Gursel Alici

List of Publications by Year
in descending order

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356 papers	11,427 citations	25034 57 h-index	46799 89 g-index
361 all docs	361 docs citations	361 times ranked	8491 citing authors

#	Article	IF	Citations
1	Fundamentals and applications of inertial microfluidics: a review. Lab on A Chip, 2016, 16, 10-34.	6.0	737
2	Enhanced stiffness modeling, identification and characterization for robot manipulators. , 2005, 21, 554-564.		268
3	A Review of Localization Systems for Robotic Endoscopic Capsules. IEEE Transactions on Biomedical Engineering, 2012, 59, 2387-2399.	4.2	219
4	A review on performance enhancement techniques for ambient vibration energy harvesters. Renewable and Sustainable Energy Reviews, 2017, 71, 435-449.	16.4	188
5	Recent progress of particle migration in viscoelastic fluids. Lab on A Chip, 2018, 18, 551-567.	6.0	186
6	Development and dynamic modelling of a flexure-based Scottâ€“Russell mechanism for nano-manipulation. Mechanical Systems and Signal Processing, 2009, 23, 957-978.	8.0	182
7	Fast trilayer polypyrrole bending actuators for high speed applications. Synthetic Metals, 2006, 156, 1017-1022.	3.9	178
8	A review of microfabrication techniques and dielectrophoretic microdevices for particle manipulation and separation. Journal Physics D: Applied Physics, 2014, 47, 063001.	2.8	174
9	Electroactive polymer actuators as artificial muscles: are they ready for bioinspired applications?. Bioinspiration and Biomimetics, 2011, 6, 045006.	2.9	173
10	A systematic technique to estimate positioning errors for robot accuracy improvement using laser interferometry based sensing. Mechanism and Machine Theory, 2005, 40, 879-906.	4.5	171
11	Size-dependent performance of microgyroscopes. International Journal of Engineering Science, 2016, 100, 99-111.	5.0	160
12	Inertial particle separation by differential equilibrium positions in a symmetrical serpentine micro-channel. Scientific Reports, 2014, 4, 4527.	3.3	152
13	A Review of Non-Invasive Sensory Feedback Methods for Transradial Prosthetic Hands. IEEE Access, 2018, 6, 6878-6899.	4.2	152
14	3D Printed Flexure Hinges for Soft Monolithic Prosthetic Fingers. Soft Robotics, 2016, 3, 120-133.	8.0	135
15	Modeling and Experimental Evaluation of Bending Behavior of Soft Pneumatic Actuators Made of Discrete Actuation Chambers. Soft Robotics, 2018, 5, 24-35.	8.0	128
16	Bending modeling and its experimental verification for conducting polymer actuators dedicated to manipulation applications. Sensors and Actuators A: Physical, 2006, 126, 396-404.	4.1	124
17	Bioinspired 3D Printable Soft Vacuum Actuators for Locomotion Robots, Grippers and Artificial Muscles. Soft Robotics, 2018, 5, 685-694.	8.0	121
18	Particle inertial focusing and its mechanism in a serpentine microchannel. Microfluidics and Nanofluidics, 2014, 17, 305-316.	2.2	114

