# Koichi Suzumori

### List of Publications by Citations

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2,480 259 22 39 g-index h-index citations papers 3,082 306 1.9 5.32 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
259	A Bending Pneumatic Rubber Actuator Realizing Soft-bodied Manta Swimming Robot. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , <b>2007</b> ,		162
258	. IEEE/ASME Transactions on Mechatronics, <b>1999</b> , 4, 286-292	5.5	123
257	A micro ultrasonic motor using a micro-machined cylindrical bulk PZT transducer. <i>Sensors and Actuators A: Physical</i> , <b>2006</b> , 127, 131-138	3.9	108
256	Miniature Pneumatic Curling Rubber Actuator Generating Bidirectional Motion with One Air-Supply Tube. <i>Advanced Robotics</i> , <b>2011</b> , 25, 1311-1330	1.7	88
255	Elastic materials producing compliant robots. <i>Robotics and Autonomous Systems</i> , <b>1996</b> , 18, 135-140	3.5	82
254	Musculoskeletal lower-limb robot driven by multifilament muscles. ROBOMECH Journal, 2016, 3,	2.1	68
253	Design of thin McKibben muscle and multifilament structure. <i>Sensors and Actuators A: Physical</i> , <b>2017</b> , 261, 66-74	3.9	64
252	Miniature soft hand with curling rubber pneumatic actuators 2009,		59
251	Fiberless flexible microactuator designed by finite-element method. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>1997</b> , 2, 281-286	5.5	54
250	A Modular Soft Robotic Wrist for Underwater Manipulation. Soft Robotics, 2018, 5, 399-409	9.2	50
249	Design of a variable-stiffness robotic hand using pneumatic soft rubber actuators. <i>Smart Materials and Structures</i> , <b>2011</b> , 20, 105015	3.4	46
248	Flexible displacement sensor using injected conductive paste. <i>Sensors and Actuators A: Physical</i> , <b>2008</b> , 143, 272-278	3.9	41
247	Very High Force Hydraulic McKibben Artificial Muscle with a p-Phenylene-2,6-benzobisoxazole Cord Sleeve. <i>Advanced Robotics</i> , <b>2010</b> , 24, 233-254	1.7	36
246	Intelligent Actuators Realizing Snake-like Small Robot for Pipe Inspection 2006,		30
245	Load characteristics of mechanical pectoral fin. Experiments in Fluids, 2008, 44, 759-771	2.5	29
244	A Cylindrical Micro-Ultrasonic Motor Using Micromachined Bulk Piezoelectric Vibrator with Glass Case. <i>Japanese Journal of Applied Physics</i> , <b>2006</b> , 45, 4764-4769	1.4	29
243	Index Finger of a Human-Like Robotic Hand Using Thin Soft Muscles. <i>IEEE Robotics and Automation Letters</i> , <b>2018</b> , 3, 92-99	4.2	28

