

Koichi Suzumori

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.

259
papers

2,480
citations

22
h-index

39
g-index

306
ext. papers

3,082
ext. citations

1.9
avg, IF

5.32
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 259 | Experimental comparison of antagonistic hydraulic muscle actuation under single/dual and zero/overlapped servovalve configurations. <i>Mechatronics</i> , 2022 , 83, 102737 | 3 | 0 |
| 258 | Soft Tensegrity Robot Driven by Thin Artificial Muscles for the Exploration of Unknown Spatial Configurations. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 5349-5356 | 4.2 | 4 |
| 257 | Three-Dimensional Ion Polymer/Metal Composite Soft Robots. <i>Journal of Robotics and Mechatronics</i> , 2022 , 34, 231-233 | 0.7 | 1 |
| 256 | Overview of the Kakenhi Grant-in-Aid for Scientific Research on Innovative Areas: Science of Soft Robots. <i>Journal of Robotics and Mechatronics</i> , 2022 , 34, 195-201 | 0.7 | |
| 255 | Utility of a wearable robot for the fingers that uses pneumatic artificial muscles for patients with post-stroke spasticity 2022 , 13, 12-16 | | |
| 254 | Alternating pressure control system for hydraulic robots. <i>Mechatronics</i> , 2022 , 85, 102822 | 3 | 1 |
| 253 | Analysis of the multi-balloon dielectric elastomer actuator for traveling wave motion. <i>Sensors and Actuators A: Physical</i> , 2021 , 113243 | 3.9 | 3 |
| 252 | Safety-enhanced control strategy of a power soft robot driven by hydraulic artificial muscles. <i>ROBOMECH Journal</i> , 2021 , 8, | 2.1 | 2 |
| 251 | A method to 3D print a programmable continuum actuator with single material using internal constraint. <i>Sensors and Actuators A: Physical</i> , 2021 , 324, 112674 | 3.9 | 3 |
| 250 | Shape Recognition of a Tensegrity With Soft Sensor Threads and Artificial Muscles Using a Recurrent Neural Network. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 6228-6234 | 4.2 | 4 |
| 249 | Tension Control Method Utilizing Antagonistic Tension to Enlarge the Workspace of Coupled Tendon-Driven Articulated Manipulator. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 6647-6653 | 4.2 | 0 |
| 248 | Self-excitation pneumatic soft actuator inspired by vocal cords. <i>Sensors and Actuators A: Physical</i> , 2021 , 331, 112816 | 3.9 | 3 |
| 247 | 2020 , | | 2 |
| 246 | . <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 3058-3065 | 4.2 | 3 |
| 245 | Tendon-driven Elastic Telescopic Arm -Integration of Linear Motion and Bending Motion- 2020 , | | 2 |
| 244 | New Soft Robot Hand Configuration With Combined Biotensegrity and Thin Artificial Muscle. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 4345-4351 | 4.2 | 15 |
| 243 | A Compact McKibben Muscle Based Bending Actuator for Close-to-Body Application in Assistive Wearable Robots. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 3042-3049 | 4.2 | 13 |