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19	A review of drug delivery systems for capsule endoscopy. Advanced Drug Delivery Reviews, 2014, 71, 77-85.	13.7	112
20	Soft and smart modular structures actuated by shape memory alloy (SMA) wires as tentacles of soft robots. Smart Materials and Structures, 2016, 25, 085026.	3.5	107
21	A 3D-Printed Omni-Purpose Soft Gripper. IEEE Transactions on Robotics, 2019, 35, 1268-1275.	10.3	102
22	Predicting force output of trilayer polymer actuators. Sensors and Actuators A: Physical, 2006, 132, 616-625.	4.1	100
23	Microstructure and magnetorheology of graphite-based MR elastomers. Rheologica Acta, 2011, 50, 825-836.	2.4	96
24	Development of a novel multi-layer MRE isolator for suppression of building vibrations under seismic events. Mechanical Systems and Signal Processing, 2016, 70-71, 811-820.	8.0	96
25	Soft Mechanical Sensors Through Reverse Actuation in Polypyrrole. Advanced Functional Materials, 2007, 17, 3216-3222.	14.9	92
26	Topology optimisation and singularity analysis of a 3-SPS parallel manipulator with a passive constraining spherical joint. Mechanism and Machine Theory, 2004, 39, 215-235.	4.5	91
27	Bioinspired Three-Dimensional-Printed Helical Soft Pneumatic Actuators and Their Characterization. Soft Robotics, 2020, 7, 267-282.	8.0	91
28	Performance Quantification of Conducting Polymer Actuators for Real Applications: A Microgripping System. IEEE/ASME Transactions on Mechatronics, 2007, 12, 73-84.	5.8	89
29	3D printing Vegemite and Marmite: Redefining â€œbreadboardsâ€• Journal of Food Engineering, 2018, 220, 83-88.	5.2	89
30	Kinematics and singularity analyses of a 4-dof parallel manipulator using screw theory. Mechanism and Machine Theory, 2006, 41, 1048-1061.	4.5	88
31	High throughput extraction of plasma using a secondary flow-aided inertial microfluidic device. RSC Advances, 2014, 4, 33149.	3.6	88
32	A novel magnetorheological elastomer isolator with negative changing stiffness for vibration reduction. Smart Materials and Structures, 2014, 23, 105023.	3.5	88
33	The measurement uncertainties in the laser interferometry-based sensing and tracking technique. Measurement: Journal of the International Measurement Confederation, 2002, 32, 135-150.	5.0	85
34	Trajectory generation for open-contoured structures in robotic fibre placement. Robotics and Computer-Integrated Manufacturing, 2007, 23, 380-394.	9.9	84
35	Conducting polymer microactuators operating in air. Journal of Micromechanics and Microengineering, 2009, 19, 025017.	2.6	84
36	Softer is Harder: What Differentiates Soft Robotics from Hard Robotics?. MRS Advances, 2018, 3, 1557-1568.	0.9	84

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37	Fabrication process of open surfaces by robotic fibre placement. Robotics and Computer-Integrated Manufacturing, 2004, 20, 17-28.	9.9	82
38	Ultra-stretchable MWCNTâ€“Ecoflex piezoresistive sensors for human motion detection applications. Composites Science and Technology, 2019, 173, 118-124.	7.8	80
39	Gold-loaded nanoporous superparamagnetic nanocubes for catalytic signal amplification in detecting miRNA. Chemical Communications, 2017, 53, 8231-8234.	4.1	79
40	Robust Adaptive Control of Conjugated Polymer Actuators. IEEE Transactions on Control Systems Technology, 2008, 16, 600-612.	5.2	77
41	A Compact Variable Stiffness and Damping Shock Absorber for Vehicle Suspension. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2621-2629.	5.8	77
42	A Review of 3Dâ€Printable Soft Pneumatic Actuators and Sensors: Research Challenges and Opportunities. Advanced Intelligent Systems, 2021, 3, 2000223.	6.1	75
43	Isolating plasma from blood using a dielectrophoresis-active hydrophoretic device. Lab on A Chip, 2014, 14, 2993.	6.0	73
44	Response Characterization of Electroactive Polymers as Mechanical Sensors. IEEE/ASME Transactions on Mechatronics, 2008, 13, 187-196.	5.8	70
45	Finding NEMO (novel electromaterial muscle oscillator): a polypyrrole powered robotic fish with real-time wireless speed and directional control. Smart Materials and Structures, 2009, 18, 095009.	3.5	70
46	3D Printable Linear Soft Vacuum Actuators: Their Modeling, Performance Quantification and Application in Soft Robotic Systems. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2118-2129.	5.8	70
47	A finite element model for bending behaviour of conducting polymer electromechanical actuators. Sensors and Actuators A: Physical, 2006, 130-131, 1-11.	4.1	65
48	Synthesis and performance evaluation of thin film PPy-PVDF multilayer electroactive polymer actuators. Sensors and Actuators A: Physical, 2011, 165, 321-328.	4.1	65
49	A Structural Optimisation Method for a Soft Pneumatic Actuator. Robotics, 2018, 7, 24.	3.5	65
50	The development of an adaptive tuned magnetorheological elastomer absorber working in squeeze mode. Smart Materials and Structures, 2014, 23, 075009.	3.5	64
51	Ionic electroactive polymer artificial muscles in space applications. Scientific Reports, 2014, 4, 6913.	3.3	64
52	An adaptive tuned vibration absorber based on multilayered MR elastomers. Smart Materials and Structures, 2015, 24, 045045.	3.5	64
53	A starfish robot based on soft and smart modular structure (SMS) actuated by SMA wires. Bioinspiration and Biomimetics, 2016, 11, 056012.	2.9	64
54	An effective modelling approach to estimate nonlinear bending behaviour of cantilever type conducting polymer actuators. Sensors and Actuators B: Chemical, 2009, 141, 284-292.	7.8	63

