in Underactuated Robotic Origamis. IEEE Transactions on Robotics, 2017, 33, 765-777. | 7.3 | 91 |
| 57 | A Low Profile Electromagnetic Actuator Design and Model for an Origami Parallel Platform. Journal of Mechanisms and Robotics, 2017, 9, . | 1.5 | 24 |
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| 60 | Grasp Mode and Compliance Control of an Underactuated Origami Gripper Using Adjustable Stiffness Joints. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2165-2173. | 3.7 | 93 |
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| 71 | A Novel Torsional Shape Memory Alloy Actuator: Modeling, Characterization, and Control. IEEE Robotics and Automation Magazine, 2016, 23, 65-74. | 2.2 | 34 |
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| 74 | Soft pneumatic actuator with adjustable stiffness layers for Multi-DoF Actuation. , 2015, , . | | 47 |
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| 91 | Development of an Anthropomorphic Robotic Arm and Hand for Interactive Humanoids. Journal of Bionic Engineering, 2012, 9, 133-142. | 2.7 | 35 |
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| 98 | Design and acceptability assessment of a new reversible orthosis. , 2008, , . | | 18 |
| 99 | Hybrid Wireless–Local Communication via Information Propagation for Modular Robotic Synchronization Applications. Advanced Intelligent Systems, 0, , 2100226. | 3.3 | 1 |