Hiroyuki Nabae

List of Publications by Year in descending order

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623734 580821 14 46 743 25 citations g-index h-index papers 46 46 46 550 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Giraffe Neck Robot: First Step Toward a Powerful and Flexible Robot Prototyping Based on Giraffe Anatomy. IEEE Robotics and Automation Letters, 2022, 7, 3539-3546.	5.1	13
2	Experimental comparison of antagonistic hydraulic muscle actuation under single/dual and zero/overlapped servovalve configurations. Mechatronics, 2022, 83, 102737.	3.3	2
3	Soft Tensegrity Robot Driven by Thin Artificial Muscles for the Exploration of Unknown Spatial Configurations. IEEE Robotics and Automation Letters, 2022, 7, 5349-5356.	5.1	21
4	Three-Dimensional Ion Polymer–Metal Composite Soft Robots. Journal of Robotics and Mechatronics, 2022, 34, 231-233.	1.0	2
5	Design and Fabrication of 3D Papercraft IPMC Robots. , 2022, , .		1
6	Shape Recognition of a Tensegrity With Soft Sensor Threads and Artificial Muscles Using a Recurrent Neural Network. IEEE Robotics and Automation Letters, 2021, 6, 6228-6234.	5.1	13
7	Tension Control Method Utilizing Antagonistic Tension to Enlarge the Workspace of Coupled Tendon-Driven Articulated Manipulator. IEEE Robotics and Automation Letters, 2021, 6, 6647-6653.	5.1	4
8	Self-excitation pneumatic soft actuator inspired by vocal cords. Sensors and Actuators A: Physical, 2021, 331, 112816.	4.1	7
9	Recurrent Braiding of Thin McKibben Muscles to Overcome Their Limitation of Contraction. Soft Robotics, 2020, 7, 251-258.	8.0	19
10	Development of Hiryu-II: A Long-Reach Articulated Modular Manipulator Driven by Thrusters. IEEE Robotics and Automation Letters, 2020, 5, 4963-4969.	5.1	6
11	Experimental Verification of Impact Absorbing Property of Wire Driven Joint with Synthetic Fiber Rope. , 2020, , .		O
12	Proposal and Prototyping of Self-Excited Pneumatic Actuator Using Automatic-Flow-Path-Switching-Mechanism. IEEE Robotics and Automation Letters, 2020, 5, 3058-3065.	5.1	4
13	Tendon-driven Elastic Telescopic Arm -Integration of Linear Motion and Bending Motion , 2020, , .		3
14	New Soft Robot Hand Configuration With Combined Biotensegrity and Thin Artificial Muscle. IEEE Robotics and Automation Letters, 2020, 5, 4345-4351.	5.1	31
15	Pneumatic Soft Actuator Using Self-Excitation Based on Automatic-Jet-Switching-Structure. IEEE Robotics and Automation Letters, 2020, 5, 4042-4048.	5.1	4
16	Design of a Guide Pulley Achieving Identical Wire Path Length for a Double Joint Mechanism. , 2020, , .		0
17	PF-IPMC: Paper/Fabric Assisted IPMC Actuators for 3D Crafts. IEEE Robotics and Automation Letters, 2020, 5, 4035-4041.	5.1	7
18	Simultaneous 3D Forming and Patterning Method of Realizing Soft IPMC Robots. , 2020, , .		2

#	Article	IF	Citations
19	IPMC Monolithic Thin Film Robots Fabricated Through a Multi-Layer Casting Process. IEEE Robotics and Automation Letters, 2019, 4, 1335-1342.	5.1	25
20	Active Textile Braided in Three Strands with Thin McKibben Muscle. Soft Robotics, 2019, 6, 250-262.	8.0	32
21	Fabrication of "18 Weave―Muscles and Their Application to Soft Power Support Suit for Upper Limbs Using Thin McKibben Muscle. IEEE Robotics and Automation Letters, 2019, 4, 2532-2538.	5.1	53
22	Bundled Wire Drive: Proposal and Feasibility Study of a Novel Tendon-Driven Mechanism Using Synthetic Fiber Ropes. IEEE Robotics and Automation Letters, 2019, 4, 966-972.	5.1	11
23	Soft Polymer-Electrolyte-Fuel-Cell Tube Realizing Air-Hose-Free Thin McKibben Muscles. , 2019, , .		7
24	Electrically-Driven Soft Fluidic Actuators Combining Stretchable Pumps With Thin McKibben Muscles. Frontiers in Robotics and Al, 2019, 6, 146.	3.2	24
25	Frequency Response of Honeycomb Structured IPMC Actuator Fabricated through 3D Printing with Dispersion Liquid. , 2019, , .		1
26	Modeling of Synthetic Fiber Ropes and Frequency Response of Long-Distance Cable–Pulley System. IEEE Robotics and Automation Letters, 2018, 3, 1743-1750.	5.1	16
27	Reduction of Residual Vibration in Displacement-Amplified Micro-Electromagnetic Actuators with Non-linear Dynamics Using Input Shaping. , 2018 , , .		0
28	A Proposal of Super Long Reach Articulated Manipulator with Gravity Compensation using Thrusters. , 2018, , .		9
29	Super-low friction and lightweight hydraulic cylinder using multi-directional forging magnesium alloy and its application to robotic leg. Advanced Robotics, 2018, 32, 524-534.	1.8	7
30	A proposal of a new rotational-compliant joint with oil-hydraulic McKibben artificial muscles. Advanced Robotics, 2018, 32, 511-523.	1.8	25
31	Effect of elastic element on self-excited electrostatic actuator. Sensors and Actuators A: Physical, 2018, 279, 725-732.	4.1	7
32	Braiding Thin McKibben Muscles to Enhance Their Contracting Abilities. IEEE Robotics and Automation Letters, 2018, 3, 3240-3246.	5.1	35
33	Muscle textile to implement soft suit to shift balancing posture of the body. , 2018, , .		29
34	Design of thin McKibben muscle and multifilament structure. Sensors and Actuators A: Physical, 2017, 261, 66-74.	4.1	106
35	Spiral Mecanum Wheel achieving omnidirectional locomotion in step-climbing. , 2017, , .		6
36	Analytical and experimental study on actuation time of displacement amplified electromagnetic actuator., 2017,,.		1

#	Article	IF	CITATIONS
37	Development of a 20-m-long Giacometti arm with balloon body based on kinematic model with air resistance. , $2017, \ldots$		29
38	Proposal of tendon-driven elastic telescopic arm and initial bending experiment., 2017,,.		4
39	Notice of Removal: A small three-way valve for hydraulic actuators using piezoelectric transducers. , 2017, , .		0
40	Design of a weight-compensated and coupled tendon-driven articulated long-reach manipulator. , $2016, $, .		18
41	Hose-free pneumatic bags-muscle driven by gas/liquid conversion. , 2016, , .		5
42	Untethered three-arm pneumatic robot using hose-free pneumatic actuator. , 2016, , .		14
43	Musculoskeletal lower-limb robot driven by multifilament muscles. ROBOMECH Journal, 2016, 3, .	1.6	100
44	A Novel Rubber Hand Illusion Paradigm Allowing Active Self-Touch With Variable Force Feedback Controlled by a Haptic Device. IEEE Transactions on Human-Machine Systems, 2016, 46, 78-87.	3.5	16
45	A small water flow control valve using particle excitation by PZT vibrator. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 221-222.	0.0	2
46	A novel manipulation method of human body ownership using an fMRI-compatible master–slave system. Journal of Neuroscience Methods, 2014, 235, 25-34.	2.5	22