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55	Real-time control of inertial focusing in microfluidics using dielectrophoresis (DEP). RSC Advances, 2014, 4, 62076-62085.	3.6	62
56	A practical 3D-printed soft robotic prosthetic hand with multi-articulating capabilities. PLoS ONE, 2020, 15, e0232766.	2.5	62
57	Electromechanical coupling in polypyrrole sensors and actuators. Sensors and Actuators A: Physical, 2010, 161, 127-133.	4.1	61
58	Experimental investigation of the vibration characteristics of a magnetorheological elastomer sandwich beam under non-homogeneous small magnetic fields. Smart Materials and Structures, 2011, 20, 127001.	3.5	60
59	Electrochemical biosensing strategies for DNA methylation analysis. Biosensors and Bioelectronics, 2017, 94, 63-73.	10.1	60
60	Prediction of geometric errors of robot manipulators with Particle Swarm Optimisation method. Robotics and Autonomous Systems, 2006, 54, 956-966.	5.1	59
61	Development of an isolator working with magnetorheological elastomers and fluids. Mechanical Systems and Signal Processing, 2017, 83, 371-384.	8.0	59
62	Optimum synthesis of planar parallel manipulators based on kinematic isotropy and force balancing. Robotica, 2004, 22, 97-108.	1.9	57
63	A scalable model for trilayer conjugated polymer actuators and its experimental validation. Materials Science and Engineering C, 2008, 28, 421-428.	7.3	57
64	Inertial focusing in a straight channel with asymmetrical expansionâ€“contraction cavity arrays using two secondary flows. Journal of Micromechanics and Microengineering, 2013, 23, 085023.	2.6	57
65	Optimum dynamic balancing of planar parallel manipulators based on sensitivity analysis. Mechanism and Machine Theory, 2006, 41, 1520-1532.	4.5	55
66	Inversion-Based Feedforward Control of Polypyrrole Trilayer Bender Actuators. IEEE/ASME Transactions on Mechatronics, 2010, 15, 149-156.	5.8	55
67	Review on Design and Control Aspects of Robotic Shoulder Rehabilitation Orthoses. IEEE Transactions on Human-Machine Systems, 2017, 47, 1134-1145.	3.5	55
68	Environmentally Friendly and Biodegradable Ultrasensitive Piezoresistive Sensors for Wearable Electronics Applications. ACS Applied Materials & Interfaces, 2020, 12, 8761-8772.	8.0	55
69	Evaluation of length-scale effects for mechanical behaviour of micro- and nanocantilevers: I. Experimental determination of length-scale factors. Journal Physics D: Applied Physics, 2011, 44, 335501.	2.8	54
70	A methodology towards geometry optimization of high performance polypyrrole (PPy) actuators. Smart Materials and Structures, 2006, 15, 243-252.	3.5	53
71	Development of a novel variable stiffness and damping magnetorheological fluid damper. Smart Materials and Structures, 2015, 24, 085021.	3.5	53
72	Modeling and Experimental Characterization of Propulsion of a Spiral-Type Microrobot for Medical Use in Gastrointestinal Tract. IEEE Transactions on Biomedical Engineering, 2013, 60, 1751-1759.	4.2	52

