

Kyu-Jin Cho

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

134
papers

3,962
citations

29
h-index

59
g-index

155
ext. papers

5,018
ext. citations

5.4
avg, IF

5.85
L-index

#	Paper	IF	Citations
134	Deployable Soft Pneumatic Networks (D-PneuNets) Actuator With Dual-Morphing Origami Chambers for High-Compactness. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 1262-1269	4.2	1
133	A Dual-Origami Design that Enables the Quasisequential Deployment and Bending Motion of Soft Robots and Grippers. <i>Advanced Intelligent Systems</i> , 2022 , 4, 2100176	6	1
132	Underwater maneuvering of robotic sheets through buoyancy-mediated active flutter. <i>Science Robotics</i> , 2021 , 6,	18.6	3
131	High-load capacity origami transformable wheel. <i>Science Robotics</i> , 2021 , 6,	18.6	12
130	4D Printing of Continuous Shape Representation. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100133	6.8	3
129	Single to Multi: Data-Driven High Resolution Calibration Method for Piezoresistive Sensor Array. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 4970-4977	4.2	5
128	Reliability analysis of a tendon-driven actuation for soft robots. <i>International Journal of Robotics Research</i> , 2021 , 40, 494-511	5.7	7
127	Tendon-Driven Jamming Mechanism for Configurable Variable Stiffness. <i>Soft Robotics</i> , 2021 , 8, 109-118	9.2	5
126	Morphing Origami Block for Lightweight Reconfigurable System. <i>IEEE Transactions on Robotics</i> , 2021 , 37, 494-505	6.5	2
125	Slider-Tendon Linear Actuator with Under-actuation and Fast-connection for Soft Wearable Robots. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	0
124	Design Optimization of Asymmetric Patterns for Variable Stiffness of Continuum Tubular Robots. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
123	Review of machine learning methods in soft robotics. <i>PLoS ONE</i> , 2021 , 16, e0246102	3.7	22
122	Single EMG Sensor-Driven Robotic Glove Control for Reliable Augmentation of Power Grasping. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2021 , 3, 179-189	3.1	5
121	Body-powered variable impedance: An approach to augmenting humans with a passive device by reshaping lifting posture. <i>Science Robotics</i> , 2021 , 6,	18.6	2
120	A Positive Pressure Jamming Based Variable Stiffness Structure and its Application on Wearable Robots. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 8078-8085	4.2	7
119	Anthropomorphic Prosthetic Hand Inspired by Efficient Swing Mechanics for Sports Activities. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	1
118	Design of Continuum Robot With Variable Stiffness for Gastrointestinal Stenting Using Conformability Factor. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2020 , 2, 529-532	3.1	1

