

Hongliang Ren

List of Publications by Citations

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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.

367
papers

5,419
citations

40
h-index

57
g-index

418
ext. papers

6,985
ext. citations

3.8
avg, IF

6.68
L-index

#	Paper	IF	Citations
367	Finite Time Fault Tolerant Control for Robot Manipulators Using Time Delay Estimation and Continuous Nonsingular Fast Terminal Sliding Mode Control. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 1681-1693	10.2	207
366	Shape Sensing Techniques for Continuum Robots in Minimally Invasive Surgery: A Survey. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 1665-1678	5	150
365	Investigation of Attitude Tracking Using an Integrated Inertial and Magnetic Navigation System for Hand-Held Surgical Instruments. <i>IEEE/ASME Transactions on Mechatronics</i> , 2012 , 17, 210-217	5.5	121
364	Hydrogel Actuators and Sensors for Biomedical Soft Robots: Brief Overview with Impending Challenges. <i>Biomimetics</i> , 2018 , 3,	3.7	116
363	Target recognition in synthetic aperture radar images via non-negative matrix factorisation. <i>IET Radar, Sonar and Navigation</i> , 2015 , 9, 1376-1385	1.4	104
362	Kinematic comparison of surgical tendon-driven manipulators and concentric tube manipulators. <i>Mechanism and Machine Theory</i> , 2017 , 107, 148-165	4	95
361	Fully organic compliant dry electrodes self-adhesive to skin for long-term motion-robust epidermal biopotential monitoring. <i>Nature Communications</i> , 2020 , 11, 4683	17.4	85
360	ISLES 2016 and 2017-Benchmarking Ischemic Stroke Lesion Outcome Prediction Based on Multispectral MRI. <i>Frontiers in Neurology</i> , 2018 , 9, 679	4.1	77
359	A novel constrained wire-driven flexible mechanism and its kinematic analysis. <i>Mechanism and Machine Theory</i> , 2016 , 95, 59-75	4	74
358	Self-Correction of Commutation Point for High-Speed Sensorless BLDC Motor With Low Inductance and Nonideal Back EMF. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 642-651	7.2	64
357	Electromagnetic Positioning for Tip Tracking and Shape Sensing of Flexible Robots. <i>IEEE Sensors Journal</i> , 2015 , 15, 4565-4575	4	63
356	Stretchable Graphene Pressure Sensors with Shar-Pei-like Hierarchical Wrinkles for Collision-Aware Surgical Robotics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10226-10236	9.5	62
355	Fabricating biomedical origami: a state-of-the-art review. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017 , 12, 2023-2032	3.9	61
354	A Review of Printable Flexible and Stretchable Tactile Sensors. <i>Research</i> , 2019 , 2019, 3018568	7.8	61
353	A Miniature Soft Robotic Manipulator Based on Novel Fabrication Methods. <i>IEEE Robotics and Automation Letters</i> , 2016 , 1, 617-623	4.2	60
352	Topology Optimized Design, Fabrication, and Characterization of a Soft Cable-Driven Gripper. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 2463-2470	4.2	59
351	Development of a Multi-Channel Concentric Tube Robotic System With Active Vision for Transnasal Nasopharyngeal Carcinoma Procedures. <i>IEEE Robotics and Automation Letters</i> , 2016 , 1, 1172-1178	4.2	59

350	Multisensor data fusion in an integrated tracking system for endoscopic surgery. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012 , 16, 106-11		59
349	6-D Magnetic Localization and Orientation Method for an Annular Magnet Based on a Closed-Form Analytical Model. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-11	2	58
348	Game-Theoretic Modeling of Joint Topology Control and Power Scheduling for Wireless Heterogeneous Sensor Networks. <i>IEEE Transactions on Automation Science and Engineering</i> , 2009 , 6, 610-625	4.9	58
347	Hybrid Tele-Manipulation System Using a Sensorized 3-D-Printed Soft Robotic Gripper and a Soft Fabric-Based Haptic Glove. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 880-887	4.2	54
346	Shape reconstruction for wire-driven flexible robots based on B�zier curve and electromagnetic positioning. <i>Mechatronics</i> , 2015 , 29, 28-35	3	54
345	A Minimal POE-Based Model for Robotic Kinematic Calibration With Only Position Measurements. <i>IEEE Transactions on Automation Science and Engineering</i> , 2015 , 12, 758-763	4.9	54
344	Computer-assisted transoral surgery with flexible robotics and navigation technologies: a review of recent progress and research challenges. <i>Critical Reviews in Biomedical Engineering</i> , 2013 , 41, 365-91	1.1	54
343	Robust Fault-Tolerant Control for a Class of Second-Order Nonlinear Systems Using an Adaptive Third-Order Sliding Mode Control. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016 , 1-8	7.3	52
342	Intensity-Based Visual Servoing for Instrument and Tissue Tracking in 3D Ultrasound Volumes. <i>IEEE Transactions on Automation Science and Engineering</i> , 2015 , 12, 367-371	4.9	50
341	Real-Time Shape Estimation for Wire-Driven Flexible Robots With Multiple Bending Sections Based on Quadratic B�zier Curves. <i>IEEE Sensors Journal</i> , 2015 , 15, 6326-6334	4	50
340	Passive markers for tracking surgical instruments in real-time 3-D ultrasound imaging. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 563-75	11.7	49
339	Power Adaptive Localization Algorithm for Wireless Sensor Networks Using Particle Filter. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 2498-2508	6.8	48
338	Type-2 Fuzzy Modeling and Control for Bilateral Teleoperation System With Dynamic Uncertainties and Time-Varying Delays. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 447-459	8.9	47
337	Radiation Characteristics of Ingestible Wireless Devices in Human Intestine Following Radio Frequency Exposure at 430, 800, 1200, and 2400 MHz. <i>IEEE Transactions on Antennas and Propagation</i> , 2009 , 57, 2418-2428	4.9	46
336	Wireless TiCT MXene Strain Sensor with Ultrahigh Sensitivity and Designated Working Windows for Soft Exoskeletons. <i>ACS Nano</i> , 2020 , 14, 11860-11875	16.7	46
335	Optimizing Double-Network Hydrogel for Biomedical Soft Robots. <i>Soft Robotics</i> , 2017 , 4, 191-201	9.2	44
334	Overall survival prediction in glioblastoma multiforme patients from volumetric, shape and texture features using machine learning. <i>Surgical Oncology</i> , 2018 , 27, 709-714	2.5	44
333	Finding the Kinematic Base Frame of a Robot by Hand-Eye Calibration Using 3D Position Data. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017 , 14, 314-324	4.9	42