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73	Finite Element Modeling in the Design Process of 3D Printed Pneumatic Soft Actuators and Sensors. Robotics, 2020, 9, 52.	3.5	52
74	Horizontal vibration reduction of a seat suspension using negative changing stiffness magnetorheological elastomer isolators. International Journal of Vehicle Design, 2015, 68, 104.	0.3	51
75	Feedback control of tri-layer polymer actuators to improve their positioning ability and speed of response. Sensors and Actuators A: Physical, 2008, 144, 176-184.	4.1	50
76	Continuous plasma extraction under viscoelastic fluid in a straight channel with asymmetrical expansionâ€“contraction cavity arrays. Lab on A Chip, 2016, 16, 3919-3928.	6.0	50
77	Establishment of a biomimetic device based on tri-layer polymer actuatorsâ€”propulsion fins. Bioinspiration and Biomimetics, 2007, 2, S18-S30.	2.9	49
78	Validation of Resonant Frequency Model for Polypyrrole Trilayer Actuators. IEEE/ASME Transactions on Mechatronics, 2008, 13, 401-409.	5.8	49
79	Dean-flow-coupled elasto-inertial three-dimensional particle focusing under viscoelastic flow in a straight channel with asymmetrical expansionâ€“contraction cavity arrays. Biomicrofluidics, 2015, 9, 044108.	2.4	49
80	An inverse position analysis of five-bar planar parallel manipulators. Robotica, 2002, 20, 195-201.	1.9	48
81	Modelling and identifying the parameters of a magneto-rheological damper with a force-lag phenomenon. Applied Mathematical Modelling, 2014, 38, 3763-3773.	4.2	48
82	Subcritical parametric dynamics of microbeams. International Journal of Engineering Science, 2015, 95, 36-48.	5.0	48
83	A simple and cost-effective method for fabrication of integrated electronic-microfluidic devices using a laser-patterned PDMS layer. Microfluidics and Nanofluidics, 2012, 12, 751-760.	2.2	47
84	Evaluation of length-scale effects for mechanical behaviour of micro- and nanocantilevers: II. Experimental verification of deflection models using atomic force microscopy. Journal Physics D: Applied Physics, 2011, 44, 335502.	2.8	46
85	On-chip high-throughput manipulation of particles in a dielectrophoresis-active hydrophoretic focuser. Scientific Reports, 2014, 4, 5060.	3.3	46
86	Development and performance evaluation of large-scale auxetic protective systems for localised impulsive loads. International Journal of Protective Structures, 2019, 10, 390-417.	2.3	46
87	Fabrication and characterisation of highly stretchable elastomeric strain sensors for prosthetic hand applications. Sensors and Actuators A: Physical, 2016, 247, 514-521.	4.1	44
88	Optimal area covering using genetic algorithms. , 2007, , .		43
89	Soft Pneumatic Sensing Chambers for Generic and Interactive Humanâ€“Machine Interfaces. Advanced Intelligent Systems, 2019, 1, 1900002.	6.1	43
90	Determination of singularity contours for five-bar planar parallel manipulators. Robotica, 2000, 18, 569-575.	1.9	41

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91	Patterning and electrical interfacing of individually controllable conducting polymer microactuators. Sensors and Actuators B: Chemical, 2013, 183, 283-289.	7.8	41
92	Improved concentration and separation of particles in a 3D dielectrophoretic chip integrating focusing, aligning and trapping. Microfluidics and Nanofluidics, 2013, 14, 527-539.	2.2	41
93	Continuous manipulation and separation of particles using combined obstacleâ€•and curvatureâ€induced direct current dielectrophoresis. Electrophoresis, 2013, 34, 952-960.	2.4	40
94	Performance evaluation and comparison of magnetorheological elastomer absorbers working in shear and squeeze modes. Journal of Intelligent Material Systems and Structures, 2015, 26, 1757-1763.	2.5	40
95	Study of shear-stiffened elastomers. Smart Materials and Structures, 2012, 21, 125009.	3.5	39
96	Continuous particle focusing in a waved microchannel using negative dc dielectrophoresis. Journal of Micromechanics and Microengineering, 2012, 22, 095001.	2.6	39
97	Analysis of Magnetic Interaction in Remotely Controlled Magnetic Devices and its Application to a Capsule Robot for Drug Delivery. IEEE/ASME Transactions on Mechatronics, 2018, 23, 298-310.	5.8	38
98	A Novel Monolithic Soft Robotic Thumb for an Anthropomorphic Prosthetic Hand. IEEE Robotics and Automation Letters, 2019, 4, 602-609.	5.1	38
99	The kinematics of modular spatial hyper-redundant manipulators formed from RPS-type limbs. Robotics and Autonomous Systems, 2011, 59, 12-21.	5.1	36
100	Modelling trilayer conjugated polymer actuators for their sensorless position control. Sensors and Actuators A: Physical, 2012, 185, 82-91.	4.1	36
101	Modeling and Experimental Investigation of Rotational Resistance of a Spiral-Type Robotic Capsule Inside a Real Intestine. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1555-1562.	5.8	36
102	Investigation of particle lateral migration in sampleâ€sheath flow of viscoelastic fluid and Newtonian fluid. Electrophoresis, 2016, 37, 2147-2155.	2.4	36
103	Large area and ultra-thin compliant strain sensors for prosthetic devices. Sensors and Actuators A: Physical, 2017, 266, 56-64.	4.1	36
104	Intelligent Control of Electroactive Polymer Actuators Based on Fuzzy and Neurofuzzy Methodologies. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1951-1962.	5.8	34
105	Development of a linear damper working with magnetorheological shear thickening fluids. Journal of Intelligent Material Systems and Structures, 2015, 26, 1811-1817.	2.5	34
106	A hybrid dielectrophoretic and hydrophoretic microchip for particle sorting using integrated prefocusing and sorting steps. Electrophoresis, 2015, 36, 284-291.	2.4	34
107	An Adaptive Neuro Fuzzy Hybrid Control Strategy for a Semiactive Suspension with Magneto Rheological Damper. Advances in Mechanical Engineering, 2014, 6, 487312.	1.6	33
108	Fabrication and characterization of a magnetic micro-actuator based on deformable Fe-doped PDMS artificial cilium using 3D printing. Smart Materials and Structures, 2015, 24, 035015.	3.5	33