## (2011-2009)

241     Eabrication of IBS WeaveIMuscles and Their Application to Soft Power Support Sult for Upper Limbs Using Thin McKibben Muscle. IEEE Robotics and Automation Letters, 2019, 4, 2532-2538     42     37       240     Robotics, 2018, 32, 458-476     1,7     27       239     New mobile pressure control system for pneumatic actuators, using reversible chemical reactions of water. Sensors and Actuators At Physical, 2013, 201, 148-153     39     25       238     Automatic pipe negotiation control for snake-like robot 2008,     22       237     Development of large intestine endoscope changing its stiffness 2009,     22       238     Proplet generation using a torsional Langevin-type transducer and a micropore plate. Sensors and Actuators At Physical, 2009, 155, 168-174     39     22       235     New concept and fundamental experiments of a smart pneumatic artificial muscle with a conductive fiber. Sensors and Actuators At Physical, 2016, 250, 48-54     39     24       234     Muscle textile to implement soft suit to shift balancing posture of the body 2018,     20       235     Aproposal of a new rotational-compliant joint with oil-hydraulic McKibben artificial muscles.     17     20       236     An ultrasonic motor for cryogenic temperature using bolt-clamped Langevin-type transducer.     39     19       237     Development of an Intelligent Chair Tool System Applying New Intelligent Pneumatic Actuators. 2019, 24, 1503-1528     19       238     Development of an Intelligent Pneumatic Cylinder	242	Flow control valve for pneumatic actuators using particle excitation by PZT vibrator. <i>Sensors and Actuators A: Physical</i> , <b>2009</b> , 155, 285-289	3.9	28
New mobile pressure control system for pneumatic actuators, using reversible chemical reactions of water. Sensors and Actuators A: Physical, 2013, 201, 148-153  238 Automatic pipe negotiation control for snake-like robot 2008.  239 Development of large intestine endoscope changing its stiffness 2009,  230 Droplet generation using a torsional Langevin-type transducer and a micropore plate. Sensors and Actuators A: Physical, 2009, 155, 168-174  230 New concept and fundamental experiments of a smart pneumatic artificial muscle with a conductive fiber. Sensors and Actuators A: Physical, 2016, 250, 48-54  231 Muscle textile to implement soft suit to shift balancing posture of the body 2018,  232 A proposal of a new rotational-compliant joint with oil-hydraulic McKibben artificial muscles. Advanced Robotics, 2018, 32, 511-523  233 An ultrasonic motor for cryogenic temperature using bolt-clamped Langevin-type transducer. Sensors and Actuators A: Physical, 2012, 184, 134-140  234 Development of an Intelligent Chair Tool System Applying New Intelligent Pneumatic Actuators. A: Physical, 2012, 184, 134-140  235 Development of an Intelligent Chair Tool System Applying New Intelligent Pneumatic Actuators. A: Physical, 2012, 184, 134-140  236 Development of an Intelligent Chair Tool System Applying New Intelligent Pneumatic Actuators. A: Physical, 2019, 14, 82-92  237 Development of an Intelligent Chair Tool System Applying New Intelligent Pneumatic Actuators. A: Physical, 2019, 14, 82-92  248 Comparative Assessment of Several Nutation Motor Types. IEEE/ASME Transactions on Mechatronics, 2009, 14, 82-92  259 Development of a 20-m-long Giacometti arm with balloon body based on kinematic model with air resistance 2017.	241		4.2	27
of water. Sensors and Actuators A: Physical, 2013, 201, 148-153  23  Automatic pipe negotiation control for snake-like robot 2008,  23  Development of large intestine endoscope changing its stiffness 2009,  22  23  Droplet generation using a torsional Langevin-type transducer and a micropore plate. Sensors and Actuators A: Physical, 2009, 155, 168-174  New concept and fundamental experiments of a smart pneumatic artificial muscle with a conductive fiber. Sensors and Actuators A: Physical, 2016, 250, 48-54  Muscle textile to implement soft suit to shift balancing posture of the body 2018,  23  A proposal of a new rotational-compliant joint with oil-hydraulic McKibben artificial muscles.  Advanced Robotics, 2018, 32, 511-523  An ultrasonic motor for cryogenic temperature using bolt-clamped Langevin-type transducer.  23  An ultrasonic motor for cryogenic temperature using bolt-clamped Langevin-type transducer.  23  Development of an Intelligent Chair Tool System Applying New Intelligent Pneumatic Actuators.  Advanced Robotics, 2010, 24, 1503-1528  20  2010,  19  229  Development of an Intelligent Pneumatic Cylinder for Distributed Physical HumaniBachine interaction. Advanced Robotics, 2009, 23, 203-225  Comparative Assessment of Several Nutation Motor Types. IEEE/ASME Transactions on Mechatronics, 2009, 14, 82-92  Applying Flexible Microactuators to Pipeline Inspection Robots 1993, 515-520  19  Development of a 20-m-long Giacometti arm with balloon body based on kinematic model with air resistance 2017,	240		1.7	27
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Interaction. Advanced Robotics, 2009, 23, 203-225  Comparative Assessment of Several Nutation Motor Types. IEEE/ASME Transactions on Mechatronics, 2009, 14, 82-92  Applying Flexible Microactuators to Pipeline Inspection Robots 1993, 515-520  Development of a 20-m-long Giacometti arm with balloon body based on kinematic model with air resistance 2017,	230	2010,		19
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resistance <b>2017</b> ,	227	Applying Flexible Microactuators to Pipeline Inspection Robots <b>1993</b> , 515-520		19
225 Flexible artificial muscle by bundle of McKibben fiber actuators <b>2011</b> ,	226			18
	225	Flexible artificial muscle by bundle of McKibben fiber actuators <b>2011</b> ,		18