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| 242 | . <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 4042-4048 | 4.2 | 3 |
| 241 | PF-IPMC: Paper/Fabric Assisted IPMC Actuators for 3D Crafts. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 4035-4041 | 4.2 | 4 |
| 240 | Application of Micro-Electro-Mechanical Systems (MEMS) as Sensors: A Review. <i>Journal of Robotics and Mechatronics</i> , 2020 , 32, 281-288 | 0.7 | 6 |
| 239 | New Robotics Pioneered by Fluid Power. <i>Journal of Robotics and Mechatronics</i> , 2020 , 32, 854-862 | 0.7 | 5 |
| 238 | Recurrent Braiding of Thin McKibben Muscles to Overcome Their Limitation of Contraction. <i>Soft Robotics</i> , 2020 , 7, 251-258 | 9.2 | 8 |
| 237 | Development of Hiryu-II: A Long-Reach Articulated Modular Manipulator Driven by Thrusters. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 4963-4969 | 4.2 | 3 |
| 236 | Design of knee support device based on four-bar linkage and hydraulic artificial muscle. <i>ROBOMECH Journal</i> , 2020 , 7, | 2.1 | 8 |
| 235 | A small three-way valve using particle excitation driven by a single piezoelectric transducer for hydraulic actuator. <i>Sensors and Actuators A: Physical</i> , 2020 , 316, 112363 | 3.9 | 3 |
| 234 | 2019 , | | 8 |
| 233 | IPMC Monolithic Thin Film Robots Fabricated Through a Multi-Layer Casting Process. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 1335-1342 | 4.2 | 13 |
| 232 | New Hydraulic Components for Tough Robots. <i>Springer Tracts in Advanced Robotics</i> , 2019 , 401-451 | 0.5 | 4 |
| 231 | Active Textile Braided in Three Strands with Thin McKibben Muscle. <i>Soft Robotics</i> , 2019 , 6, 250-262 | 9.2 | 14 |
| 230 | Fabrication of 18 Weave Muscles and Their Application to Soft Power Support Suit for Upper Limbs Using Thin McKibben Muscle. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 2532-2538 | 4.2 | 27 |
| 229 | Hydraulic Actuators for Tough Robots. <i>Journal of the Robotics Society of Japan</i> , 2019 , 37, 829-834 | 0.1 | |
| 228 | Electrically-Driven Soft Fluidic Actuators Combining Stretchable Pumps With Thin McKibben Muscles. <i>Frontiers in Robotics and AI</i> , 2019 , 6, 146 | 2.8 | 9 |
| 227 | Bundled Wire Drive: Proposal and Feasibility Study of a Novel Tendon-Driven Mechanism Using Synthetic Fiber Ropes. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 966-972 | 4.2 | 5 |
| 226 | Soft Robotics seen from Actuator Technology. <i>Journal of the Robotics Society of Japan</i> , 2019 , 37, 26-29 | 0.1 | 2 |
| 225 | Soft Polymer-Electrolyte-Fuel-Cell Tube Realizing Air-Hose-Free Thin McKibben Muscles 2019 , | | 3 |

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| 224 | A small three-way valve using particle excitation with piezoelectric transducers for hydraulic actuators. <i>Advanced Robotics</i> , 2018 , 32, 500-510 | 1.7 | 4 |
| 223 | A Modular Soft Robotic Wrist for Underwater Manipulation. <i>Soft Robotics</i> , 2018 , 5, 399-409 | 9.2 | 50 |
| 222 | Trends in hydraulic actuators and components in legged and tough robots: a review. <i>Advanced Robotics</i> , 2018 , 32, 458-476 | 1.7 | 27 |
| 221 | Modeling of Synthetic Fiber Ropes and Frequency Response of Long-Distance CableBulley System. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 1743-1750 | 4.2 | 8 |
| 220 | Index Finger of a Human-Like Robotic Hand Using Thin Soft Muscles. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 92-99 | 4.2 | 28 |
| 219 | Muscle textile to implement soft suit to shift balancing posture of the body 2018 , | | 20 |
| 218 | Special Issue on New Hydraulic Components for Tough Robots <i>Advanced Robotics</i> , 2018 , 32, 457-457 | 1.7 | |
| 217 | Long-Legged Hexapod Giacometti Robot Using Thin Soft McKibben Actuator. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 100-107 | 4.2 | 16 |
| 216 | Fabrication and Evaluation of Hydraulic Particle Excitation Valve Vibrated Perpendicularly to Direction of Flow Path. <i>JFPS International Journal of Fluid Power System</i> , 2018 , 11, 9-17 | 0.3 | 2 |
| 215 | Effect of Pre-emulsion State for a Generation of Nano-emulsion by an Ultrasonic Vibration Device. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2018 , 138, 394-400 | 0.2 | |
| 214 | Micro Droplets Generation in a Flowing Continuous Liquid Using an Ultrasonic Transducer 2018 , | | 1 |
| 213 | Prototyping of cylindrical structures made of helical artificial muscles. <i>Transactions of the JSME (in Japanese)</i> , 2018 , 84, 18-00083-18-00083 | 0.2 | 1 |
| 212 | A Proposal of Super Long Reach Articulated Manipulator with Gravity Compensation using Thrusters 2018 , | | 8 |
| 211 | Soft manipulator using thin McKibben actuator 2018 , | | 8 |
| 210 | Super-low friction and lightweight hydraulic cylinder using multi-directional forging magnesium alloy and its application to robotic leg. <i>Advanced Robotics</i> , 2018 , 32, 524-534 | 1.7 | 6 |
| 209 | A proposal of a new rotational-compliant joint with oil-hydraulic McKibben artificial muscles. <i>Advanced Robotics</i> , 2018 , 32, 511-523 | 1.7 | 20 |
| 208 | Braiding Thin McKibben Muscles to Enhance Their Contracting Abilities. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 3240-3246 | 4.2 | 18 |
| 207 | Design of thin McKibben muscle and multifilament structure. <i>Sensors and Actuators A: Physical</i> , 2017 , 261, 66-74 | 3.9 | 64 |