332	A fuzzy rough number-based AHP-TOPSIS for design concept evaluation under uncertain environments. <i>Applied Soft Computing Journal</i> , 2020 , 91, 106228	7.5	42
331	Active Balancing Control of AMB-Rotor Systems Using a Phase-Shift Notch Filter Connected in Parallel Mode. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 3777-3785	8.9	42
330	No-reference blur assessment based on edge modeling. <i>Journal of Visual Communication and Image Representation</i> , 2015 , 29, 1-7	2.7	42
329	Real-Time Instrument Segmentation in Robotic Surgery Using Auxiliary Supervised Deep Adversarial Learning. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 2188-2195	4.2	41
328	. <i>IEEE Transactions on Robotics</i> , 2016 , 32, 413-428	6.5	40
327	Development of a compact continuum tubular robotic system for nasopharyngeal biopsy. <i>Medical and Biological Engineering and Computing</i> , 2017 , 55, 403-417	3.1	39
326	Multifunctional metallic backbones for origami robotics with strain sensing and wireless communication capabilities. <i>Science Robotics</i> , 2019 , 4,	18.6	39
325	An Efficient Magnetic Tracking Method Using Uniaxial Sensing Coil. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-7	2	39
324	A High-Sensitivity Tactile Sensor Array Based on Fiber Bragg Grating Sensing for Tissue Palpation in Minimally Invasive Surgery. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 2306-2315	5.5	38
323	Motion Planning Based on Learning From Demonstration for Multiple-Segment Flexible Soft Robots Actuated by Electroactive Polymers. <i>IEEE Robotics and Automation Letters</i> , 2016 , 1, 391-398	4.2	37
322	A Novel 4-DOF Hybrid Magnetic Bearing for DGMSCMG. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 2196-2204	8.9	37
321	Three-Dimensional Catheter Distal Force Sensing for Cardiac Ablation Based on Fiber Bragg Grating. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 2316-2327	5.5	35
320	Biogeography-based particle swarm optimization with fuzzy elitism and its applications to constrained engineering problems. <i>Engineering Optimization</i> , 2014 , 46, 1465-1484	2	35
319	A Novel Fiber Bragg Grating Displacement Sensor With a Sub-Micrometer Resolution. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 1199-1202	2.2	34
318	A bioinspired analogous nerve towards artificial intelligence. <i>Nature Communications</i> , 2020 , 11, 268	17.4	34
317	Evolution of robotic systems for transoral head and neck surgery. <i>Oral Oncology</i> , 2018 , 87, 82-88	4.4	34
316	Single-Motor Controlled Tendon-Driven Peristaltic Soft Origami Robot. <i>Journal of Mechanisms and Robotics</i> , 2018 , 10,	2.2	34
315	Deep Reinforcement Learning for Soft, Flexible Robots: Brief Review with Impending Challenges. <i>Robotics</i> , 2019 , 8, 4	2.8	33

314	Design of a Novel Flexible Endoscope/Cardioscope. <i>Journal of Mechanisms and Robotics</i> , 2016 , 8, 051014	2.2	33
313	Flexible Robot With Variable Stiffness in Transoral Surgery. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 1-10	5.5	32
312	ROBOTICS IN NATURAL ORIFICE TRANSLUMINAL ENDOSCOPIC SURGERY. <i>Journal of Mechanics in Medicine and Biology</i> , 2013 , 13, 1350044	0.7	31
311	Fault-Tolerant Inverter for High-Speed Low-Inductance BLDC Drives in Aerospace Applications. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 2452-2463	7.2	30
310	Design, characterization and applications of a novel soft actuator driven by flexible shafts. <i>Mechanism and Machine Theory</i> , 2018 , 122, 197-218	4	30
309	A Robotic System With Multichannel Flexible Parallel Manipulators for Single Port Access Surgery. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 1678-1687	11.9	29
308	Treatment planning and image guidance for radiofrequency ablation of large tumors. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 920-8	7.2	29
307	Crumpling and Unfolding of Montmorillonite Hybrid Nanocoatings as Stretchable Flame-Retardant Skin. <i>Small</i> , 2018 , 14, e1800596	11	28
306	A Diaphragm Type Fiber Bragg Grating Vibration Sensor Based on Transverse Property of Optical Fiber With Temperature Compensation. <i>IEEE Sensors Journal</i> , 2016 , 1-1	4	28
305	A High-Sensitivity Fiber Bragg Grating Displacement Sensor Based on Transverse Property of a Tensioned Optical Fiber Configuration and Its Dynamic Performance Improvement. <i>IEEE Sensors Journal</i> , 2017 , 17, 5840-5848	4	27
304	A Novel Tele-Operated Flexible Robot Targeted for Minimally Invasive Robotic Surgery. <i>Engineering</i> , 2015 , 1, 073-078	9.7	27
303	Advances in Haptics, Tactile Sensing, and Manipulation for Robot-Assisted Minimally Invasive Surgery, Noninvasive Surgery, and Diagnosis. <i>Journal of Robotics</i> , 2012 , 2012, 1-14	1.5	27
302	A Flexible Fabrication Approach Toward the Shape Engineering of Microscale Soft Pneumatic Actuators. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 165-170	4.2	26
301	Statics modeling of an underactuated wire-driven flexible robotic arm		26
300	Sensor Fusion of Leap Motion Controller and Flex Sensors Using Kalman Filter for Human Finger Tracking. <i>IEEE Sensors Journal</i> , 2018 , 18, 2042-2049	4	25
299	Fault Diagnosis in Image-Based Visual Servoing With Eye-in-Hand Configurations Using Kalman Filter. <i>IEEE Transactions on Industrial Informatics</i> , 2016 , 12, 1998-2007	11.9	25
298	Data-driven methods towards learning the highly nonlinear inverse kinematics of tendon-driven surgical manipulators. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2017 , 13, e1774	2.9	25
297	Tubular Enhanced Geodesic Active Contours for Continuum Robot Detection using 3D Ultrasound. <i>IEEE International Conference on Robotics and Automation: ICRA: [proceedings]</i> , 2012 ,	2.2	25

- 296 Graphene Oxide-Enabled Synthesis of Metal Oxide Origamis for Soft Robotics. *ACS Nano*, **2019**, 13, 5410-5420 24
- 295 Evolution and Current Applications of Robot-Assisted Fracture Reduction: A Comprehensive Review. *Annals of Biomedical Engineering*, **2020**, 48, 203-224 4.7 24
- 294 A Cable-Driven Flexible Robotic Grasper With Lego-Like Modular and Reconfigurable Joints. *IEEE/ASME Transactions on Mechatronics*, **2017**, 22, 2757-2767 5.5 23
- 293 Hydrogel-matrix encapsulated Nitinol actuation with self-cooling mechanism.. *RSC Advances*, **2019**, 9, 34244-34255 3.7 23
- 292 Disposable FBG-Based Tridirectional Force/Torque Sensor for Aspiration Instruments in Neurosurgery. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 3236-3247 8.9 23
- 291 A High-Resolution Triaxial Catheter Tip Force Sensor With Miniature Flexure and Suspended Optical Fibers. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 5101-5111 8.9 23
- 290 Detection of Curved Robots using 3D Ultrasound. *IEEE International Conference on Intelligent Robots and Systems*, **2011**, 2011, 2083-2089 0.6 22
- 289 MR-Conditional SMA-Based Origami Joint. *IEEE/ASME Transactions on Mechatronics*, **2019**, 24, 883-888 5.5 22
- 288 Applications of Wireless Power Transfer in Medicine: State-of-the-Art Reviews. *Annals of Biomedical Engineering*, **2019**, 47, 22-38 4.7 22
- 287 A Compliant Transoral Surgical Robotic System Based on a Parallel Flexible Mechanism. *Annals of Biomedical Engineering*, **2019**, 47, 1329-1344 4.7 21
- 286 Tracking control design of interval type-2 polynomial-fuzzy-model-based systems with time-varying delay. *Engineering Applications of Artificial Intelligence*, **2018**, 75, 76-87 7.2 21
- 285 Coverage planning in computer-assisted ablation based on Genetic Algorithm. *Computers in Biology and Medicine*, **2014**, 49, 36-45 7 21
- 284 Multilateral Teleoperation With New Cooperative Structure Based on Reconfigurable Robots and Type-2 Fuzzy Logic. *IEEE Transactions on Cybernetics*, **2019**, 49, 2845-2859 10.2 21
- 283 Safety-Enhanced Motion Planning for Flexible Surgical Manipulator Using Neural Dynamics. *IEEE Transactions on Control Systems Technology*, **2017**, 25, 1711-1723 4.8 20
- 282 Depth Estimation of Hard Inclusions in Soft Tissue by Autonomous Robotic Palpation Using Deep Recurrent Neural Network. *IEEE Transactions on Automation Science and Engineering*, **2020**, 17, 1791-1799 4.9 20
- 281 Intraoperative magnetic resonance imaging-conditional robotic devices for therapy and diagnosis. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2014**, 228, 303-18 1.7 20
- 280 An image based targeting method to guide a tentacle-like curvilinear concentric tube robot **2014**, 20
- 279 Towards simultaneous coordinate calibrations for cooperative multiple robots **2014**, 20