224	Braiding Thin McKibben Muscles to Enhance Their Contracting Abilities. <i>IEEE Robotics and Automation Letters</i> , <b>2018</b> , 3, 3240-3246	4.2	18
223	Design and evaluation of orifice arrangement for particle-excitation flow control valve. <i>Sensors and Actuators A: Physical</i> , <b>2011</b> , 171, 283-291	3.9	16
222	Development of very high force hydraulic McKibben artificial muscle and its application to shape-adaptable power hand <b>2009</b> ,		16
221	In-Pipe Inspection Micro Robot Adaptable to Changes in Pipe Diameter. <i>Journal of Robotics and Mechatronics</i> , <b>2003</b> , 15, 609-615	0.7	16
220	Long-Legged Hexapod Giacometti Robot Using Thin Soft McKibben Actuator. <i>IEEE Robotics and Automation Letters</i> , <b>2018</b> , 3, 100-107	4.2	16
219	New Soft Robot Hand Configuration With Combined Biotensegrity and Thin Artificial Muscle. <i>IEEE Robotics and Automation Letters</i> , <b>2020</b> , 5, 4345-4351	4.2	15
218	Integrated flexible microactuator systems. <i>Robotica</i> , <b>1996</b> , 14, 493-498	2.1	15
217	A Method of Designing and Fabricating Mckibben Muscles Driven by 7 MPa Hydraulics. <i>International Journal of Automation Technology</i> , <b>2012</b> , 6, 482-487	0.8	15
216	Active Textile Braided in Three Strands with Thin McKibben Muscle. Soft Robotics, 2019, 6, 250-262	9.2	14
215	Novel design of rubber tube actuator improving mountability and drivability for assisting colonosocope insertion <b>2011</b> ,		14
214	IPMC Monolithic Thin Film Robots Fabricated Through a Multi-Layer Casting Process. <i>IEEE Robotics and Automation Letters</i> , <b>2019</b> , 4, 1335-1342	4.2	13
213	A Compact McKibben Muscle Based Bending Actuator for Close-to-Body Application in Assistive Wearable Robots. <i>IEEE Robotics and Automation Letters</i> , <b>2020</b> , 5, 3042-3049	4.2	13
212	Long bending rubber mechanism combined contracting and extending tluidic actuators 2013,		13
211	A NEW PNEUMATIC CONTROL SYSTEM USING MULTIPLEX PNEUMATIC TRANSMISSION.  Proceedings of the JFPS International Symposium on Fluid Power, 2008, 2008, 439-442		13
210	Bolt-Clamped Langevin-Type Transducer for Ultrasonic Motor used at Ultralow Temperature. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2012</b> , 6, 104-112	0.6	12
209	Development of Worm-Rack Driven Cylindrical Crawler Unit. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2013</b> , 7, 422-431	0.6	12
208	2010,		12
207	Multiplex pneumatic control method for multi-drive system. <i>Sensors and Actuators A: Physical</i> , <b>2010</b> , 164, 88-94	3.9	12

206	Distributed Physical Human Machine Interaction Using Intelligent Pneumatic Cylinders 2008,		12	
205	Snake-like robot negotiating three-dimensional pipelines <b>2007</b> ,		12	
204	Development of Contraction and Extension Artificial Muscles with Different Braid Angles and Their Application to Stiffness Changeable Bending Rubber Mechanismby Their Combination. <i>Journal of Robotics and Mechatronics</i> , <b>2011</b> , 23, 582-588	0.7	12	
203	Design of a weight-compensated and coupled tendon-driven articulated long-reach manipulator <b>2016</b> ,		12	
202	2013,		11	
201	Emulsion Generating Microchannel Device Oscillated by 2.25 MHz Ultrasonic Vibrator. <i>Japanese Journal of Applied Physics</i> , <b>2010</b> , 49, 07HE13	1.4	11	
200	2006,		11	
199	Development of a stable localized visual inspection system for underwater structures. <i>Advanced Robotics</i> , <b>2016</b> , 30, 1415-1429	1.7	11	
198	Real-time position control of intelligent pneumatic actuator (IPA) system using optical encoder and pressure sensor. <i>Sensor Review</i> , <b>2013</b> , 33, 341-351	1.4	10	
197	Controller Design for Simulation Control of Intelligent Pneumatic Actuators (IPA) System. <i>Procedia Engineering</i> , <b>2012</b> , 41, 593-599		10	
196	Micro pneumatic curling actuator - Nematode actuator - 2009,		10	
195	Development of Pneumatic Wobble Motors <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , <b>1999</b> , 42, 392-397		10	
194	Micro-Walking Robot Driven by Flexible Microactuator. <i>Journal of Robotics and Mechatronics</i> , <b>1993</b> , 5, 537-541	0.7	10	
193	A study on temperature dependence of an ultrasonic motor for cryogenic environment. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 07HE15	1.4	9	
192	Development of Nutation Motors (1st Report, Driving Principle and Basic Characteristics of Pneumatic Nutation Motor). <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , <b>2006</b> , 72, 1194-1199		9	
191	Ultrasonic Motor Using Two Sector-Shaped Piezoelectric Transducers for Sample Spinning in High Magnetic Field. <i>Journal of Robotics and Mechatronics</i> , <b>2013</b> , 25, 384-391	0.7	9	
190	An Ultrasonic Motor for Use at Ultralow Temperature Using Lead Magnesium Niobatellead Titanate Single Crystal. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 07GE09	1.4	9	
189	Electrically-Driven Soft Fluidic Actuators Combining Stretchable Pumps With Thin McKibben Muscles. <i>Frontiers in Robotics and AI</i> , <b>2019</b> , 6, 146	2.8	9	

