

Hongliang Ren

List of Publications by Year in descending order

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411
papers

8,682
citations

38742

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76900

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418
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418
docs citations

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times ranked

7712
citing authors

#	ARTICLE	IF	CITATIONS
1	Omnidirectional Steerable Forceps With Flexible Joints and Skin-Like Stretchable Strain Sensors. IEEE/ASME Transactions on Mechatronics, 2022, 27, 713-724.	5.8	2
2	Highly Stretchable Flame-Retardant Skin for Soft Robotics with Hydrogel- α -Montmorillonite-Based Translucent Matrix. Soft Robotics, 2022, 9, 98-118.	8.0	9
3	Applications of Robotics, Artificial Intelligence, and Digital Technologies During COVID-19: A Review. Disaster Medicine and Public Health Preparedness, 2022, 16, 1634-1644.	1.3	34
4	RSegNet: A Joint Learning Framework for Deformable Registration and Segmentation. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2499-2513.	5.2	8
5	Concurrently bendable and rotatable continuum tubular robot for omnidirectional multi-core transurethral prostate biopsy. Medical and Biological Engineering and Computing, 2022, 60, 229-238.	2.8	3
6	Magnetically Steerable Serial and Parallel Structures by Mold-Free Origami Templating and Domain Setting. Advanced Materials Technologies, 2022, 7, .	5.8	18
7	Soft Ionic Pressure Sensor with Aloe Vera Gel for Low-Pressure Applications. Micromachines, 2022, 13, 146.	2.9	4
8	Global-Reasoned Multi-Task Learning Model for Surgical Scene Understanding. IEEE Robotics and Automation Letters, 2022, 7, 3858-3865.	5.1	13
9	Auto-generating of 2D tessellated crease patterns of 3D biomimetic spring origami structure. Biomimetic Intelligence and Robotics, 2022, 2, 100036.	2.0	1
10	An Active Magnetic Bearing With Controllable Permanent-Magnet Bias Field. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3474-3481.	5.8	5
11	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.	5.1	2
12	SIRNet: Fine-Grained Surgical Interaction Recognition. IEEE Robotics and Automation Letters, 2022, 7, 4212-4219.	5.1	7
13	Towards catheter steering using magnetic tractor beam coupling. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 583-591.	1.8	1
14	Supporting Technologies for COVID-19 Prevention: Systemized Review. Jmirx Med, 2022, 3, e30344.	0.4	5
15	Printable Kirigami-inspired Flexible and Soft Anthropomorphic Robotic Hand. Journal of Bionic Engineering, 2022, 19, 668-677.	5.0	2
16	Magnetically Deployable Robots Using Layered Lamina Emergent Mechanism. Applied Sciences (Switzerland), 2022, 12, 14.	2.5	2
17	Identifying risk factors of intracerebral hemorrhage stability using explainable attention model. Medical and Biological Engineering and Computing, 2022, 60, 337-348.	2.8	1
18	Deployable Tubular Mechanisms Integrated with Magnetic Anchoring and Guidance System. Actuators, 2022, 11, 124.	2.3	2