278	Dynamic decoupling control of DGCMG gimbal system via state feedback linearization. <i>Mechatronics</i> , 2016 , 36, 127-135	3	20
277	A Millinewton Resolution Fiber Bragg Grating-Based Catheter Two-Dimensional Distal Force Sensor for Cardiac Catheterization. <i>IEEE Sensors Journal</i> , 2018 , 18, 1539-1546	4	19
276	SOFT ROBOTICS WITH COMPLIANCE AND ADAPTATION FOR BIOMEDICAL APPLICATIONS AND FORTHCOMING CHALLENGES. <i>International Journal of Robotics and Automation</i> , 2018 , 33,	1.3	19
275	. <i>IEEE Access</i> , 2019 , 7, 21539-21558	3.5	19
274	Ultrasound-Assisted Guidance With Force Cues for Intravascular Interventions. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019 , 16, 253-260	4.9	19
273	Kinematic Analysis and Motion Control of Wheeled Mobile Robots in Cylindrical Workspaces. <i>IEEE Transactions on Automation Science and Engineering</i> , 2016 , 13, 1207-1214	4.9	18
272	An Improved Magnetic Tracking Method Using Rotating Uniaxial Coil With Sparse Points and Closed Form Analytic Solution. <i>IEEE Sensors Journal</i> , 2014 , 14, 3585-3592	4	18
271	A Paired-Orientation Alignment Problem in a Hybrid Tracking System for Computer Assisted Surgery. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2011 , 63, 151-161	2.9	18
270	Towards Occlusion-Free Surgical Instrument Tracking: A Modular Monocular Approach and an Agile Calibration Method. <i>IEEE Transactions on Automation Science and Engineering</i> , 2015 , 12, 588-595	4.9	17
269	Simultaneous Robot-World, Sensor-Tip, and Kinematics Calibration of an Underactuated Robotic Hand With Soft Fingers. <i>IEEE Access</i> , 2018 , 6, 22705-22715	3.5	17
268	Origami-Layer-Jamming Deployable Surgical Retractor With Variable Stiffness and Tactile Sensing. <i>Journal of Mechanisms and Robotics</i> , 2020 , 12,	2.2	17
267	Fabrication and Comparative Study on Sensing Characteristics of Soft Textile-Layered Tactile Sensors 2017 , 1, 1-4		16
266	Biologically Inspired Approaches for Wireless Sensor Networks 2006 ,		16
265	Learning Where to Look While Tracking Instruments in Robot-Assisted Surgery. <i>Lecture Notes in Computer Science</i> , 2019 , 412-420	0.9	16
264	Bioinspired Soft Actuators for Eyeball Motions in Humanoid Robots. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 100-108	5.5	16
263	Statistical Model of Total Target Registration Error in Image-Guided Surgery. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020 , 17, 151-165	4.9	16
262	Electromagnetically Enhanced Soft and Flexible Bend Sensor: A Quantitative Analysis With Different Cores. <i>IEEE Sensors Journal</i> , 2018 , 18, 3580-3589	4	15
261	Three-Dimensional Intravascular Reconstruction Techniques Based on Intravascular Ultrasound: A Technical Review. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018 , 22, 806-817	7.2	15

260	Surgical Instrument Tracking By Multiple Monocular Modules and a Sensor Fusion Approach. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019 , 16, 629-639	4.9	15
259	Physiological information acquisition through wireless biomedical sensor networks		15
258	Origami-inspired bi-directional soft pneumatic actuator with integrated variable stiffness mechanism 2017 ,		14
257	Layer-Jamming Suction Grippers With Variable Stiffness. <i>Journal of Mechanisms and Robotics</i> , 2019 , 11,	2.2	14
256	Drift analysis of mutation operations for biogeography-based optimization. <i>Soft Computing</i> , 2015 , 19, 1881-1892	3.5	14
255	A Skull-Mounted Robot with a Compact and Lightweight Parallel Mechanism for Positioning in Minimally Invasive Neurosurgery. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 1465-1478	4.7	13
254	2017 ,		13
253	Motion planning of continuum tubular robots based on centerlines extracted from statistical atlas 2015 ,		13
252	A novel constrained tendon-driven serpentine manipulator 2015 ,		13
251	Brain Tumor Segmentation and Survival Prediction Using 3D Attention UNet. <i>Lecture Notes in Computer Science</i> , 2020 , 262-272	0.9	13
250	Glioma Prognosis: Segmentation of the Tumor and Survival Prediction Using Shape, Geometric and Clinical Information. <i>Lecture Notes in Computer Science</i> , 2019 , 142-153	0.9	12
249	Simultaneous Temperature Compensation and Synchronous Error Elimination for Axial Displacement Sensors Using an Auxiliary Probe. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 3179-3186	8.9	12
248	Marker-Based Surgical Instrument Tracking Using Dual Kinect Sensors. <i>IEEE Transactions on Automation Science and Engineering</i> , 2013 , 1-4	4.9	12
247	Hierarchical Recognition System for Target Recognition from Sparse Representations. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-6	1.1	12
246	Soft oral interventional rehabilitation robot based on low-profile soft pneumatic actuator 2015 ,		12
245	Hydrogel-Shielded Soft Tactile Sensor for Biocompatible Drug Delivery Monitoring. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2019 , 13,	1.3	12
244	Dynamic Modeling and Feedforward Control of Jaw Movements Driven by Viscoelastic Artificial Muscles. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 25-35	5.5	12
243	Real-Time 6DOF Pose Estimation of Endoscopic Instruments Using Printable Markers. <i>IEEE Sensors Journal</i> , 2019 , 19, 2338-2346	4	12