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109	A Novel Magnetic Anchoring System for Wireless Capsule Endoscopes Operating Within the Gastrointestinal Tract. IEEE/ASME Transactions on Mechatronics, 2019, 24, 1106-1116.	5.8	32
110	Design, Modeling, and Control of a 3D Printed Monolithic Soft Robotic Finger With Embedded Pneumatic Sensing Chambers. IEEE/ASME Transactions on Mechatronics, 2021, 26, 876-887.	5.8	32
111	A 3D printed monolithic soft gripper with adjustable stiffness. , 2017, , .		31
112	Enhancement of actuation ability of ionic-type conducting polymer actuators using metal ion implantation. Sensors and Actuators B: Chemical, 2011, 157, 72-84.	7.8	30
113	An Effective Localization Method for Robotic Endoscopic Capsules Using Multiple Positron Emission Markers. IEEE Transactions on Robotics, 2014, 30, 1174-1186.	10.3	30
114	Effect of flexure hinge type on a 3D printed fully compliant prosthetic finger. , 2015, , .		29
115	Effect of electrolyte storage layer on performance of PPy-PVDF-PPy microactuators. Sensors and Actuators B: Chemical, 2011, 155, 810-816.	7.8	27
116	Pushing the Limits for Microactuators Based on Electroactive Polymers. Journal of Microelectromechanical Systems, 2012, 21, 574-585.	2.5	27
117	An effective methodology to solve inverse kinematics of electroactive polymer actuators modelled as active and soft robotic structures. Mechanism and Machine Theory, 2013, 67, 94-110.	4.5	27
118	Bottom-up microfabrication process for individually controlled conjugated polymer actuators. Sensors and Actuators B: Chemical, 2016, 230, 818-824.	7.8	27
119	Controlled delivery of drugs adsorbed onto porous Fe 3 O 4 structures by application of AC/DC magnetic fields. Microporous and Mesoporous Materials, 2016, 226, 243-250.	4.4	27
120	High-throughput sheathless and three-dimensional microparticle focusing using a microchannel with arc-shaped groove arrays. Scientific Reports, 2017, 7, 41153.	3.3	27
121	Fully 3D Printed Monolithic Soft Gripper with High Conformal Grasping Capability. , 2019, , .		27
122	Engineering-Based Design Methodology for Embedding Ethics in Autonomous Robots. Proceedings of the IEEE, 2019, 107, 582-599.	21.3	27
123	Residual swing/vibration reduction using a hybrid input shaping method. Mechanism and Machine Theory, 2001, 36, 311-326.	4.5	26
124	Evaluation of thrust force generated for a robotic fish propelled with polypyrrole actuators. Polymer International, 2010, 59, 357-364.	3.1	26
125	An integrated dielectrophoresis-active hydrophoretic microchip for continuous particle filtration and separation. Journal of Micromechanics and Microengineering, 2015, 25, 084010.	2.6	26
126	Highly Sensitive Soft Foam Sensors to Empower Robotic Systems. Advanced Materials Technologies, 2019, 4, 1900423.	5.8	26