117	Development and Preclinical Trials of a Novel Steerable Cannula for 360° Arthroscopic Capsular Release in Minimally Invasive Surgery. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020, 2020, 4890</i>	0.9	4
116	Joint Angle Estimation of a Tendon-Driven Soft Wearable Robot through a Tension and Stroke Measurement. <i>Sensors, 2020, 20,</i>	3.8	5
115	Learning-Based Fingertip Force Estimation for Soft Wearable Hand Robot With Tendon-Sheath Mechanism. <i>IEEE Robotics and Automation Letters, 2020, 5, 946-953</i>	4.2	6
114	. <i>IEEE Robotics and Automation Letters, 2020, 5, 1883-1890</i>	4.2	9
113	Ladybird beetle-inspired compliant origami. <i>Science Robotics, 2020, 5,</i>	18.6	38
112	Interfacing Soft and Hard: A Spring Reinforced Actuator. <i>Soft Robotics, 2020, 7, 44-58</i>	9.2	22
111	A Needlescopic Wrist Mechanism With Articulated Motion and Kinematic Tractability for Micro Laparoscopic Surgery. <i>IEEE/ASME Transactions on Mechatronics, 2020, 25, 229-238</i>	5.5	8
110	. <i>IEEE Robotics and Automation Letters, 2020, 5, 5858-5865</i>	4.2	1
109	Control of a Bowden-Cable Actuation System With Embedded BoASensor for Soft Wearable Robots. <i>IEEE Transactions on Industrial Electronics, 2020, 67, 7669-7680</i>	8.9	10
108	Continuously Variable Stiffness Mechanism Using Nonuniform Patterns on Coaxial Tubes for Continuum Microsurgical Robot. <i>IEEE Transactions on Robotics, 2019, 35, 1475-1487</i>	6.5	18
107	Eyes are faster than hands: A soft wearable robot learns user intention from the egocentric view. <i>Science Robotics, 2019, 4,</i>	18.6	31
106	JumpRoACH: A Trajectory-Adjustable Integrated Jumping/Crawling Robot. <i>IEEE/ASME Transactions on Mechatronics, 2019, 24, 947-958</i>	5.5	19
105	Wearable Lymphedema Massaging Modules: Proof of Concept using Origami-inspired Soft Fabric Pneumatic Actuators. <i>IEEE International Conference on Rehabilitation Robotics, 2019, 2019, 950-956</i>	1.3	3
104	Exo-Wrist: A Soft Tendon-Driven Wrist-Wearable Robot With Active Anchor for Dart-Throwing Motion in Hemiplegic Patients. <i>IEEE Robotics and Automation Letters, 2019, 4, 4499-4506</i>	4.2	18
103	Research on Technology Status and Development Direction of Wearable Robot. <i>Fashion & Textile Research Journal, 2019, 21, 640-655</i>	0.5	6
102	Survey of Brassiere Related Clothing Tendency for Mastectomy Patients. <i>Fashion & Textile Research Journal, 2019, 21, 800-812</i>	0.5	
101	Bioinspired dual-morphing stretchable origami. <i>Science Robotics, 2019, 4,</i>	18.6	57
100	Exo-Glove Poly II: A Polymer-Based Soft Wearable Robot for the Hand with a Tendon-Driven Actuation System. <i>Soft Robotics, 2019, 6, 214-227</i>	9.2	70

99	Hygrobot: A self-locomotive ratcheted actuator powered by environmental humidity. <i>Science Robotics</i> , 2018 , 3,	18.6	178
98	An origami-inspired, self-locking robotic arm that can be folded flat. <i>Science Robotics</i> , 2018 , 3,	18.6	83
97	Design of a Bioinspired Robotic Hand: Magnetic Synapse Sensor Integration for a Robust Remote Tactile Sensing. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 3545-3552	4.2	6
96	Review of the Insect-Inspired Robots: from Single to Multi-Modal Locomotion. <i>Journal of the Korean Society for Precision Engineering</i> , 2018 , 35, 911-923	0.3	1
95	An Omnidirectional Jumper with Expanded Movability via Steering, Self-Righting and Take-off Angle Adjustment 2018 ,		2
94	Development of Efficiency Enhanced Scotch Yoke Mechanism for Robotic Fish. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018 , 19, 1507-1513	1.7	
93	Electronic skins for soft, compact, reversible assembly of wirelessly activated fully soft robots. <i>Science Robotics</i> , 2018 , 3,	18.6	104
92	The effect of leg compliance in multi-directional jumping of a flea-inspired mechanism. <i>Bioinspiration and Biomimetics</i> , 2017 , 12, 026006	2.6	15
91	Hydrodynamic advantages of a low aspect-ratio flapping foil. <i>Journal of Fluids and Structures</i> , 2017 , 71, 70-77	3.1	14
90	Origami Wheel Transformer: A Variable-Diameter Wheel Drive Robot Using an Origami Structure. <i>Soft Robotics</i> , 2017 , 4, 163-180	9.2	59
89	Development of a transformable wheel actuated by soft pneumatic actuators. <i>International Journal of Control, Automation and Systems</i> , 2017 , 15, 36-44	2.9	10
88	. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 1725-1732	4.2	64
87	Development and evaluation of a soft wearable weight support device for reducing muscle fatigue on shoulder. <i>PLoS ONE</i> , 2017 , 12, e0173730	3.7	27
86	A feasibility study on tension control of Bowden-cable based on a dual-wire scheme 2017 ,		8
85	A Novel Slack-Enabling Tendon Drive That Improves Efficiency, Size, and Safety in Soft Wearable Robots. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 59-70	5.5	24
84	Design of anisotropic pneumatic artificial muscles and their applications to soft wearable devices for text neck symptoms. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 4135-4138	0.9	4
83	Bio-inspired Design of a Double-Sided Crawling Robot. <i>Lecture Notes in Computer Science</i> , 2017 , 562-566	0.9	4
82	Frog hopper-inspired direction-changing concept for miniature jumping robots. <i>Bioinspiration and Biomimetics</i> , 2016 , 11, 056015	2.6	15