242	Reaction Force Mapping by 3-Axis Tactile Sensing With Arbitrary Angles for Tissue Hard-Inclusion Localization. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 26-35	5	12
241	Soft Tactile Sensors With Inkjet-Printing Conductivity and Hydrogel Biocompatibility for Retractors in Cadaveric Surgical Trials. <i>IEEE Sensors Journal</i> , 2018 , 18, 9840-9847	4	12
240	ICHNet: Intracerebral Hemorrhage (ICH) Segmentation Using Deep Learning. <i>Lecture Notes in Computer Science</i> , 2019 , 456-463	0.9	11
239	Ultrasound needle segmentation and trajectory prediction using excitation network. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020 , 15, 437-443	3.9	11
238	Automate surgical tasks for a flexible Serpentine Manipulator via learning actuation space trajectory from demonstration 2016 ,		11
237	Towards transferring skills to flexible surgical robots with programming by demonstration and reinforcement learning 2016 ,		11
236	Pose Characterization and Analysis of Soft Continuum Robots With Modeling Uncertainties Based on Interval Arithmetic. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019 , 16, 570-584	4.9	11
235	Corrections to, Radiation Characteristics of Ingestible Wireless Devices in Human Intestine Following Radio Frequency Exposure at 430, 800, 1200, and 2400 MHz[Aug 09]. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 2488-2488	4.9	11
234	Stretchable Capacitive Pressure Sensing Sleeve Deployable onto Catheter Balloons towards Continuous Intra-Abdominal Pressure Monitoring. <i>Biosensors</i> , 2021 , 11,	5.9	11
233	Endoscope Navigation and 3D Reconstruction of Oral Cavity by Visual SLAM with Mitigated Data Scarcity 2018 ,		11
232	Applications of Robotics, Artificial Intelligence, and Digital Technologies During COVID-19: A Review. <i>Disaster Medicine and Public Health Preparedness</i> , 2021 , 1-11	2.8	11
231	Analysis of Different Sparsity Methods in Constrained RBM for Sparse Representation in Cognitive Robotic Perception. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2015 , 80, 121-132 ^{2.9}	2.9	10
230	A compliant modular robotic hand with fabric force sensor for multiple versatile grasping modes 2016 ,		10
229	A preliminary study of motion control patterns for biorobotic spiders 2014 ,		10
228	Estimation of surgical tool-tip tracking error distribution in coordinate reference frame involving pivot calibration uncertainty. <i>Healthcare Technology Letters</i> , 2017 , 4, 193-198	1.9	10
227	Soft Transnasal Endoscopic Robot for Patient-Administered Nasopharynx Inspection1. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2015 , 9,	1.3	10
226	Experimental Evaluation of On-body Transmission Characteristics for Wireless Biosensors 2007 ,		10
225	Distributed Curvature Sensing and Shape Reconstruction for Soft Manipulators With Irregular Cross Sections Based on Parallel Dual-FBG Arrays. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 406-417 ^{5.5}	5.5	10

224	Preliminary Design and Performance Test of Tendon-Driven Origami-Inspired Soft Peristaltic Robot 2018,		10
223	Radiogenomics model for overall survival prediction of glioblastoma. <i>Medical and Biological Engineering and Computing</i> , 2020 , 58, 1767-1777	3.1	9
222	Development and modeling of an electromagnetic energy harvester from pressure fluctuations. <i>Mechatronics</i> , 2018 , 49, 36-45	3	9
221	Electromagnetically Responsive Soft-Flexible Robots and Sensors for Biomedical Applications and Impending Challenges. <i>Series in Bioengineering</i> , 2018 , 43-72	0.7	9
220	Model-free image guidance for intelligent tubular robots with pre-clinical feasibility study: Towards minimally invasive trans-orifice surgery 2015,		9
219	Learning and Reasoning with the Graph Structure Representation in Robotic Surgery. <i>Lecture Notes in Computer Science</i> , 2020 , 627-636	0.9	9
218	Diversified and Untethered Motion Generation Via Crease Patterning from Magnetically Actuated Caterpillar-Inspired Origami Robot. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 1678-1688	5.5	9
217	OrumBot: Origami-Based Deformable Robot Inspired by an Umbrella Structure 2018,		9
216	Soft Robotics in Medical Applications. <i>Journal of Medical Robotics Research</i> , 2018 , 03, 1841006	1.1	9
215	Evaluation of tumor shape features for overall survival prognosis in glioblastoma multiforme patients. <i>Surgical Oncology</i> , 2019 , 29, 178-183	2.5	8
214	Type-2 Fuzzy logic based time-delayed shared control in online-switching tele-operated and autonomous systems. <i>Robotics and Autonomous Systems</i> , 2018 , 101, 138-152	3.5	8
213	Self-triggered output feedback control for consensus of multi-agent systems. <i>Neurocomputing</i> , 2016 , 190, 179-187	5.4	8
212	Analytical Computation for AC Resistance and Reactance of Electric Machine Windings in Ferromagnetic Slots. <i>IEEE Transactions on Energy Conversion</i> , 2018 , 33, 1855-1864	5.4	8
211	Cognitive tracking of surgical instruments based on stereo vision and depth sensing 2013,		8
210	Minimum sweeping area motion planning for flexible serpentine surgical manipulator with kinematic constraints 2015,		8
209	A novel tele-operated flexible surgical arm with optimal trajectory tracking aiming for minimally invasive neurosurgery 2015,		8
208	Automated Tracking of Pallets in Warehouses: Beacon Layout and Asymmetric Ultrasound Observation Models 2007,		8
207	Nitinol actuated soft structures towards transnasal drug delivery: a pilot cadaver study. <i>Medical and Biological Engineering and Computing</i> , 2020 , 58, 611-623	3.1	8

206	Hydrodynamic analyses of an underwater fan-wing thruster in self-driving and towing experiments. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 165, 108132	4.6	8
205	Towards hybrid control of a flexible curvilinear surgical robot with visual/haptic guidance 2016 ,		8
204	. <i>IEEE Access</i> , 2018 , 6, 70444-70455	3.5	8
203	Pinch Grasp and Suction for Delicate Object Manipulations Using Modular Anthropomorphic Robotic Gripper with Soft Layer Enhancements. <i>Robotics</i> , 2019 , 8, 67	2.8	7
202	Transcend Anthropomorphic Robotic Grasping With Modular Antagonistic Mechanisms and Adhesive Soft Modulations. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 2463-2470	4.2	7
201	Understanding the Mobility Model of Wireless Body Sensor Networks 2006 ,		7
200	Needle-Size Bending Actuators Based on Controlled Nitinol Curvatures and Elastic Structures. <i>Journal of Mechanisms and Robotics</i> , 2020 , 12,	2.2	7
199	Additional planning with multiple objectives for reinforcement learning. <i>Knowledge-Based Systems</i> , 2020 , 193, 105392	7.3	7
198	Multiphysics Simulation of Magnetically Actuated Robotic Origami Worms. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 4923-4930	4.2	7
197	Ischemic Stroke Lesion Segmentation Using Adversarial Learning. <i>Lecture Notes in Computer Science</i> , 2019 , 292-300	0.9	7
196	Real-time surgical instrument tracking in robot-assisted surgery using multi-domain convolutional neural network. <i>Healthcare Technology Letters</i> , 2019 , 6, 159-164	1.9	7
195	A preliminary study on surgical instrument tracking based on multiple modules of monocular pose estimation 2014 ,		6
194	Design evolution and pilot study for a kirigami-inspired flexible and soft anthropomorphic robotic hand 2017 ,		6
193	Design analysis and bending modeling of a flexible robot for endoscope steering. <i>International Journal of Intelligent Robotics and Applications</i> , 2017 , 1, 224-237	1.7	6
192	Viscoelastic model based bilateral teleoperation for robotic-assisted tele-palpation. <i>Assembly Automation</i> , 2017 , 37, 322-334	2.1	6
191	Development of flexible fabric based tactile sensor for closed loop control of soft robotic actuator 2017 ,		6
190	Prototype development of a hand-held robotic light pipe for intraocular procedures 2015 ,		6
189	Research on Adaptive Neural Network Control System Based on Nonlinear U-Model with Time-Varying Delay. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-7	1.1	6