188	2019,		8
187	Modeling of Synthetic Fiber Ropes and Frequency Response of Long-Distance Cable <b>P</b> ulley System. <i>IEEE Robotics and Automation Letters</i> , <b>2018</b> , 3, 1743-1750	4.2	8
186	GPC Controller Design for an Intelligent Pneumatic Actuator. <i>Procedia Engineering</i> , <b>2012</b> , 41, 657-663		8
185	Development of Pneumatic Actuated Seating System to aid chair design <b>2010</b> ,		8
184	Development of Variable Stiffness Colonoscope Consisting of Pneumatic Drive Devices. <i>International Journal of Automation Technology</i> , <b>2011</b> , 5, 551-558	0.8	8
183	Recurrent Braiding of Thin McKibben Muscles to Overcome Their Limitation of Contraction. <i>Soft Robotics</i> , <b>2020</b> , 7, 251-258	9.2	8
182	Design of knee support device based on four-bar linkage and hydraulic artificial muscle. <i>ROBOMECH Journal</i> , <b>2020</b> , 7,	2.1	8
181	A Proposal of Super Long Reach Articulated Manipulator with Gravity Compensation using Thrusters <b>2018</b> ,		8
180	Soft manipulator using thin McKibben actuator <b>2018</b> ,		8
179	Microdroplet generation using an ultrasonic torsional transducer which has a micropore with a tapered nozzle. <i>Archive of Applied Mechanics</i> , <b>2016</b> , 86, 1751-1762	2.2	7
178	Development of a gas/liquid phase change actuator for high temperatures. <i>ROBOMECH Journal</i> , <b>2016</b> , 3,	2.1	7
177	Static analysis of powered low-back orthosis driven by thin pneumatic artificial muscles considering body surface deformation <b>2015</b> ,		7
176	2015,		7
175	Programmable System on Chip Distributed Communication and Control Approach for Human Adaptive Mechanical System. <i>Journal of Computer Science</i> , <b>2010</b> , 6, 852-861	0.5	7
174	Design and control of new intelligent pneumatic cylinder for intelligent chair tool application 2009,		7
173	Beautiful Flexible Microactuator changing its structural color with variable pitch grating 2011,		7
172	Roadmap on soft robotics: multifunctionality, adaptability and growth without borders. <i>Multifunctional Materials</i> ,	5.2	7
171	Modeling and Force Control of Thin Soft McKibben Actuator. <i>International Journal of Automation Technology</i> , <b>2016</b> , 10, 487-493	0.8	7