#	ARTICLE	IF	CITATIONS
19	Analysis of a thrust magnetic bearing with rectangular wire winding. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 7031-7040.	2.1	1
20	Biomimetic Incremental Domain Generalization with a Graph Network for Surgical Scene Understanding. Biomimetics, 2022, 7, 68.	3.3	1
21	Authors' Responses to Peer Reviews of "Supporting Technologies for COVID-19 Prevention: Systemized Review" Jmirx Med, 2022, 3, e38693.	0.4	0
22	Soft Robotic Gripper Driven by Flexible Shafts for Simultaneous Grasping and In-Hand Cap Manipulation. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1134-1143.	5.2	11
23	Feature-Guided Nonrigid 3-D Point Set Registration Framework for Image-Guided Liver Surgery: From Isotropic Positional Noise to Anisotropic Positional Noise. IEEE Transactions on Automation Science and Engineering, 2021, 18, 471-483.	5.2	12
24	Diversified and Untethered Motion Generation Via Crease Patterning from Magnetically Actuated Caterpillar-Inspired Origami Robot. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1678-1688.	5.8	16
25	ST-MTL: Spatio-Temporal multitask learning model to predict scanpath while tracking instruments in robotic surgery. Medical Image Analysis, 2021, 67, 101837.	11.6	19
26	Reaction Force Mapping by 3-Axis Tactile Sensing With Arbitrary Angles for Tissue Hard-Inclusion Localization. IEEE Transactions on Biomedical Engineering, 2021, 68, 26-35.	4.2	25
27	Class-Incremental Domain Adaptation with Smoothing and Calibration for Surgical Report Generation. Lecture Notes in Computer Science, 2021, , 269-278.	1.3	15
28	Glioma Survival Analysis Empowered With Data Engineering" A Survey. IEEE Access, 2021, 9, 43168-43191.	4.2	24
29	Clavicle bone segmentation from CT images using U-Net-based deep learning algorithm. , 2021, , 205-214.		0
30	A Miniature Manipulator With Variable Stiffness Towards Minimally Invasive Transluminal Endoscopic Surgery. IEEE Robotics and Automation Letters, 2021, 6, 5541-5548.	5.1	21
31	Design and control of a novel electromagnetic actuated 3-DoFs micropositioner. Microsystem Technologies, 2021, 27, 3763-3772.	2.0	6
32	Deployable Telescopic Tubular Mechanisms With a Steerable Tongue Depressor Towards Self-Administered Oral Swab. Frontiers in Robotics and AI, 2021, 8, 612959.	3.2	4
33	Shape Tracking of Flexible Morphing Matters From Depth Images. IEEE Sensors Journal, 2021, 21, 8234-8244.	4.7	2
34	A Flexible Transoral Robot Towards COVID-19 Swab Sampling. Frontiers in Robotics and AI, 2021, 8, 612167.	3.2	18
35	Aligning 3D Curve With Surface Using Tangent and Normal Vectors for Computer-Assisted Orthopedic Surgery. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 372-383.	3.2	9
36	Stretchable Capacitive Pressure Sensing Sleeve Deployable onto Catheter Balloons towards Continuous Intra-Abdominal Pressure Monitoring. Biosensors, 2021, 11, 156.	4.7	21

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37	A Triboelectric Tactile Perception Ring for Continuum Robot Collision-Aware. , 2021, , .		0
38	Stretchable and Sensitive Silver Nanowire-Hydrogel Strain Sensors for Proprioceptive Actuation. ACS Applied Materials & Interfaces, 2021, 13, 37816-37829.	8.0	41
39	Glioblastoma multiforme prognosis: MRI missing modality generation, segmentation and radiogenomic survival prediction. Computerized Medical Imaging and Graphics, 2021, 91, 101906.	5.8	18
40	Multiphysics Simulation of Magnetically Actuated Robotic Origami Worms. IEEE Robotics and Automation Letters, 2021, 6, 4923-4930.	5.1	17
41	Augmented reality technology in image-guided therapy: State-of-the-art review. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 1386-1398.	1.8	10
42	AI-Assisted CT as a Clinical and Research Tool for COVID-19. Frontiers in Artificial Intelligence, 2021, 4, 590189.	3.4	0
43	Kirigami Strain Sensing on Balloon Catheters with Temporary Tattoo Paper. , 2021, , .		2
44	U-RSNet: An unsupervised probabilistic model for joint registration and segmentation. Neurocomputing, 2021, 450, 264-274.	5.9	11
45	ScoopNet: 6DOF Pose Estimation pipeline for Origami-inspired Worm Robots. , 2021, , .		4
46	Dynamic Piezoelectric Tactile Sensor for Tissue Hardness Measurement Using Symmetrical Flexure Hinges and Anisotropic Vibration Modes. IEEE Sensors Journal, 2021, 21, 17712-17722.	4.7	11
47	Strong, Ultrastretchable Hydrogel-Based Multilayered Soft Actuator Composites Enhancing Biologically Inspired Pumping Systems. Advanced Engineering Materials, 2021, 23, 2100121.	3.5	9
48	Highly Stretchable and Kirigami-Structured Strain Sensors with Long Silver Nanowires of High Aspect Ratio. Machines, 2021, 9, 186.	2.2	5
49	Thermo-Responsive Hydrogel-Based Soft Valves with Annular Actuation Calibration and Circumferential Gripping. Bioengineering, 2021, 8, 127.	3.5	3
50	Mapping Drug-Induced Neuropathy through In-Situ Motor Protein Tracking and Machine Learning. Journal of the American Chemical Society, 2021, 143, 14907-14915.	13.7	11
51	Learning Domain Adaptation with Model Calibration for Surgical Report Generation in Robotic Surgery. , 2021, , .		14
52	Origami-Inspired Snap-through Bistability in Parallel and Curved Mechanisms Through the Inflection of Degree Four Vertexes. , 2021, , .		7
53	Chip-Less Wireless Sensing of Kirigami Structural Morphing Under Various Mechanical Stimuli Using Home-Based Ink-Jet Printable Materials. , 2021, , .		2
54	Magnetically-Connected Modular Reconfigurable Mini-robotic System with Bilateral Isokinematic Mapping and Fast On-site Assembly towards Minimally Invasive Procedures. , 2021, , .		1