188	Tubular structure enhancement for surgical instrument detection in 3D ultrasound. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 7203-6</i>	0.9	6
187	INVESTIGATION OF THE ESSENTIALS FOR INTEGRATING OFF-THE-SHELF INDUSTRIAL ROBOTICS IN PRECISE COMPUTER-ASSISTED SURGERY. <i>Journal of Mechanics in Medicine and Biology, 2011, 11, 1113-1123</i>	9.7	6
186	Wireless Assistive Sensor Networks for the Deaf 2006,		6
185	Magnetically Steerable Serial and Parallel Structures by Mold-Free Origami Templating and Domain Setting. <i>Advanced Materials Technologies, 2101140</i>	6.8	6
184	Stretchable and Sensitive Silver Nanowire-Hydrogel Strain Sensors for Proprioceptive Actuation. <i>ACS Applied Materials & Interfaces, 2021, 13, 37816-37829</i>	9.5	6
183	Human-compliant body-attached soft robots towards automatic cooperative ultrasound imaging 2016,		6
182	Finger Movement Classification from Myoelectric Signals Using Convolutional Neural Networks 2018,		6
181	WaveCSP: a robust motor imagery classifier for consumer EEG devices. <i>Australasian Physical and Engineering Sciences in Medicine, 2019, 42, 159-168</i>	1.9	5
180	Inverse Kinematics with a Geometrical Approximation for Multi-Segment Flexible Curvilinear Robots. <i>Robotics, 2019, 8, 48</i>	2.8	5
179	Optimal teleoperation control of a constrained tendon-driven serpentine manipulator 2015,		5
178	. <i>IEEE/ASME Transactions on Mechatronics, 2020, 25, 1105-1116</i>	5.5	5
177	Preliminary development of a skull-mounted lightweight parallel robot toward minimally invasive neurosurgery 2018,		5
176	Compensating Uncertainties in Force Sensing for Robotic-Assisted Palpation. <i>Applied Sciences (Switzerland), 2019, 9, 2573</i>	2.6	5
175	Active Contact Enhancements With Stretchable Soft Layers and Piezoresistive Tactile Array for Robotic Grippers* 2019,		5
174	Rate Control to Reduce Bioeffects in Wireless Biomedical Sensor Networks 2006,		5
173	Investigating Network Optimization Approaches in Wireless Sensor Networks 2006,		5
172	Learning Domain Adaptation with Model Calibration for Surgical Report Generation in Robotic Surgery 2021,		5
171	Origami-Inspired Snap-through Bistability in Parallel and Curved Mechanisms Through the Inflection of Degree Four Vertices 2021,		5

170	AP-MTL: Attention Pruned Multi-task Learning Model for Real-time Instrument Detection and Segmentation in Robot-assisted Surgery 2020 ,		5
169	A Flexible Transoral Robot Towards COVID-19 Swab Sampling. <i>Frontiers in Robotics and AI</i> , 2021 , 8, 6121678		5
168	Glioblastoma multiforme prognosis: MRI missing modality generation, segmentation and radiogenomic survival prediction. <i>Computerized Medical Imaging and Graphics</i> , 2021 , 91, 101906	7.6	5
167	Investigation of a stiffness varying mechanism for flexible robotic system 2016 ,		5
166	Driving Flip Origami Motions with Thermal-Responsive Shape Memory Alloy 2019 ,		5
165	Class-Incremental Domain Adaptation with Smoothing and Calibration for Surgical Report Generation. <i>Lecture Notes in Computer Science</i> , 2021 , 269-278	0.9	5
164	Dynamic Piezoelectric Tactile Sensor for Tissue Hardness Measurement Using Symmetrical Flexure Hinges and Anisotropic Vibration Modes. <i>IEEE Sensors Journal</i> , 2021 , 21, 17712-17722	4	5
163	A preliminary study of force estimation based on surface EMG: Towards neuromechanically guided soft oral rehabilitation robot 2015 ,		4
162	Statistical atlas-based morphological variation analysis of the asian humerus: towards consistent allometric implant positioning. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 317-27	3.9	4
161	Magnetically Actuated Minimally Invasive Microbots for Biomedical Applications. <i>Series in Bioengineering</i> , 2018 , 11-41	0.7	4
160	Data-Defect Inspection With Kernel-Neighbor-Density-Change Outlier Factor. <i>IEEE Transactions on Automation Science and Engineering</i> , 2018 , 15, 225-238	4.9	4
159	Class Balanced PixelNet for Neurological Image Segmentation 2018 ,		4
158	Modeling and control of an integrated axial passive and radial active magnetic bearing system 2013 ,		4
157	Computer-assisted bone tumour ablation using sparse radiographs. <i>Advanced Robotics</i> , 2014 , 28, 303-315.7	5.7	4
156	Statistical atlas based registration and planning for ablating bone tumors in minimally invasive interventions 2012 ,		4
155	Rate Control to Reduce Bioeffects in Wireless Biomedical Sensor Networks 2006 ,		4
154	Global-Reasoned Multi-Task Learning Model for Surgical Scene Understanding. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4.2	4
153	Untethered Origami Worm Robot with Diverse Multi-Leg Attachments and Responsive Motions under Magnetic Actuation. <i>Robotics</i> , 2021 , 10, 118	2.8	4