## (2016-2016)

170	Omnidirectional Soft Robot Platform with Flexible Actuators for Medical Assistive Device. <i>International Journal of Automation Technology</i> , <b>2016</b> , 10, 494-502	0.8	7	
169	Development of Active Links for Physical Man-Machine Interaction. <i>Journal of Robotics and Mechatronics</i> , <b>2005</b> , 17, 293-301	0.7	7	
168	Comparison in Characteristics of Textile Woven by Thin Pneumatic Artificial Muscle. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM</i> , <b>2015</b> , 2015.6, 43-44		7	
167	Untethered three-arm pneumatic robot using hose-free pneumatic actuator <b>2016</b> ,		7	
166	Proposal of flexible robotic arm with thin McKibben actuators mimicking octopus arm structure <b>2016</b> ,		7	
165	Predictive Functional Controller design for pneumatic actuator with stiffness characteristic 2013,		6	
164	A new mobile pressure control system for pneumatic actuators using reversible chemical reactions of water <b>2013</b> ,		6	
163	Multifilament pneumatic artificial muscles to mimic the human neck 2017,		6	
162	Experimental investigation of conductive fibers for a smart pneumatic artificial muscle 2015,		6	
161	Nonlinear mathematical model of an Intelligent Pneumatic Actuator (IPA) systems: Position and force controls <b>2012</b> ,		6	
160	An Ultrasonic Motor for Use at Ultralow Temperature Using Lead Magnesium Niobatellead Titanate Single Crystal. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 07GE09	1.4	6	
159	Development and control of a multifingered robotic hand using a pneumatic tendon-driven actuator. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2012</b> , 23, 345-352	2.3	6	
158	Three-Port Valve to Generate Length-Controllable Slug Flow for Chemical Process(Machine Elements, Design and Manufacturing). <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , <b>2010</b> , 76, 734-740		6	
157	Development of nutation motors (improvement of pneumatic nutation motor by optimizing diaphragm design). <i>Journal of Mechanical Science and Technology</i> , <b>2010</b> , 24, 25-28	1.6	6	
156	Micro rubber structure realizing multi-legged passive walking 2008,		6	
155	Application of Micro-Electro-Mechanical Systems (MEMS) as Sensors: A Review. <i>Journal of Robotics and Mechatronics</i> , <b>2020</b> , 32, 281-288	0.7	6	
154	Super-low friction and lightweight hydraulic cylinder using multi-directional forging magnesium alloy and its application to robotic leg. <i>Advanced Robotics</i> , <b>2018</b> , 32, 524-534	1.7	6	
153	Energy regenerative hose-free pneumatic actuator. <i>Sensors and Actuators A: Physical</i> , <b>2016</b> , 249, 1-7	3.9	5	

152	A functional adhesive robot skin with integrated micro rubber suction cups 2012,		5
151	Development of large intestine endoscope changing its stiffness -2nd report: Improvement of stiffness change device and insertion experiment- <b>2010</b> ,		5
150	NEW PNEUMATIC ACTUATORS PRODUCING BREAKTHROUGH IN MECHATRONICS. <i>Proceedings of the JFPS International Symposium on Fluid Power</i> , <b>2008</b> , 2008, 197-202		5
149	Force Feedback Mouse with Differential Mechanism for Omni-Traveling 2007,		5
148	Electrostatic linear microactuator mechanism for focusing a CCD camera. <i>Journal of Lightwave Technology</i> , <b>1999</b> , 17, 43-47	4	5
147	Particle-Excitation Flow-Control Valve using Piezo Vibration-Improvement for a High Flow Rate and Research on Controllability. <i>IEEJ Transactions on Sensors and Micromachines</i> , <b>2017</b> , 137, 32-37	0.2	5
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142	Development of Micro Inspection Robot for Small Piping <i>Journal of the Robotics Society of Japan</i> , <b>1999</b> , 17, 389-395	0.1	5
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133	Evaluation of electro conductive film and strain gage as displacement sensor for pneumatic artificial muscle <b>2011</b> ,		4
132	Micro rubber structure realizing multi-legged passive walking -integration and miniaturization by micro rubber molding process- <b>2009</b> ,		4
131	Design and evaluation of low-profile micro ultrasonic motors using sector shaped piezoelectric vibrators <b>2008</b> ,		4
130	Pneumatic Valve Operated by Multiplex Pneumatic Transmission. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2008</b> , 2, 222-229	0.6	4
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114	Development of Active 80-faced Polyhedron for haptic physical human-machine interface 2009,		3
113	PD-Fuzzy Logic Controller Design for Position Control of Intelligent Pneumatic Actuator System. <i>Communications in Computer and Information Science</i> , <b>2012</b> , 288-295	0.3	3
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106	A method to 3D print a programmable continuum actuator with single material using internal constraint. <i>Sensors and Actuators A: Physical</i> , <b>2021</b> , 324, 112674	3.9	3
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103	Self-excitation pneumatic soft actuator inspired by vocal cords. <i>Sensors and Actuators A: Physical</i> , <b>2021</b> , 331, 112816	3.9	3
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90	A cylindrical ultrasonic motor for NMR sample spinning in high magnetic field 2009,		2
89	Optimum design of pneumatic multi-chamber rubber tube actuator generating traveling deformation waves for colonoscope insertion <b>2008</b> ,		2
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65	Evaluation of thermal stress of transducers for cryogenic ultrasonic motors <b>2014</b> ,		1
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