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| 206 | Optimization of orifice position in particle-excitation valve for proportional flow control. <i>ROBOMECH Journal</i> , 2017 , 4, | 2.1 | 3 |
| 205 | Hydraulic Control by Flow Control Valve Using Particle Excitation. <i>JFPS International Journal of Fluid Power System</i> , 2017 , 10, 38-46 | 0.3 | 2 |
| 204 | Analytical and experimental study on actuation time of displacement amplified electromagnetic actuator 2017 , | | 1 |
| 203 | Multifilament pneumatic artificial muscles to mimic the human neck 2017 , | | 6 |
| 202 | Development of a 20-m-long Giacometti arm with balloon body based on kinematic model with air resistance 2017 , | | 18 |
| 201 | Proposal of tendon-driven elastic telescopic arm and initial bending experiment 2017 , | | 2 |
| 200 | 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> , 2017 , 137, 32-37 | 0.2 | 5 |
| 199 | Microdroplet generation using an ultrasonic torsional transducer which has a micropore with a tapered nozzle. <i>Archive of Applied Mechanics</i> , 2016 , 86, 1751-1762 | 2.2 | 7 |
| 198 | Energy regenerative hose-free pneumatic actuator. <i>Sensors and Actuators A: Physical</i> , 2016 , 249, 1-7 | 3.9 | 5 |
| 197 | New concept and fundamental experiments of a smart pneumatic artificial muscle with a conductive fiber. <i>Sensors and Actuators A: Physical</i> , 2016 , 250, 48-54 | 3.9 | 21 |
| 196 | Musculoskeletal lower-limb robot driven by multifilament muscles. <i>ROBOMECH Journal</i> , 2016 , 3, | 2.1 | 68 |
| 195 | A piezoelectric polymer cavitation sensor installed in an emulsion generation microchannel device and an evaluation of cavitation state. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 07KE07 | 1.4 | 0 |
| 194 | Development of a gas/liquid phase change actuator for high temperatures. <i>ROBOMECH Journal</i> , 2016 , 3, | 2.1 | 7 |
| 193 | Modeling and Force Control of Thin Soft McKibben Actuator. <i>International Journal of Automation Technology</i> , 2016 , 10, 487-493 | 0.8 | 7 |
| 192 | Omnidirectional Soft Robot Platform with Flexible Actuators for Medical Assistive Device. <i>International Journal of Automation Technology</i> , 2016 , 10, 494-502 | 0.8 | 7 |
| 191 | Development of a Rubber Soft Actuator Driven with Gas/Liquid Phase Change. <i>International Journal of Automation Technology</i> , 2016 , 10, 517-524 | 0.8 | 5 |
| 190 | Development of Novel Particle Excitation Flow Control Valve for Stable Flow Characteristics. <i>International Journal of Automation Technology</i> , 2016 , 10, 540-548 | 0.8 | 2 |
| 189 | Hydraulic control by flow control valve using particle excitation. <i>Transactions of the Japan Fluid Power System Society</i> , 2016 , 47, 39-46 | 0 | 2 |