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55	Remote-Center-of-Motion Recommendation toward Brain Needle Intervention Using Deep Reinforcement Learning. , 2021, , .		5
56	Strong, Ultrastretchable Hydrogel-Based Multilayered Soft Actuator Composites Enhancing Biologically Inspired Pumping Systems. Advanced Engineering Materials, 2021, 23, 2170038.	3.5	0
57	Fully-Printable Soft Actuator with Variable Stiffness by Phase Transition and Hydraulic Regulations. Actuators, 2021, 10, 269.	2.3	9
58	A Tubular Dual-Roller Bending Mechanism Toward Robotic Transurethral Prostate Biopsy. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2483-2494.	5.8	6
59	Effects of cross-flow fan on hydrodynamic and acoustic performance of underwater fan-wing thruster. Ocean Engineering, 2021, 241, 110078.	4.3	1
60	Untethered Origami Worm Robot with Diverse Multi-Leg Attachments and Responsive Motions under Magnetic Actuation. Robotics, 2021, 10, 118.	3.5	9
61	Heuristic orientation adjustment for better exploration in multi-objective optimization. Neural Computing and Applications, 2020, 32, 4757-4771.	5.6	3
62	Statistical Model of Total Target Registration Error in Image-Guided Surgery. IEEE Transactions on Automation Science and Engineering, 2020, 17, 151-165.	5.2	24
63	Disposable FBG-Based Tridirectional Force/Torque Sensor for Aspiration Instruments in Neurosurgery. IEEE Transactions on Industrial Electronics, 2020, 67, 3236-3247.	7.9	32
64	A High-Resolution Triaxial Catheter Tip Force Sensor With Miniature Flexure and Suspended Optical Fibers. IEEE Transactions on Industrial Electronics, 2020, 67, 5101-5111.	7.9	40
65	Evolution and Current Applications of Robot-Assisted Fracture Reduction: A Comprehensive Review. Annals of Biomedical Engineering, 2020, 48, 203-224.	2.5	49
66	Flexible Robot With Variable Stiffness in Transoral Surgery. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1-10.	5.8	58
67	ACTORS: Adaptive and Compliant Transoral Robotic Surgery With Flexible Manipulators and Intelligent Guidance. , 2020, , 693-701.		2
68	Nitinol actuated soft structures towards transnasal drug delivery: a pilot cadaver study. Medical and Biological Engineering and Computing, 2020, 58, 611-623.	2.8	9
69	Additional planning with multiple objectives for reinforcement learning. Knowledge-Based Systems, 2020, 193, 105392.	7.1	12
70	The Feasibility of Using a Smartphone Magnetometer for Assisting Needle Placement. Annals of Biomedical Engineering, 2020, 48, 1147-1156.	2.5	2
71	Distributed Curvature Sensing and Shape Reconstruction for Soft Manipulators With Irregular Cross Sections Based on Parallel Dual-FBG Arrays. IEEE/ASME Transactions on Mechatronics, 2020, 25, 406-417.	5.8	26
72	AP-MTL: Attention Pruned Multi-task Learning Model for Real-time Instrument Detection and Segmentation in Robot-assisted Surgery. , 2020, , .		14