152	Open-Source Development of a Low-Cost Stereo-Endoscopy System for Natural Orifice Transluminal Endoscopic Surgery. <i>Lecture Notes in Computer Science</i> , 2017 , 357-370	0.9	4
151	Feature-Guided Nonrigid 3-D Point Set Registration Framework for Image-Guided Liver Surgery: From Isotropic Positional Noise to Anisotropic Positional Noise. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 18, 471-483	4.9	4
150	ST-MTL: Spatio-Temporal multitask learning model to predict scanpath while tracking instruments in robotic surgery. <i>Medical Image Analysis</i> , 2021 , 67, 101837	15.4	4
149	Comparative Study of Motion Recognition with Temporal Modelling of Electromyography for Thumb and Index Finger Movements aiming for Wearable Robotic Finger Exercises 2018 ,		4
148	Regression based overall survival prediction of glioblastoma multiforme patients using a single discovery cohort of multi-institutional multi-channel MR images. <i>Medical and Biological Engineering and Computing</i> , 2019 , 57, 1683-1691	3.1	3
147	Nonlinear Fuzzy Linguistics for the Determination of Nitrogen Monoxide, Nitrogen Dioxide, and Sulfur Dioxide by Molecular Absorption Spectroscopy. <i>Instrumentation Science and Technology</i> , 2015 , 43, 558-572	1.4	3
146	An inertial measurement unit tracking system for body movement in comparison with optical tracking. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020 , 234, 728-737	1.7	3
145	Prototyping soft origami quad-bellows robots from single-bellows characterization 2020 , 19-37		3
144	Endoscope navigation with SLAM-based registration to computed tomography for transoral surgery. <i>International Journal of Intelligent Robotics and Applications</i> , 2020 , 4, 252-263	1.7	3
143	A Bimanual Robotic Teleoperation Architecture with Anthropomorphic Hybrid Grippers for Unstructured Manipulation Tasks. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2086	2.6	3
142	. <i>IEEE Access</i> , 2018 , 6, 1267-1276	3.5	3
141	Design, kinematics, simulation of omni-directional bending reachability for a parallel structure forceps manipulator 2016 ,		3
140	Design and Performance Evaluation of a Force/Torque Sensor for Tele-Operated Catheterization Procedures. <i>IEEE Sensors Journal</i> , 2016 , 16, 3208-3215	4	3
139	Estimating Dynamic Motion Parameters With an Improved Wavelet Thresholding and Inter-Scale Correlation. <i>IEEE Access</i> , 2018 , 6, 39827-39838	3.5	3
138	Nasoveillance: Delivering in Vivo Surveillance for Nasopharyngeal Carcinoma ¹ . <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014 , 8,	1.3	3
137	A miniature device aiming for long-term surveillance of nasopharynx cancer 2013 ,		3
136	Statistical humerus atlas for optimal design of Asian-specific humerus implants and associated intramedullary robotics 2013 ,		3
135	Pilot study and design conceptualization for a slim single-port surgical manipulator with spring backbones and catheter-size channels 2017 ,		3

134	Maker based shape tracking of a flexible serpentine manipulator 2015 ,		3
133	Preliminary design towards a magnetic actuated drug delivery system 2015 ,		3
132	INVESTIGATION OF NAVIGATION AND ROBOTIC SYSTEM FOR COMPUTER ASSISTED ORTHOPEDIC SURGERY: STATE-OF-ART AND PRELIMINARY RESULTS. <i>International Journal of Information Acquisition</i> , 2009 , 06, 171-179		3
131	Conflict and coalition models in inhomogeneous power allocation for wireless sensor networks 2009 ,		3
130	Design and Actuation of a Snake-Like Robot for Minimally Invasive Surgeries. <i>IFMBE Proceedings</i> , 2014 , 28-31	0.2	3
129	Preliminary design and study of a bio-inspired wire-driven serpentine robotic manipulator with direct drive capability 2016 ,		3
128	Positioning evaluation of tendon-driven flexible manipulators based on interval analysis. <i>Electronics Letters</i> , 2016 , 52, 1748-1749	1.1	3
127	Frequency-induced morphology alterations in microconfined biological cells. <i>Medical and Biological Engineering and Computing</i> , 2019 , 57, 819-835	3.1	3
126	. <i>IEEE Access</i> , 2021 , 9, 43168-43191	3.5	3
125	Deployable Telescopic Tubular Mechanisms With a Steerable Tongue Depressor Towards Self-Administered Oral Swab. <i>Frontiers in Robotics and AI</i> , 2021 , 8, 612959	2.8	3
124	Varying ultrasound power level to distinguish surgical instruments and tissue. <i>Medical and Biological Engineering and Computing</i> , 2018 , 56, 453-467	3.1	3
123	Estimation of Object Orientation Using Conductive Ink and Fabric Based Multilayered Tactile Sensor 2018 ,		3
122	Highly Stretchable and Kirigami-Structured Strain Sensors with Long Silver Nanowires of High Aspect Ratio. <i>Machines</i> , 2021 , 9, 186	2.9	3
121	Parameterized Distortion-Invariant Feature for Robust Tracking in Omnidirectional Vision. <i>IEEE Transactions on Automation Science and Engineering</i> , 2016 , 13, 743-756	4.9	2
120	Transferring optimal contact skills to flexible manipulators by reinforcement learning. <i>International Journal of Intelligent Robotics and Applications</i> , 2019 , 3, 326-337	1.7	2
119	Study on mathematic magnetic field model of rectangular coils for magnetic actuation 2015 ,		2
118	Multiple Unmanned Underwater Vehicles Consensus Control with Unmeasurable Velocity Information and Environmental Disturbances Under Switching Directed Topologies. <i>China Ocean Engineering</i> , 2020 , 34, 631-640	1.1	2
117	Modular origami joint operator to create bendable motions with multiple radii 2020 , 101-148		2

116	Handheld flexible robot with concentric tubes aiming for intraocular procedures 2020 , 149-167		2
115	Leader-Following Multiple Unmanned Underwater Vehicles Consensus Control under the Fixed and Switching Topologies with Unmeasurable Disturbances. <i>Complexity</i> , 2020 , 2020, 1-26	1.6	2
114	Compliant Finger Exoskeleton with Telescoping Super-elastic Transmissions. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020 , 100, 435-444	2.9	2
113	An Efficient Gyro-Aided Optical Flow Estimation in Fast Rotations With Auto-Calibration. <i>IEEE Sensors Journal</i> , 2018 , 18, 3391-3399	4	2
112	Low-Cost Pyrometry System With Nonlinear Multisense Partial Least Squares. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 48, 1029-1038	7.3	2
111	A randomized controlled trial on a nurse-led smartphone-based self-management programme for people with poorly controlled type 2 diabetes: A study protocol. <i>Journal of Advanced Nursing</i> , 2018 , 74, 190-200	3.1	2
110	Delicate manipulations with compliant mechanism and electrostatic adhesion 2016 ,		2
109	Reduction of power consumption for fluidic soft robots using energy recovery technique 2016 ,		2
108	An Anchoring and Steering Device for Wireless In Vivo Surveillance of Nasopharyngeal Carcinoma ¹ . <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014 , 8,	1.3	2
107	An analytic algorithm based electromagnetic localization method 2013 ,		2
106	A Laser Radar based mobile robot localization method 2013 ,		2
105	Developing a Bioeffect Metric for Wireless Biomedical Sensor Networks 2006 ,		2
104	A Game Theoretic Model of Distributed Power Control for Body Sensor Networks to Reduce Bioeffects 2006 ,		2
103	Effect of Subject Size on Electromagnetic Radiation from Source in Human Body Following 2450MHz Radio Frequency Exposure 2007 ,		2
102	Indoor patient position estimation using particle filtering and wireless body area networks. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 2277-80		2
101	Chip-Less Wireless Sensing of Kirigami Structural Morphing Under Various Mechanical Stimuli Using Home-Based Ink-Jet Printable Materials 2021 ,		2
100	Radiogenomics of Glioblastoma: Identification of Radiomics Associated with Molecular Subtypes. <i>Lecture Notes in Computer Science</i> , 2020 , 229-239	0.9	2
99	Condition Monitoring for Image-Based Visual Servoing Using Kalman Filter. <i>Lecture Notes in Computer Science</i> , 2015 , 842-850	0.9	2