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| 188 | Study of Droplet Manipulation Condition in Droplet Manipulation Device using Ultrasonic Vibration. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2016 , 136, 348-356 | 0.2 | |
| 187 | Hose-free Pneumatic Actuator using Reversible Chemical Reaction. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , 2016 , 2016, 2A1-05a5 | 0 | 2 |
| 186 | Development of a Hose-Free FMA Driven by a Built-In Gas/Liquid Chemical Reactor. <i>International Journal of Automation Technology</i> , 2016 , 10, 511-516 | 0.8 | 1 |
| 185 | Development of a stable localized visual inspection system for underwater structures. <i>Advanced Robotics</i> , 2016 , 30, 1415-1429 | 1.7 | 11 |
| 184 | A novel long-reach robot with propulsion through water-jet 2016 , | | 4 |
| 183 | Design of a weight-compensated and coupled tendon-driven articulated long-reach manipulator 2016 , | | 12 |
| 182 | Hose-free pneumatic bags-muscle driven by gas/liquid conversion 2016 , | | 1 |
| 181 | Untethered three-arm pneumatic robot using hose-free pneumatic actuator 2016 , | | 7 |
| 180 | R-Crank: Amphibious all terrain mobile robot 2016 , | | 2 |
| 179 | Proposal of flexible robotic arm with thin McKibben actuators mimicking octopus arm structure 2016 , | | 7 |
| 178 | Highly responsive and stable flow control valve using a PZT transducer 2016 , | | 3 |
| 177 | Predictive Functional Control with Observer (PFC-O) Design and Loading Effects Performance for a Pneumatic System. <i>Arabian Journal for Science and Engineering</i> , 2015 , 40, 633-643 | | 3 |
| 176 | Small size pneumatic valve for smooth flow control using PZT vibrator 2015 , | | 1 |
| 175 | Experimental investigation of conductive fibers for a smart pneumatic artificial muscle 2015 , | | 6 |
| 174 | A study on temperature dependence of an ultrasonic motor for cryogenic environment. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 07HE15 | 1.4 | 9 |
| 173 | Next-generation Actuators Leading New Robotics. <i>Journal of the Robotics Society of Japan</i> , 2015 , 33, 656-659 | 0.1 | 4 |
| 172 | Static analysis of powered low-back orthosis driven by thin pneumatic artificial muscles considering body surface deformation 2015 , | | 7 |
| 171 | Intelligent pneumatic assisted therapy on ankle rehabilitation 2015 , | | 4 |