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127	Guest Editorial Introduction to the Focused Section on Electroactive Polymer Mechatronics. IEEE/ASME Transactions on Mechatronics, 2011, 16, 1-8.	5.8	25
128	Size-dependent electro-elasto-mechanics of MEMS with initially curved deformable electrodes. International Journal of Mechanical Sciences, 2015, 103, 247-264.	6.7	25
129	Experimental nonlinear dynamics of a geometrically imperfect magneto-rheological elastomer sandwich beam. Composite Structures, 2016, 138, 381-390.	5.8	25
130	3D printing of a thin-wall soft and monolithic gripper using fused filament fabrication. , 2017, , .		25
131	Kinematics and stiffness analyses of a flexure-jointed planar micromanipulation system for a decoupled compliant motion. , 0, , .		24
132	Normal stiffness calibration of microfabricated tri-layer conducting polymer actuators. Smart Materials and Structures, 2009, 18, 065013.	3.5	24
133	A Compliant Translational Mechanism Based on Dielectric Elastomer Actuators. Journal of Mechanical Design, Transactions of the ASME, 2014, 136, .	2.9	24
134	A Soft Mechatronic Microstage Mechanism Based on Electroactive Polymer Actuators. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1467-1478.	5.8	24
135	A Cellular Neural Network Methodology for Deformable Object Simulation. IEEE Transactions on Information Technology in Biomedicine, 2006, 10, 749-762.	3.2	23
136	Creep and recovery behaviors of magnetorheological elastomers. Frontiers of Mechanical Engineering in China, 2010, 5, 341-346.	0.4	23
137	Wireless aquatic navigator for detection and analysis (WANDA). Sensors and Actuators B: Chemical, 2010, 150, 425-435.	7.8	23
138	A Multistable Linear Actuation Mechanism Based on Artificial Muscles. Journal of Mechanical Design, Transactions of the ASME, 2010, 132, .	2.9	23
139	Development of an MRE adaptive tuned vibration absorber with self-sensing capability. Smart Materials and Structures, 2015, 24, 095012.	3.5	23
140	Design and development of a parametrically excited nonlinear energy harvester. Energy Conversion and Management, 2016, 126, 247-255.	9.2	23
141	Reusable Flexible Concentric Electrodes Coated With a Conductive Graphene Ink for Electrotactile Stimulation. Frontiers in Bioengineering and Biotechnology, 2018, 6, 179.	4.1	23
142	Loci of singular configurations of a 3-DOF spherical parallel manipulator. Robotics and Autonomous Systems, 2004, 48, 77-91.	5.1	22
143	Artificial muscles with adjustable stiffness. Smart Materials and Structures, 2010, 19, 045004.	3.5	22
144	Study of PDMS based magnetorheological elastomers. Journal of Physics: Conference Series, 2013, 412, 012038.	0.4	22

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145	Electro-mechanical modelling and identification of electroactive polymer actuators as smart robotic manipulators. Mechatronics, 2014, 24, 241-251.	3.3	22
146	A magnetically actuated anchoring system for a wireless endoscopic capsule. Biomedical Microdevices, 2016, 18, 102.	2.8	22
147	Design of an enhanced wideband energy harvester using a parametrically excited array. Journal of Sound and Vibration, 2017, 410, 416-428.	3.9	22
148	A 3D Printed Modular Soft Gripper Integrated With Metamaterials for Conformal Grasping. Frontiers in Robotics and AI, 2021, 8, 799230.	3.2	22
149	Fast bender actuators for fish-like aquatic robots. , 2008, , .		21
150	Towards fully optimized conducting polymer bending sensors: the effect of geometry. Smart Materials and Structures, 2009, 18, 085007.	3.5	21
151	Threeâ€dimensional nanofabrication of polystyrene by focused ion beam. Journal of Microscopy, 2012, 248, 129-139.	1.8	21
152	Nonlinear dynamics of a parametrically excited beam with a central magneto-rheological elastomer patch: An experimental investigation. International Journal of Mechanical Sciences, 2016, 106, 157-167.	6.7	21
153	Flow rate-insensitive microparticle separation and filtration using a microchannel with arc-shaped groove arrays. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	21
154	Redox level-dependent impedance model for conjugated polymer actuators. Sensors and Actuators B: Chemical, 2008, 132, 182-190.	7.8	20
155	Development of a nonlinear adaptive absorber based on magnetorheological elastomer. Journal of Intelligent Material Systems and Structures, 2018, 29, 194-204.	2.5	20
156	A survey on what Australians with upper limb difference want in a prosthesis: justification for using soft robotics and additive manufacturing for customized prosthetic hands. Disability and Rehabilitation: Assistive Technology, 2020, 15, 342-349.	2.2	20
157	Force Control of a 3D Printed Soft Gripper with Built-In Pneumatic Touch Sensing Chambers. Soft Robotics, 2022, 9, 970-980.	8.0	20
158	Modeling and inverse feedforward control for conducting polymer actuators with hysteresis. Smart Materials and Structures, 2014, 23, 025015.	3.5	19
159	Tunable Particle Focusing in a Straight Channel with Symmetric Semicircle Obstacle Arrays Using Electrophoresis-Modified Inertial Effects. Micromachines, 2016, 7, 195.	2.9	19
160	An innovative MRE absorber with double natural frequencies for wide frequency bandwidth vibration absorption. Smart Materials and Structures, 2016, 25, 055035.	3.5	19
161	A 3D Printed Soft Robotic Hand With Embedded Soft Sensors for Direct Transition Between Hand Gestures and Improved Grasping Quality and Diversity. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 550-558.	4.9	19
162	An autowave based methodology for deformable object simulation. CAD Computer Aided Design, 2006, 38, 740-754.	2.7	18