98	Pilot Study of Trans-oral Robotic-Assisted Needle Direct Tracheostomy Puncture in Patients Requiring Prolonged Mechanical Ventilation. <i>Frontiers in Robotics and AI</i> , 2020 , 7, 575445	2.8	2
97	Stent Deployment Detection Using Radio Frequency-Based Sensor and Convolutional Neural Networks. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000092	6	2
96	The role studies of fixed-wings in underwater fan-wing thrusters. <i>Ocean Engineering</i> , 2020 , 216, 108049	3.9	2
95	Shape Tracking of Flexible Morphing Matters From Depth Images. <i>IEEE Sensors Journal</i> , 2021 , 21, 8234-8244	4.4	2
94	Aligning 3D Curve With Surface Using Tangent and Normal Vectors for Computer-Assisted Orthopedic Surgery. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2021 , 3, 372-383	3.1	2
93	A Magnetically actuated guide-wire steering system towards arteriovenous fistula angioplasty procedures 2016 ,		2
92	A Miniature Manipulator With Variable Stiffness Towards Minimally Invasive Transluminal Endoscopic Surgery. <i>IEEE Robotics and Automation Letters</i> , 2021 , 1-1	4.2	2
91	Design and control of a novel electromagnetic actuated 3-DoFs micropositioner. <i>Microsystem Technologies</i> , 2021 , 27, 3763-3772	1.7	2
90	Soft Tactile Sensors for Rehabilitation Robotic Hand with 3D Printed Folds. <i>IFMBE Proceedings</i> , 2018 , 55-60	0.2	2
89	MRI-powered biomedical devices. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2018 , 27, 191-202	2.1	2
88	Preoperative-Image Guided Neurosurgical Navigation Procedures with Electromagnetic Tracking: An Effective Pipeline and A Cadaver Study 2018 ,		2
87	Design Conceptualization of a Flexible Robotic Drill System for Minimally Invasive Tracheostomy 2018 ,		2
86	Strong, Ultrastretchable Hydrogel-Based Multilayered Soft Actuator Composites Enhancing Biologically Inspired Pumping Systems. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100121	3.5	2
85	Magnetically Deployable Robots Using Layered Lamina Emergent Mechanism. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 14	2.6	2
84	Dispersion characterization of magnetic actuated needleless injections with particle image velocimetry. <i>Medical and Biological Engineering and Computing</i> , 2019 , 57, 2435-2447	3.1	1
83	Image Guided Navigation Utilizing Intra-operative 3D Surface Scanning to Mitigate Morphological Deformation of Surface Anatomy. <i>Journal of Medical and Biological Engineering</i> , 2019 , 39, 932-943	2.2	1
82	Variable selection based on information tree for spectroscopy quantitative analysis. <i>Analytical Methods</i> , 2015 , 7, 6612-6618	3.2	1
81	Prototyping and characterisation of a variable stiffness actuation mechanism based on low melting point polymer. <i>International Journal of Mechatronics and Automation</i> , 2016 , 5, 211	0.2	1

80	Slender snake-like endoscopic robots in surgery 2020 , 1-17		1
79	Electromechanical characterization of magnetic responsive and conductive soft polymer actuators 2020 , 349-361		1
78	Tendon-driven linkage for steerable guide of flexible bending manipulation 2020 , 217-229		1
77	Single-port multichannel multi-degree-of-freedom robot with variable stiffness for natural orifice transluminal endoscopic surgery 2020 , 389-399		1
76	Real-time object detection and manipulation using biomimetic musculoskeletal soft robotic grasper addressing robotic fan-handling challenge 2020 , 115-141		1
75	Mathematical Modeling and Intelligent Algorithm for Multirobot Path Planning. <i>Mathematical Problems in Engineering</i> , 2017 , 2017, 1-2	1.1	1
74	Magnetic Tracking in Medical Robotics. <i>Series in Bioengineering</i> , 2018 , 141-162	0.7	1
73	A preliminary study on mathematic modeling of annular magnets in magnetic tracking systems 2014 ,		1
72	2013 ,		1
71	Modular design and actuation system comparison for underactuated tendon-driven soft anthropomorphic robotic finger 2017 ,		1
70	Research on Coordinated Robotic Motion Control Based on Fuzzy Decoupling Method in Fluidic Environments. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-10	1.1	1
69	Towards disposable and printable robotic endoscopic surgery system 2014 ,		1
68	A technical review on the orthopedic compliant robotic arms 2009 ,		1
67	Hybrid attitude estimation for laparoscopic surgical tools: a preliminary study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 5583-6	0.9	1
66	APPLICABILITY OF HOMOGENEOUS HUMAN TRUNK PHANTOM IN ESTIMATING THE RADIATION CHARACTERISTICS OF BODY-WORN DEVICES. <i>International Journal of Information Acquisition</i> , 2008 , 05, 65-82		1
65	Tracking Service for Mobile Body Sensor Networks Based on Transmission Power Aware Medium Access Control 2007 ,		1
64	Variation of radiation effects and signal efficiency with distance between electromagnetic source and trunk model. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 1184-7		1
63	MODELING THE GROUP MOBILITY PATTERN IN WIRELESS BODY SENSOR NETWORKS. <i>International Journal of Information Acquisition</i> , 2006 , 03, 259-270		1

62	SIRNet: Fine-Grained Surgical Interaction Recognition. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4.2	1
61	Detection of curved robots using 3D ultrasound		1
60	Concurrently bendable and rotatable continuum tubular robot for omnidirectional multi-core transurethral prostate biopsy. <i>Medical and Biological Engineering and Computing</i> , 2021 , 1	3.1	1
59	Analysis of Principle and Performance of a New 4DOF Hybrid Magnetic Bearing. <i>Journal of Magnetism</i> , 2016 , 21, 379-386	1.9	1
58	Fully-Printable Soft Actuator with Variable Stiffness by Phase Transition and Hydraulic Regulations. <i>Actuators</i> , 2021 , 10, 269	2.4	1
57	A Tubular Dual-Roller Bending Mechanism Toward Robotic Transurethral Prostate Biopsy. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 2483-2494	5.5	1
56	Towards a Touchless Master Console for Natural Interactions in Sterilized and Cognitive Robotic Surgery Environments. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 785-795	0.4	1
55	Investigation of Optimal Deployment Problem in Three-Dimensional Space Coverage for Swarm Robotic System. <i>Lecture Notes in Computer Science</i> , 2012 , 468-474	0.9	1
54	ACTORS: Adaptive and Compliant Transoral Robotic Surgery With Flexible Manipulators and Intelligent Guidance 2020 , 693-701		1
53	The Feasibility of Using a Smartphone Magnetometer for Assisting Needle Placement. <i>Annals of Biomedical Engineering</i> , 2020 , 48, 1147-1156	4.7	1
52	UKF-Based Motion Estimation of Cable-Driven Forceps for Robot-Assisted Surgical System. <i>IEEE Access</i> , 2020 , 8, 94912-94922	3.5	1
51	Cadaveric feasibility study of a teleoperated parallel continuum robot with variable stiffness for transoral surgery. <i>Medical and Biological Engineering and Computing</i> , 2020 , 58, 2063-2069	3.1	1
50	Continuum NasoXplorer manipulator with shape memory actuators for transnasal exploration 2020 , 287-316		1
49	Comparative Study of Machine Learning Algorithms to Classify Hand Gestures from Deployable and Breathable Kirigami-Based Electrical Impedance Bracelet. <i>Multimodal Technologies and Interaction</i> , 2020 , 4, 47	1.7	1
48	Highly Stretchable Flame-Retardant Skin for Soft Robotics with Hydrogel-Montmorillonite-Based Translucent Matrix. <i>Soft Robotics</i> , 2021 ,	9.2	1
47	Augmented reality technology in image-guided therapy: State-of-the-art review. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021 , 235, 1386-1398	1.7	1
46	Multi-objective parameter optimization design of a magnetically actuated intravitreal injection device 2016 ,		1
45	Sliding mode control based on U model for nonlinear discrete system with modeling uncertainties. <i>Cluster Computing</i> , 2019 , 22, 7471-7480	2.1	1