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| 170 | 2015, | | 7 |
| 169 | Design and locomotion of eight-legged soft mobile robot. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015</i> , 2015.6, 128-129 | | 1 |
| 168 | A small water flow control valve using particle excitation by PZT vibrator. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015</i> , 2015.6, 221-222 | | 2 |
| 167 | Strength of Synthetic Fiber Ropes Degraded by Repetitive Bending. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015</i> , 2015.6, 27-28 | | |
| 166 | 1A1-B10 Development of proportional control valve using particle excitation : Development of Prototype for Stable Flow Characteristic. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2015</i> , 2015, _1A1-B10_1-_1A1-B10_3 | 0 | 1 |
| 165 | Design of Hexapod Giacometti Robot with Very Long, Light, and Thin Legs. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015</i> , 2015.6, 136-137 | | 2 |
| 164 | FastWalking with Consideration of an Acceleration and a Deceleration for a Quadruped Robot. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015</i> , 2015.6, 206-207 | | 0 |
| 163 | Establishment of a simplified simulation method for Axially Reinforced Pneumatic Artificial Muscle by introducing Anisotropic Material. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015</i> , 2015.6, 276-277 | | |
| 162 | Speed Control of Pneumatic Cylinder using Particle-Excitation Flow Control Valve. <i>Transactions of the Japan Fluid Power System Society, 2015</i> , 46, 7-13 | 0 | 1 |
| 161 | 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, 2015</i> , 2015.6, 43-44 | | 7 |
| 160 | Development of a hand rehabilitation system to prevent contracture for finger joints based on the therapy of occupational therapists (Massage a hand and range of motion exercises using pneumatic soft actuators). <i>Transactions of the JSME (in Japanese), 2014</i> , 80, TRANS0348-TRANS0348 | 0.2 | 4 |
| 159 | Evaluation of thermal stress of transducers for cryogenic ultrasonic motors 2014, | | 1 |
| 158 | Ultrasonic motor for sample spinning of solid-state nuclear magnetic resonance spectrometer in high magnetic field 2014, | | 1 |
| 157 | System Identification and Embedded Controller Design for Pneumatic Actuator with Stiffness Characteristic. <i>Mathematical Problems in Engineering, 2014</i> , 2014, 1-13 | 1.1 | 2 |
| 156 | Gas/Liquid Phase Change Actuator for Use in Extreme Temperature Environments. <i>International Journal of Automation Technology, 2014</i> , 8, 140-146 | 0.8 | 5 |
| 155 | Micro-Beaker Chemical Process using a Slide Type Three-Port Valve System for Slug Flow Generation. <i>Kagaku Kogaku Ronbunshu, 2014</i> , 40, 38-42 | 0.4 | 0 |
| 154 | New Pneumatic Rubber Leg Mechanism for Omnidirectional Locomotion. <i>International Journal of Automation Technology, 2014</i> , 8, 222-230 | 0.8 | 4 |
| 153 | Comparison between PFC and PID control system for tendon-driven balloon actuator 2013, | | 2 |

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| 152 | Real-time position control of intelligent pneumatic actuator (IPA) system using optical encoder and pressure sensor. <i>Sensor Review</i> , 2013 , 33, 341-351 | 1.4 | 10 |
| 151 | 2013 , | | 11 |
| 150 | Predictive Functional Controller design for pneumatic actuator with stiffness characteristic 2013 , | | 6 |
| 149 | A new mobile pressure control system for pneumatic actuators using reversible chemical reactions of water 2013 , | | 6 |
| 148 | New mobile pressure control system for pneumatic actuators, using reversible chemical reactions of water. <i>Sensors and Actuators A: Physical</i> , 2013 , 201, 148-153 | 3.9 | 25 |
| 147 | Generalized predictive controller using Bat algorithm for double acting pneumatic cylinder 2013 , | | 2 |
| 146 | Long bending rubber mechanism combined contracting and extending fluidic actuators 2013 , | | 13 |
| 145 | An Ultrasonic Motor Using a Titanium Transducer for a Cryogenic Environment. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 07HE13 | 1.4 | 3 |
| 144 | Development of Worm-Rack Driven Cylindrical Crawler Unit. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2013 , 7, 422-431 | 0.6 | 12 |
| 143 | Predictive Functional Control of Tendon-Driven Actuator Using Pneumatic Balloon. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2013 , 7, 752-762 | 0.6 | 2 |
| 142 | Light-Driven Actuator Using Hydrothermally Deposited PLZT Film. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2013 , 133, 330-336 | 0.2 | 2 |
| 141 | Ultrasonic Motor Using Two Sector-Shaped Piezoelectric Transducers for Sample Spinning in High Magnetic Field. <i>Journal of Robotics and Mechatronics</i> , 2013 , 25, 384-391 | 0.7 | 9 |
| 140 | Adhesive Soft Robot Skin with Integrated Micro Suction Cups. <i>Journal of the Robotics Society of Japan</i> , 2013 , 31, 98-106 | 0.1 | 2 |
| 139 | Predictive Functional Control System for Stroke Control of a Pneumatic Tendon-driven Balloon Actuator. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2013 , 225-232 | 0.6 | |
| 138 | Bolt-Clamped Langevin-Type Transducer for Ultrasonic Motor used at Ultralow Temperature. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2012 , 6, 104-112 | 0.6 | 12 |
| 137 | Controller Design for Simulation Control of Intelligent Pneumatic Actuators (IPA) System. <i>Procedia Engineering</i> , 2012 , 41, 593-599 | | 10 |
| 136 | GPC Controller Design for an Intelligent Pneumatic Actuator. <i>Procedia Engineering</i> , 2012 , 41, 657-663 | | 8 |
| 135 | A functional adhesive robot skin with integrated micro rubber suction cups 2012 , | | 5 |