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73	UKF-Based Motion Estimation of Cable-Driven Forceps for Robot-Assisted Surgical System. IEEE Access, 2020, 8, 94912-94922.	4.2	5
74	Hydrodynamic analyses of an underwater fan-wing thruster in self-driving and towing experiments. Measurement: Journal of the International Measurement Confederation, 2020, 165, 108132.	5.0	10
75	Cadaveric feasibility study of a teleoperated parallel continuum robot with variable stiffness for transoral surgery. Medical and Biological Engineering and Computing, 2020, 58, 2063-2069.	2.8	5
76	Continuum NasoXplorer manipulator with shape memory actuators for transnasal exploration. , 2020, , 287-316.		1
77	Tunable stiffness using negative Poisson's ratio toward load-bearing continuum tubular mechanisms in medical robotics. , 2020, , 317-358.		2
78	Pilot Study of Trans-oral Robotic-Assisted Needle Direct Tracheostomy Puncture in Patients Requiring Prolonged Mechanical Ventilation. Frontiers in Robotics and AI, 2020, 7, 575445.	3.2	7
79	Wireless Ti ₃ C ₂ T _x MXene Strain Sensor with Ultrahigh Sensitivity and Designated Working Windows for Soft Exoskeletons. ACS Nano, 2020, 14, 11860-11875.	14.6	99
80	Pre-Clinical Proof-of-Concept Study of a Bladder Irrigation Feedback System for Gross Haematuria in a Lab Setup. Multimodal Technologies and Interaction, 2020, 4, 59.	2.5	2
81	Fully organic compliant dry electrodes self-adhesive to skin for long-term motion-robust epidermal biopotential monitoring. Nature Communications, 2020, 11, 4683.	12.8	245
82	Stent Deployment Detection Using Radio Frequency-Based Sensor and Convolutional Neural Networks. Advanced Intelligent Systems, 2020, 2, 2000092.	6.1	2
83	NESO-Based Path Following Control for Underactuated Hovercrafts with Unknown Nonlinear Uncertainties and a Safety Limit Constraint. Applied Sciences (Switzerland), 2020, 10, 5287.	2.5	2
84	Radiofrequency tumor ablation system with a wireless or implantable probe. Wireless Power Transfer, 2020, 7, 95-105.	1.1	2
85	Comparative Study of Machine Learning Algorithms to Classify Hand Gestures from Deployable and Breathable Kirigami-Based Electrical Impedance Bracelet. Multimodal Technologies and Interaction, 2020, 4, 47.	2.5	4
86	The role studies of fixed-wings in underwater fan-wing thrusters. Ocean Engineering, 2020, 216, 108049.	4.3	4
87	Multiple Unmanned Underwater Vehicles Consensus Control with Unmeasurable Velocity Information and Environmental Disturbances Under Switching Directed Topologies. China Ocean Engineering, 2020, 34, 631-640.	1.6	7
88	An inertial measurement unit tracking system for body movement in comparison with optical tracking. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 728-737.	1.8	9
89	Radiogenomics model for overall survival prediction of glioblastoma. Medical and Biological Engineering and Computing, 2020, 58, 1767-1777.	2.8	24
90	Portable Body-Attached Positioning Mechanism Toward Robotic Needle Intervention. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1105-1116.	5.8	14