81	Force characteristics of rolling contact joint for compact structure 2016 ,		7
80	Vortical structures around a flexible oscillating panel for maximum thrust in a quiescent fluid. <i>Journal of Fluids and Structures</i> , 2016 , 67, 241-260	3.1	13
79	Development of a polymer-based tendon-driven wearable robotic hand 2016 ,		61
78	Fast, compact, and lightweight shape-shifting system composed of distributed self-folding origami modules 2016 ,		8
77	Dual-stiffness structures with reconfiguring mechanism: Design and investigation. <i>Journal of Intelligent Material Systems and Structures</i> , 2016 , 27, 995-1010	2.3	12
76	A Novel Low-Cost, Large Curvature Bend Sensor Based on a Bowden-Cable. <i>Sensors</i> , 2016 , 16,	3.8	15
75	Development of a Multi-functional Soft Robot (SNUMAX) and Performance in RoboSoft Grand Challenge. <i>Frontiers in Robotics and AI</i> , 2016 , 3,	2.8	7
74	Curved Compliant Facet Origami-Based Self-Deployable Gliding Wing Module for Jump-Gliding 2016 ,		2
73	Soft Robotic Blocks: Introducing SoBL, a Fast-Build Modularized Design Block. <i>IEEE Robotics and Automation Magazine</i> , 2016 , 23, 30-41	3.4	43
72	Biomimetic Robots 2016 , 543-574		10
71	BIOMECHANICS. Jumping on water: Surface tension-dominated jumping of water striders and robotic insects. <i>Science</i> , 2015 , 349, 517-21	33.3	188
70	Exo-Glove: A Wearable Robot for the Hand with a Soft Tendon Routing System. <i>IEEE Robotics and Automation Magazine</i> , 2015 , 22, 97-105	3.4	253
69	Investigation on the control strategy of soft wearable robotic hand with slack enabling tendon actuator 2015 ,		13
68	2015 ,		18
67	Effect of initial tool-plate curvature on snap-through load of unsymmetric laminated cross-ply bistable composites. <i>Composite Structures</i> , 2015 , 122, 82-91	5.3	20
66	Evaluation of an improved soft meal assistive exoskeleton with an adjustable weight-bearing system for people with disability 2015 ,		9
65	A large-stroke shape memory alloy spring actuator using double-coil configuration. <i>Smart Materials and Structures</i> , 2015 , 24, 095014	3.4	11
64	Anisotropic Patterning to Reduce Instability of Concentric-Tube Robots. <i>IEEE Transactions on Robotics</i> , 2015 , 31, 1311-1323	6.5	28