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| 134 | System Identification model for an Intelligent Pneumatic Actuator (IPA) system 2012 , | | 3 |
| 133 | Nonlinear mathematical model of an Intelligent Pneumatic Actuator (IPA) systems: Position and force controls 2012 , | | 6 |
| 132 | An ultrasonic motor for cryogenic temperature using bolt-clamped Langevin-type transducer. <i>Sensors and Actuators A: Physical</i> , 2012 , 184, 134-140 | 3.9 | 19 |
| 131 | Evaluation of generated micro droplets using micropore plates oscillated by ultrasonic torsional transducers. <i>Sensors and Actuators A: Physical</i> , 2012 , 185, 92-92 | 3.9 | 4 |
| 130 | Flow Rate Control using Particle Excitation Valve with Non-linear Compensation. <i>Transactions of the Japan Fluid Power System Society</i> , 2012 , 43, 117-121 | 0 | 1 |
| 129 | PD-Fuzzy Logic Controller Design for Position Control of Intelligent Pneumatic Actuator System. <i>Communications in Computer and Information Science</i> , 2012 , 288-295 | 0.3 | 3 |
| 128 | An Ultrasonic Motor for Use at Ultralow Temperature Using Lead Magnesium Niobate/Lead Titanate Single Crystal. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 07GE09 | 1.4 | 6 |
| 127 | Droplets generation in the flowing ambient liquid by using an ultrasonic torsional transducer 2012 , | | 3 |
| 126 | Development and control of a multifingered robotic hand using a pneumatic tendon-driven actuator. <i>Journal of Intelligent Material Systems and Structures</i> , 2012 , 23, 345-352 | 2.3 | 6 |
| 125 | Development of Slide Type Three-Port Valve for Slug Flow Chemical Process. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2012 , 78, 305-311 | | 1 |
| 124 | A Method of Designing and Fabricating McKibben Muscles Driven by 7 MPa Hydraulics. <i>International Journal of Automation Technology</i> , 2012 , 6, 482-487 | 0.8 | 15 |
| 123 | An Ultrasonic Motor for Use at Ultralow Temperature Using Lead Magnesium Niobate/Lead Titanate Single Crystal. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 07GE09 | 1.4 | 9 |
| 122 | 1208 Working Fluid Phase Transition Actuator for High Temperature Environment 3 [^] report : Driving Experiment Under 180 ^o Environment. <i>The Proceedings of the Machine Design and Tribology Division Meeting in JSME</i> , 2012 , 2012.12, 65-66 | | 1 |
| 121 | 2P1-F02 Working Fluid Phase Transition Actuator for High Temperature Environment : 2 [^] report: Static Property of Actuator(Robotics & Mechatronics in Hyper Environment). <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , 2012 , 2012, _2P1-F02_1-_2P1-F02_4 | 0 | 1 |
| 120 | Predictive Functional Control of Stiffness-changeable Finger Using Soft Rubber Device. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2012 , 48, 470-478 | 0.1 | 1 |
| 119 | Design and Evaluation of Electromagnetic Wobble Motor. <i>Journal of Robotics and Mechatronics</i> , 2012 , 24, 480-486 | 0.7 | 1 |
| 118 | Novel design of rubber tube actuator improving mountability and drivability for assisting colonoscope insertion 2011 , | | 14 |
| 117 | Development of Active Separation System for Slug Flow in Chemical Process. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2011 , 77, 1109-1118 | | 2 |