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91	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.	5.2	33
92	A fuzzy rough number-based AHP-TOPSIS for design concept evaluation under uncertain environments. Applied Soft Computing Journal, 2020, 91, 106228.	7.2	102
93	Soft-bodied flexible bending mechanism with silent shape memory alloys aiming for robotic endoscopy. , 2020, , 231-248.		0
94	EndoGoose: a flexible and steerable endoscopic forceps with actively pose-retaining bendable sections. , 2020, , 401-416.		0
95	Thermo-responsive hydrogel-based circular valve embedded with shape-memory actuators. , 2020, , 455-472.		0
96	Slender snake-like endoscopic robots in surgery. , 2020, , 1-17.		1
97	Robotic transluminal Pan-and-Tilt Scope. , 2020, , 363-388.		0
98	Prototyping soft origami quad-bellows robots from single-bellows characterization. , 2020, , 19-37.		3
99	Cable-driven flexible endoscope utilizing diamond-shaped perforations: FlexDiamond. , 2020, , 39-75.		0
100	Flexible steerable manipulator utilizing complementary configuration of multiple routing grooves and ball joints for stable omnidirectional bending. , 2020, , 77-99.		0
101	Modular origami joint operator to create bendable motions with multiple radii. , 2020, , 101-148.		2
102	Handheld flexible robot with concentric tubes aiming for intraocular procedures. , 2020, , 149-167.		2
103	Flexible robotic platform with multiple-bending tendon-driven mechanism. , 2020, , 269-288.		0
104	Force sensing in compact concentric tube mechanism with optical fibers. , 2020, , 327-347.		0
105	Electromechanical characterization of magnetic responsive and conductive soft polymer actuators. , 2020, , 349-361.		1
106	OmniFlex: omnidirectional flexible hand-held endoscopic manipulator with spheroidal joint. , 2020, , 473-489.		0
107	Real time inâ€vivo miniature endoscopic surveillance system for imaging of nasopharynx. World Journal of Otorhinolaryngology - Head and Neck Surgery, 2020, 6, 4-9.	1.6	0
108	Tendon routing and anchoring for cable-driven single-port surgical manipulators with spring backbones and luminal constraints. , 2020, , 169-194.		0

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109	Compliant bending tubular mechanisms with variable groove patterns for flexible robotic drilling delivery. , 2020, , 195-215.		0
110	Tendon-driven linkage for steerable guide of flexible bending manipulation. , 2020, , 217-229.		1
111	Comparative mechanical analysis for flexible bending manipulators with quad-tendon antagonistic pairs. , 2020, , 249-267.		0
112	Design evolution of a flexible robotic bending end-effector for transluminal explorations. , 2020, , 289-325.		1
113	Single-port multichannel multi-degree-of-freedom robot with variable stiffness for natural orifice transluminal endoscopic surgery. , 2020, , 389-399.		1
114	Flexible drill manipulator utilizing different rolling sliding joints for transoral drilling through the tracheal tissue. , 2020, , 417-454.		0
115	Real-time object detection and manipulation using biomimetic musculoskeletal soft robotic grasper addressing robotic fan-handling challenge. , 2020, , 115-141.		1
116	Leader-Following Multiple Unmanned Underwater Vehicles Consensus Control under the Fixed and Switching Topologies with Unmeasurable Disturbances. Complexity, 2020, 2020, 1-26.	1.6	10
117	Ultrasound needle segmentation and trajectory prediction using excitation network. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 437-443.	2.8	20
118	A bioinspired analogous nerve towards artificial intelligence. Nature Communications, 2020, 11, 268.	12.8	80
119	Compliant Finger Exoskeleton with Telescoping Super-elastic Transmissions. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 100, 435-444.	3.4	5
120	Endoscope navigation with SLAM-based registration to computed tomography for transoral surgery. International Journal of Intelligent Robotics and Applications, 2020, 4, 252-263.	2.8	6
121	A Bimanual Robotic Teleoperation Architecture with Anthropomorphic Hybrid Grippers for Unstructured Manipulation Tasks. Applied Sciences (Switzerland), 2020, 10, 2086.	2.5	9
122	Brain Tumor Segmentation and Survival Prediction Using 3D Attention UNet. Lecture Notes in Computer Science, 2020, , 262-272.	1.3	43
123	Learning and Reasoning with the Graph Structure Representation in Robotic Surgery. Lecture Notes in Computer Science, 2020, , 627-636.	1.3	21
124	Radiogenomics of Glioblastoma: Identification of Radiomics Associated with Molecular Subtypes. Lecture Notes in Computer Science, 2020, , 229-239.	1.3	5
125	Origami-Layer-Jamming Deployable Surgical Retractor With Variable Stiffness and Tactile Sensing. Journal of Mechanisms and Robotics, 2020, 12, .	2.2	29
126	Needle-Size Bending Actuators Based on Controlled Nitinol Curvatures and Elastic Structures. Journal of Mechanisms and Robotics, 2020, 12, .	2.2	8