44	Heuristic orientation adjustment for better exploration in multi-objective optimization. <i>Neural Computing and Applications</i> , 2020 , 32, 4757-4771	4.8	1
43	Soft Robotic Gripper Driven by Flexible Shafts for Simultaneous Grasping and In-Hand Cap Manipulation. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 18, 1134-1143	4.9	1
42	Omnidirectional Steerable Forceps with Flexible Joints and Skin-like Stretchable Strain Sensors. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	1
41	Dynamics Modeling of a Magnetic Spherical Joint Based Parallel Brain Surgery Robot 2018 ,		1
40	U-RSNet: An unsupervised probabilistic model for joint registration and segmentation. <i>Neurocomputing</i> , 2021 , 450, 264-274	5.4	1
39	Mapping Drug-Induced Neuropathy through In-Situ Motor Protein Tracking and Machine Learning. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14907-14915	16.4	1
38	Biomimetic Incremental Domain Generalization with a Graph Network for Surgical Scene Understanding. <i>Biomimetics</i> , 2022 , 7, 68	3.7	1
37	Design evolution of a flexible robotic bending end-effector for transluminal explorations 2020 , 289-325		0
36	Design and Analysis of Magnetic Suspension Actuators in Medical Robotics. <i>Series in Bioengineering</i> , 2018 , 105-139	0.7	0
35	Lego exoskeleton: An educational tool to design rehabilitation device 2017 ,		0
34	Auto-generating of 2D tessellated crease patterns of 3D biomimetic spring origami structure. <i>Biomimetic Intelligence and Robotics</i> , 2022 , 2, 100036		0
33	Towards catheter steering using magnetic tractor beam coupling.. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2022 , 9544119221075400	1.7	0
32	Tunable stiffness using negative Poisson's ratio toward load-bearing continuum tubular mechanisms in medical robotics 2020 , 317-358		0
31	Pre-Clinical Proof-of-Concept Study of a Bladder Irrigation Feedback System for Gross Haematuria in a Lab Setup. <i>Multimodal Technologies and Interaction</i> , 2020 , 4, 59	1.7	0
30	NESO-Based Path Following Control for Underactuated Hovercrafts with Unknown Nonlinear Uncertainties and a Safety Limit Constraint. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5287	2.6	0
29	Radiofrequency tumor ablation system with a wireless or implantable probe. <i>Wireless Power Transfer</i> , 2020 , 7, 95-105	0.9	0
28	RSegNet: A Joint Learning Framework for Deformable Registration and Segmentation. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 1-15	4.9	0
27	Deployable Tubular Mechanisms Integrated with Magnetic Anchoring and Guidance System. <i>Actuators</i> , 2022 , 11, 124	2.4	0

- 26 Soft-bodied flexible bending mechanism with silent shape memory alloys aiming for robotic endoscopy **2020**, 231-248
- 25 EndoGoose: a flexible and steerable endoscopic forceps with actively pose-retaining bendable sections **2020**, 401-416
- 24 Thermo-responsive hydrogel-based circular valve embedded with shape-memory actuators **2020**, 455-472
- 23 Robotic transluminal Pan-and-Tilt Scope **2020**, 363-388
- 22 Cable-driven flexible endoscope utilizing diamond-shaped perforations: FlexDiamond **2020**, 39-75
- 21 Flexible steerable manipulator utilizing complementary configuration of multiple routing grooves and ball joints for stable omnidirectional bending **2020**, 77-99
- 20 Flexible robotic platform with multiple-bending tendon-driven mechanism **2020**, 269-288
- 19 Force sensing in compact concentric tube mechanism with optical fibers **2020**, 327-347
- 18 OmniFlex: omnidirectional flexible hand-held endoscopic manipulator with spheroidal joint **2020**, 473-489
- 17 Real time in-vivo miniature endoscopic surveillance system for imaging of nasopharynx. *World Journal of Otorhinolaryngology - Head and Neck Surgery*, **2020**, 6, 4-9 2.6
- 16 Tendon routing and anchoring for cable-driven single-port surgical manipulators with spring backbones and luminal constraints **2020**, 169-194
- 15 Compliant bending tubular mechanisms with variable groove patterns for flexible robotic drilling delivery **2020**, 195-215
- 14 Comparative mechanical analysis for flexible bending manipulators with quad-tendon antagonistic pairs **2020**, 249-267
- 13 Flexible drill manipulator utilizing different rolling sliding joints for transoral drilling through the tracheal tissue **2020**, 417-454
- 12 System Architecture of a Body Area Network and Its Web Service Based Data Publishing. *Lecture Notes in Computer Science*, **2006**, 947-954 0.9
- 11 An Active Magnetic Bearing With Controllable Permanent-Magnet Bias Field. *IEEE/ASME Transactions on Mechatronics*, **2022**, 1-8 5.5
- 10 Chip-Less Real-Time Wireless Sensing of Endotracheal Intubation Tubes by Printing and Mounting Conformable Antenna Tag. *IEEE Robotics and Automation Letters*, **2022**, 7, 2369-2376 4.2
- 9 HGESO-based disturbance rejection path following control for underactuated hovercrafts

8	Strong, Ultrastretchable Hydrogel-Based Multilayered Soft Actuator Composites Enhancing Biologically Inspired Pumping Systems. <i>Advanced Engineering Materials</i> , 2021 , 23, 2170038	3.5
7	Effects of cross-flow fan on hydrodynamic and acoustic performance of underwater fan-wing thruster. <i>Ocean Engineering</i> , 2021 , 241, 110078	3.9
6	Force Efficient Analysis of a Hybrid Magnetic Actuation System for Minimally Invasive Diagnostics and Interventions. <i>Lecture Notes in Computer Science</i> , 2013 , 167-175	0.9
5	AI-Assisted CT as a Clinical and Research Tool for COVID-19. <i>Frontiers in Artificial Intelligence</i> , 2021 , 4, 590189	3
4	Clavicle bone segmentation from CT images using U-Net-based deep learning algorithm 2021 , 205-214	
3	Identifying risk factors of intracerebral hemorrhage stability using explainable attention model. <i>Medical and Biological Engineering and Computing</i> , 2021 , 60, 337	3.1
2	Analysis of a thrust magnetic bearing with rectangular wire winding. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622210776	1.3
1	Authors' Responses to Peer Reviews of Supporting Technologies for COVID-19 Prevention: Systemized Review <i>Jmirx Med</i> , 2022 , 3, e38693	0.2