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| 116 | Expectations about New Actuators. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2011 , 77, 2412-2419 | | 3 |
| 115 | Design and evaluation of orifice arrangement for particle-excitation flow control valve. <i>Sensors and Actuators A: Physical</i> , 2011 , 171, 283-291 | 3.9 | 16 |
| 114 | Evaluation of electro conductive film and strain gage as displacement sensor for pneumatic artificial muscle 2011 , | | 4 |
| 113 | Design and evaluation of ultrasonic motor located in cryogenic temperature environments 2011 , | | 1 |
| 112 | 2011 , | | 3 |
| 111 | A low-profile micro ultrasonic motor for NMR sample spinning in high magnetic field 2011 , | | 2 |
| 110 | Miniature Pneumatic Curling Rubber Actuator Generating Bidirectional Motion with One Air-Supply Tube. <i>Advanced Robotics</i> , 2011 , 25, 1311-1330 | 1.7 | 88 |
| 109 | Design and Evaluation of Emulsion Generation Device Using Ultrasonic Vibration and Microchannel. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 07HE24 | 1.4 | 3 |
| 108 | Continuous air control using particle excitation valve 2011 , | | 2 |
| 107 | Beautiful Flexible Microactuator changing its structural color with variable pitch grating 2011 , | | 7 |
| 106 | Design of a variable-stiffness robotic hand using pneumatic soft rubber actuators. <i>Smart Materials and Structures</i> , 2011 , 20, 105015 | 3.4 | 46 |
| 105 | Flexible artificial muscle by bundle of McKibben fiber actuators 2011 , | | 18 |
| 104 | Development of Variable Stiffness Colonoscope Consisting of Pneumatic Drive Devices. <i>International Journal of Automation Technology</i> , 2011 , 5, 551-558 | 0.8 | 8 |
| 103 | Development of Contraction and Extension Artificial Muscles with Different Braid Angles and Their Application to Stiffness Changeable Bending Rubber Mechanisms by Their Combination. <i>Journal of Robotics and Mechatronics</i> , 2011 , 23, 582-588 | 0.7 | 12 |
| 102 | Design and Evaluation of Emulsion Generation Device Using Ultrasonic Vibration and Microchannel. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 07HE24 | 1.4 | 1 |
| 101 | ?????????????????. <i>Journal of the Robotics Society of Japan</i> , 2011 , 29, 484-487 | 0.1 | |
| 100 | Design and Basic Characteristics of Pneumatic Rubber Tube Actuator for Colonoscope Insertion. <i>Journal of the Robotics Society of Japan</i> , 2011 , 29, 619-625 | 0.1 | |
| 99 | ?????????????????. <i>Journal of the Japan Society for Precision Engineering</i> , 2011 , 77, 828-831 | 0.1 | |

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| 98 | Programmable System on Chip Distributed Communication and Control Approach for Human Adaptive Mechanical System. <i>Journal of Computer Science</i> , 2010 , 6, 852-861 | 0.5 | 7 |
| 97 | A micro ultrasonic motor controlled by using a built-in micro magnetic encoder 2010 , | | 2 |
| 96 | PLZT film actuators deposited by a hydrothermal method 2010 , | | 1 |
| 95 | 2010 , | | 12 |
| 94 | Experimental analysis on pneumatic flow control valve driven by PZT vibrator 2010 , | | 3 |
| 93 | Development of an Intelligent Chair Tool System Applying New Intelligent Pneumatic Actuators. <i>Advanced Robotics</i> , 2010 , 24, 1503-1528 | 1.7 | 19 |
| 92 | Emulsion Generating Microchannel Device Oscillated by 2.25 MHz Ultrasonic Vibrator. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 07HE13 | 1.4 | 11 |
| 91 | Very High Force Hydraulic McKibben Artificial Muscle with a p-Phenylene-2,6-benzobisoxazole Cord Sleeve. <i>Advanced Robotics</i> , 2010 , 24, 233-254 | 1.7 | 36 |
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