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127	Autofocus System for Imaging Multiple Cells Across Thick Liquid Layers in Different Focal Planes. , 2020, , .		0
128	Underwater Feature Comparison of a Fan-Wing, a Propeller and a Fixed-Wing. , 2020, , .		0
129	HGESO-based disturbance rejection path following control for underactuated hovercrafts. , 2020, , .		0
130	A CT-visible Thermal Ablation Phantom. , 2020, , .		4
131	Pose Characterization and Analysis of Soft Continuum Robots With Modeling Uncertainties Based on Interval Arithmetic. IEEE Transactions on Automation Science and Engineering, 2019, 16, 570-584.	5.2	18
132	Surgical Instrument Tracking By Multiple Monocular Modules and a Sensor Fusion Approach. IEEE Transactions on Automation Science and Engineering, 2019, 16, 629-639.	5.2	32
133	A Robotic System With Multichannel Flexible Parallel Manipulators for Single Port Access Surgery. IEEE Transactions on Industrial Informatics, 2019, 15, 1678-1687.	11.3	57
134	Compensating Uncertainties in Force Sensing for Robotic-Assisted Palpation. Applied Sciences (Switzerland), 2019, 9, 2573.	2.5	11
135	Active Contact Enhancements With Stretchable Soft Layers and Piezoresistive Tactile Array for Robotic Grippers. , 2019, , .		7
136	Multifunctional metallic backbones for origami robotics with strain sensing and wireless communication capabilities. Science Robotics, 2019, 4, .	17.6	53
137	Pinch Grasp and Suction for Delicate Object Manipulations Using Modular Anthropomorphic Robotic Gripper with Soft Layer Enhancements. Robotics, 2019, 8, 67.	3.5	10
138	Transferring optimal contact skills to flexible manipulators by reinforcement learning. International Journal of Intelligent Robotics and Applications, 2019, 3, 326-337.	2.8	5
139	Dispersion characterization of magnetic actuated needleless injections with particle image velocimetry. Medical and Biological Engineering and Computing, 2019, 57, 2435-2447.	2.8	1
140	Deep Reinforcement Learning for Soft, Flexible Robots: Brief Review with Impending Challenges. Robotics, 2019, 8, 4.	3.5	73
141	WaveCSP: a robust motor imagery classifier for consumer EEG devices. Australasian Physical and Engineering Sciences in Medicine, 2019, 42, 159-168.	1.3	11
142	Image Guided Navigation Utilizing Intra-operative 3D Surface Scanning to Mitigate Morphological Deformation of Surface Anatomy. Journal of Medical and Biological Engineering, 2019, 39, 932-943.	1.8	2
143	Inverse Kinematics with a Geometrical Approximation for Multi-Segment Flexible Curvilinear Robots. Robotics, 2019, 8, 48.	3.5	12
144	Evaluation of tumor shape features for overall survival prognosis in glioblastoma multiforme patients. Surgical Oncology, 2019, 29, 178-183.	1.6	18