63	Feedforward friction compensation of Bowden-cable transmission via loop routing 2015,		13
62	Fabrication of Composite and Sheet Metal Laminated Bistable Jumping Mechanism. <i>Journal of Mechanisms and Robotics</i> , 2015 , 7,	2.2	11
61	Design of an Optically Controlled MR-Compatible Active Needle. <i>IEEE Transactions on Robotics</i> , 2015 , 31, 1-11	6.5	57
60	Toward a solution to the snapping problem in a concentric-tube continuum robot: Grooved tubes with anisotropy 2014,		29
59	Design of a variable-stiffness flapping mechanism for maximizing the thrust of a bio-inspired underwater robot. <i>Bioinspiration and Biomimetics</i> , 2014 , 9, 036002	2.6	39
58	Flytrap-inspired robot using structurally integrated actuation based on bistability and a developable surface. <i>Bioinspiration and Biomimetics</i> , 2014 , 9, 036004	2.6	84
57	Wheel Transformer: A Wheel-Leg Hybrid Robot With Passive Transformable Wheels. <i>IEEE Transactions on Robotics</i> , 2014 , 30, 1487-1498	6.5	70
56	Generalized curvature tailoring of bistable CFRP laminates by curing on a cylindrical tool-plate with misalignment. <i>Composites Science and Technology</i> , 2014 , 103, 127-133	8.6	9
55	Self-Folding Origami Using Torsion Shape Memory Alloy Wire Actuators 2014,		17
54	Development of A Meal Assistive Exoskeleton made of Soft Materials for polymyositis patients 2014,		9
53	Component assembly with shape memory polymer fastener for microrobots. <i>Smart Materials and Structures</i> , 2014 , 23, 015011	3.4	16
52	Role of compliant leg in the flea-inspired jumping mechanism 2014,		8
51	Development of an Insect Size Micro Jumping Robot. <i>Lecture Notes in Computer Science</i> , 2014 , 405-407	0.9	5
50	Design of a slider-crank leg mechanism for mobile hopping robotic platforms. <i>Journal of Mechanical Science and Technology</i> , 2013 , 27, 207-214	1.6	15
49	Meshworm: A Peristaltic Soft Robot With Antagonistic Nickel Titanium Coil Actuators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013 , 18, 1485-1497	5.5	404
48	Implementation of various control algorithms for hand rehabilitation exercise using wearable robotic hand. <i>Intelligent Service Robotics</i> , 2013 , 6, 181-189	2.6	31
47	Underactuated Adaptive Gripper Using Flexural Buckling. <i>IEEE Transactions on Robotics</i> , 2013 , 29, 1396-1407	6.9	27
46	Curvature tailoring of unsymmetric laminates with an initial curvature. <i>Journal of Composite Materials</i> , 2013 , 47, 3163-3174	2.7	19

45	Wake and thrust of an angularly reciprocating plate. <i>Journal of Fluid Mechanics</i> , 2013 , 720, 545-557	3.7	8
44	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013 , 18, 419-429	5.5	142
43	Deformable-wheel robot based on soft material. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013 , 14, 1439-1445	1.7	21
42	Deformable wheel robot based on origami structure 2013 ,		30
41	The Deformable Wheel Robot Using Magic-Ball Origami Structure 2013 ,		39
40	Flea inspired catapult mechanism with active energy storage and release for small scale jumping robot 2013 ,		22
39	A jumping robotic insect based on a torque reversal catapult mechanism 2013 ,		3
38	Concept of variable transmission for tendon driven mechanism 2013 ,		1
37	Design and manufacturing a robotic dolphin to increase dynamic performance 2013 ,		1
36	Sensorless displacement estimation of a shape memory alloy coil spring actuator using inductance. <i>Smart Materials and Structures</i> , 2013 , 22, 025001	3.4	22
35	Wheel transformer: A miniaturized terrain adaptive robot with passively transformed wheels 2013 ,		12
34	Design and Manufacturing a Bio-inspired Variable Stiffness Mechanism in a Robotic Dolphin. <i>Lecture Notes in Computer Science</i> , 2013 , 302-309	0.9	9
33	Kinematic Condition for Maximizing the Thrust of a Robotic Fish Using a Compliant Caudal Fin. <i>IEEE Transactions on Robotics</i> , 2012 , 28, 1216-1227	6.5	60
32	Deformable soft wheel robot using hybrid actuation 2012 ,		14
31	Design of the shape memory alloy coil spring actuator for the soft deformable wheel robot 2012 ,		5
30	Flea-Inspired Catapult Mechanism for Miniature Jumping Robots. <i>IEEE Transactions on Robotics</i> , 2012 , 28, 1007-1018	6.5	143
29	Engineering design framework for a shape memory alloy coil spring actuator using a static two-state model. <i>Smart Materials and Structures</i> , 2012 , 21, 055009	3.4	92
28	Design and analysis of a stiffness adjustable structure using an endoskeleton. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012 , 13, 1255-1258	1.7	25