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163	Enhanced Localization of Robotic Capsule Endoscopes Using Positron Emission Markers and Rigid-Body Transformation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1270-1284.	9.3	18
164	On preshaped reference inputs to reduce swing of suspended objects transported with robot manipulators. Mechatronics, 2000, 10, 609-626.	3.3	17
165	Sliding Mode Control of a Piezoelectric Actuator with Neural Network Compensating Rate-Dependent Hysteresis. , 0, , .		17
166	Towards soft robotic devices for site-specific drug delivery. Expert Review of Medical Devices, 2015, 12, 703-715.	2.8	17
167	Size Optimization of a Magnetic System for Drug Delivery With Capsule Robots. IEEE Transactions on Magnetics, 2016, 52, 1-11.	2.1	17
168	3D Printed Helical Soft Pneumatic Actuators. , 2018, , .		17
169	Conjugated Polymer Actuators: Fundamentals. , 0, , 193-227.		16
170	An inverted micro-mixer based on a magnetically-actuated cilium made of Fe doped PDMS. Smart Materials and Structures, 2016, 25, 095049.	3.5	16
171	Development of a novel magnetophoresis-assisted hydrophoresis microdevice for rapid particle ordering. Biomedical Microdevices, 2016, 18, 54.	2.8	16
172	A Parametrically Broadband Nonlinear Energy Harvester. Journal of Energy Resources Technology, Transactions of the ASME, 2017, 139, .	2.3	16
173	System and process development for coaxial extrusion in fused deposition modelling. Rapid Prototyping Journal, 2017, 23, 543-550.	3.2	16
174	Multifunctional skin-compliant wearable sensors for monitoring human condition applications. Applied Materials Today, 2022, 26, 101361.	4.3	16
175	Soft tissue modelling through autowaves for surgery simulation. Medical and Biological Engineering and Computing, 2006, 44, 805-821.	2.8	15
176	Polypyrrole stretchable actuators. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 57-63.	2.1	15
177	Concept and simulation study of a novel localization method for robotic endoscopic capsules using multiple positron emission markers. Medical Physics, 2014, 41, 072501.	3.0	15
178	Tactile Feedback in Closed-Loop Control of Myoelectric Hand Grasping: Conveying Information of Multiple Sensors Simultaneously via a Single Feedback Channel. Frontiers in Neuroscience, 2020, 14, 348.	2.8	15
179	Non-Invasive Human-Machine Interface (HMI) Systems With Hybrid On-Body Sensors for Controlling Upper-Limb Prosthesis: A Review. IEEE Sensors Journal, 2022, 22, 10292-10307.	4.7	15
180	A systematic approach to develop a force control system for robotic drilling. Industrial Robot, 1999, 26, 389-397.	2.1	14

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181	Direct Kinematics and Analytical Solution to 3RRR Parallel Planar Mechanisms. , 2006, , .		14
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