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145	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.	2.8	6
146	Graphene Oxide-Enabled Synthesis of Metal Oxide Origamis for Soft Robotics. <i>ACS Nano</i> , 2019, 13, 5410-5420.	14.6	28
147	Transcend Anthropomorphic Robotic Grasping With Modular Antagonistic Mechanisms and Adhesive Soft Modulations. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 2463-2470.	5.1	12
148	A Compliant Transoral Surgical Robotic System Based on a Parallel Flexible Mechanism. <i>Annals of Biomedical Engineering</i> , 2019, 47, 1329-1344.	2.5	40
149	ICHNet: Intracerebral Hemorrhage (ICH) Segmentation Using Deep Learning. <i>Lecture Notes in Computer Science</i> , 2019, , 456-463.	1.3	17
150	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.	1.3	15
151	Real-Time Instrument Segmentation in Robotic Surgery Using Auxiliary Supervised Deep Adversarial Learning. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 2188-2195.	5.1	70
152	Layer-Jamming Suction Grippers With Variable Stiffness. <i>Journal of Mechanisms and Robotics</i> , 2019, 11, .	2.2	26
153	Ischemic Stroke Lesion Segmentation Using Adversarial Learning. <i>Lecture Notes in Computer Science</i> , 2019, , 292-300.	1.3	7
154	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.	8.0	98
155	Driving Flip Origami Motions with Thermal-Responsive Shape Memory Alloy. , 2019, , .		5
156	Biomimetic Stretchable Sensor Resembling Shar-Pei Crumples with 2D Materials towards Collaborative Robotic Minimally Invasive Procedures. , 2019, , .		0
157	Real-time surgical instrument tracking in robot-assisted surgery using multi-domain convolutional neural network. <i>Healthcare Technology Letters</i> , 2019, 6, 159-164.	3.3	21
158	Hydrogel-matrix encapsulated Nitinol actuation with self-cooling mechanism. <i>RSC Advances</i> , 2019, 9, 34244-34255.	3.6	27
159	Multilateral Teleoperation With New Cooperative Structure Based on Reconfigurable Robots and Type-2 Fuzzy Logic. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 2845-2859.	9.5	27
160	Frequency-induced morphology alterations in microconfined biological cells. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 819-835.	2.8	4
161	Safety-Enhanced Model-Free Visual Servoing for Continuum Tubular Robots Through Singularity Avoidance in Confined Environments. <i>IEEE Access</i> , 2019, 7, 21539-21558.	4.2	30
162	MR-Conditional SMA-Based Origami Joint. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 883-888.	5.8	28

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163	Dynamic Modeling and Feedforward Control of Jaw Movements Driven by Viscoelastic Artificial Muscles. IEEE/ASME Transactions on Mechatronics, 2019, 24, 25-35.	5.8	19
164	Bioinspired Soft Actuators for Eyeball Motions in Humanoid Robots. IEEE/ASME Transactions on Mechatronics, 2019, 24, 100-108.	5.8	29
165	Applications of Wireless Power Transfer in Medicine: State-of-the-Art Reviews. Annals of Biomedical Engineering, 2019, 47, 22-38.	2.5	39
166	Real-Time 6DOF Pose Estimation of Endoscopic Instruments Using Printable Markers. IEEE Sensors Journal, 2019, 19, 2338-2346.	4.7	25
167	Sliding mode control based on U model for nonlinear discrete system with modeling uncertainties. Cluster Computing, 2019, 22, 7471-7480.	5.0	1
168	Ultrasound-Assisted Guidance With Force Cues for Intravascular Interventions. IEEE Transactions on Automation Science and Engineering, 2019, 16, 253-260.	5.2	24
169	Learning Where to Look While Tracking Instruments in Robot-Assisted Surgery. Lecture Notes in Computer Science, 2019, , 412-420.	1.3	21
170	Hydrogel-Shielded Soft Tactile Sensor for Biocompatible Drug Delivery Monitoring. Journal of Medical Devices, Transactions of the ASME, 2019, 13, .	0.7	16
171	A Review of Printable Flexible and Stretchable Tactile Sensors. Research, 2019, 2019, 3018568.	5.7	100
172	When Stretchable Sensing Meet Flexible Robotics. ECS Meeting Abstracts, 2019, , .	0.0	0
173	(Invited) Optically Innervated Surgical Sensing for Situation-Aware Surgeries. ECS Meeting Abstracts, 2019, , .	0.0	0
174	Simultaneous Robot-World, Sensor-Tip, and Kinematics Calibration of an Underactuated Robotic Hand With Soft Fingers. IEEE Access, 2018, 6, 22705-22715.	4.2	28
175	Electromagnetic Needleless Injector With Halbach Array Towards Intravitreal Delivery. IEEE Access, 2018, 6, 1267-1276.	4.2	4
176	Preliminary development of a skull-mounted lightweight parallel robot toward minimally invasive neurosurgery. , 2018, , .		8
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