27	Modification of microstructure and strength/conductivity properties of Cu-15 Ag in-situ composites by equal-channel angular pressing. <i>Metals and Materials International</i> , 2012 , 18, 355-360	2.4	18
26	Review of biomimetic underwater robots using smart actuators. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012 , 13, 1281-1292	1.7	227
25	Design of a passive brake mechanism for tendon driven devices. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012 , 13, 1487-1490	1.7	13
24	Evaluation of the antagonistic tendon driven system for SNU Exo-Glove 2012 ,		6
23	Capstan brake: Passive brake for tendon-driven mechanism 2012 ,		11
22	Soft Morphing Motion of Flytrap Robot Using Bending Propagating Actuation. <i>Journal of Institute of Control, Robotics and Systems</i> , 2012 , 18, 168-174	1	3
21	Maximum Thrust Condition by Compliant Joint of a Caudal Fin for Developing a Robotic Fish. <i>Journal of Institute of Control, Robotics and Systems</i> , 2012 , 18, 103-109	1	1
20	Snap-through behavior of bi-stable composite structure using SMA spring actuator 2011 ,		3
19	Jointless structure and under-actuation mechanism for compact hand exoskeleton. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2011 , 2011, 5975394	1.3	19
18	Meso-scale compliant gripper inspired by caterpillar's proleg 2011 ,		1
17	Design & analysis a flytrap robot using bi-stable composite 2011 ,		7
16	Omegabot: Crawling robot inspired by <i>Ascotis Selenaria</i> 2010 ,		4
15	Finger-sized climbing robot using artificial proleg 2010 ,		10
14	The effect of compliant joint and caudal fin in thrust generation for robotic fish 2010 ,		6
13	Towards a bio-mimetic flytrap robot based on a snap-through mechanism 2010 ,		20
12	Review of manufacturing processes for soft biomimetic robots. <i>International Journal of Precision Engineering and Manufacturing</i> , 2009 , 10, 171-181	1.7	182
11	Kinematic analysis and experimental verification on the locomotion of gecko. <i>Journal of Bionic Engineering</i> , 2009 , 6, 246-254	2.7	23
10	Omegabot : Biomimetic inchworm robot using SMA coil actuator and smart composite microstructures (SCM) 2009 ,		48

9	Design, fabrication and analysis of a body-caudal fin propulsion system for a microrobotic fish 2008 ,	2
8	Towards a biologically inspired small-scale water jumping robot 2008 ,	23
7	. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007 ,	14
6	Dimensionality reduction of cellular actuator arrays using the concept of synergy for driving a robotic hand. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 2718-21	
5	Architecture design of a multiaxis cellular actuator array using segmented binary control of shape memory alloy 2006 , 22, 831-843	22
4	Segmented binary control of shape memory alloy actuator systems using the Peltier effect 2004 ,	33
3	Multi-Axis SMA Actuator Array for Driving Anthropomorphic Robot Hand	2
2	Design and control of vast DOF wet SMA array actuators	8
1	Multi-Segment State Coordination for Reducing Latency Time of Shape Memory Alloy Actuator Systems	2