

# Hongliang Ren

## List of Publications by Year in descending order

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533  
papers

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26405

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47439

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550  
all docs

550  
docs citations

550  
times ranked

21746  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired Soft Robotics: How Do We Learn From Creatures?. IEEE Reviews in Biomedical Engineering, 2024, 17, 153-165.	18.2	14
2	Confidence-Aware Paced-Curriculum Learning by Label Smoothing for Surgical Scene Understanding. IEEE Transactions on Automation Science and Engineering, 2024, , 1-12.	5.7	0
3	Sim-to-Real Transfer of Soft Robotic Navigation Strategies That Learns From the Virtual Eye-in-Hand Vision. IEEE Transactions on Industrial Informatics, 2024, 20, 2365-2377.	12.1	5
4	Curriculum-Based Augmented Fourier Domain Adaptation for Robust Medical Image Segmentation. IEEE Transactions on Automation Science and Engineering, 2024, , 1-13.	5.7	0
5	Magnetically Actuated Lamina Emergent Mechanism for Bimodal Crawling and Flipping Locomotion. IEEE/ASME Transactions on Mechatronics, 2024, 29, 1500-1510.	6.1	3
6	Lightweight Pneumatically Elastic Backbone Structure with Modular Construction and Nonlinear Interaction for Soft Actuators. Soft Robotics, 2024, 11, 57-69.	8.1	2
7	Modeling and Compensation of Stiffness-Dependent Hysteresis for Stiffness-Tunable Tendon-Sheath Mechanism in Flexible Endoscopic Robots. IEEE Transactions on Industrial Electronics, 2024, 71, 9328-9338.	8.2	3
8	Comprehensive Model of Laminar Jamming Variable Stiffness Driven by Electrostatic Adhesion. IEEE/ASME Transactions on Mechatronics, 2024, 29, 1670-1679.	6.1	1
9	TransFSM: Fetal Anatomy Segmentation and Biometric Measurement in Ultrasound Images Using a Hybrid Transformer. IEEE Journal of Biomedical and Health Informatics, 2024, 28, 285-296.	6.9	6
10	Transendoscopic flexible parallel continuum robotic mechanism for bimanual endoscopic submucosal dissection. International Journal of Robotics Research, 2024, 43, 281-304.	8.8	4
11	Dual-Stroke Soft Peltier Pouch Motor Based on Pipeless Thermo-Pneumatic Actuation. Advanced Engineering Materials, 2024, 26, .	3.5	0
12	Data-Driven Adaptive Distributed Localization of Multi-Agent Systems With Sensor Failure. IEEE Transactions on Industrial Electronics, 2024, 71, 11229-11238.	8.2	1
13	Spatial-Wise Dynamic Distillation for MLP-Like Efficient Visual Fault Detection of Freight Trains. IEEE Transactions on Industrial Electronics, 2024, 71, 13168-13177.	8.2	0
14	A Six-Axis FBG Force/Moment Sensor With Nonlinear Decoupling and Fault Tolerance for Laparoscopic Instruments. IEEE Transactions on Industrial Electronics, 2024, 71, 13384-13394.	8.2	0
15	A Frequency-Modulated Tripedal Soft Magnetic Robot With Diverse Motion Modalities for Ingestible Applications. IEEE Robotics and Automation Letters, 2024, 9, 2168-2175.	5.2	0
16	Data-Driven 3-D Tactile Cues With Intermediate Soft Interfaces Toward Training Needle Insertions. IEEE Sensors Journal, 2024, 24, 7205-7213.	4.8	0
17	Reversible Elastomer-Fluid Transitions for Metamorphosis Robots. Advanced Functional Materials, 2024, 34, .	16.5	1
18	Privacy-Preserving Synthetic Continual Semantic Segmentation for Robotic Surgery. IEEE Transactions on Medical Imaging, 2024, 43, 2291-2302.	9.1	0

#	ARTICLE	IF	CITATIONS
19	Surgical-DINO: adapter learning of foundation models for depth estimation in endoscopic surgery. International Journal of Computer Assisted Radiology and Surgery, 2024, 19, 1013-1020.	2.9	0
20	An Efficient MLP-Based Point-Guided Segmentation Network for Ore Images With Ambiguous Boundary. IEEE Transactions on Industrial Informatics, 2024, 20, 9152-9162.	12.1	0
21	FARN: Fetal Anatomy Reasoning Network for Detection with Global Context Semantic and Local Topology Relationship. IEEE Journal of Biomedical and Health Informatics, 2024, , 1-12.	6.9	1
22	Modular and Fault-Tolerant Three-Axial FBG-Based Force Sensing for Transoral Surgical Robots. IEEE Transactions on Industrial Electronics, 2024, , 1-12.	8.2	0
23	Fully Organic Sensors for Continuous Real-Time Digestion Monitoring. ACS Applied Materials & Interfaces, 2024, 16, 32578-32586.	8.3	0
24	GHMM: Learning Generative Hybrid Mixture Models for Generalized Point Set Registration in Computer-Assisted Orthopedic Surgery. IEEE Transactions on Medical Robotics and Bionics, 2024, , 1-1.	3.3	0
25	Comparative Study of Mechanical Scaling Effects of Origami-Inspired Motion Generation Mechanisms with Multi-Degree Vertices. Actuators, 2024, 13, 266.	2.4	0
26	RASEC: Rescaling Acquisition Strategy With Energy Constraints Under Fusion Kernel for Active Incision Recommendation in Tracheotomy. IEEE Transactions on Automation Science and Engineering, 2024, , 1-15.	5.7	0
27	Needle Trajectory Prediction for Percutaneous Kidney Biopsy in 5G-powered Teleultrasound Navigation System. IEEE Transactions on Mobile Computing, 2024, , 1-14.	6.4	0
28	A Wearable, Reconfigurable, and Modular Magnetic Tracking System for Wireless Capsule Robots. IEEE Transactions on Industrial Informatics, 2024, , 1-12.	12.1	0
29	A Real-Time Self-Sensing Approach to Sensor Array Configuration Fusing Prior Knowledge for Reconfigurable Magnetic Tracking Systems. IEEE/ASME Transactions on Mechatronics, 2024, , 1-12.	6.1	0
30	PneumaOCT: Pneumatic optical coherence tomography endoscopy for targeted distortion-free imaging in tortuous and narrow internal lumens. Science Advances, 2024, 10, .	10.9	0
31	Motor-free telerobotic endomicroscopy for steerable and programmable imaging in complex curved and localized areas. Nature Communications, 2024, 15, .	13.2	0
32	Online Time-Informed Kinodynamic Motion Planning of Nonlinear Systems. IEEE Robotics and Automation Letters, 2024, 9, 9589-9596.	5.2	0
33	Learning Distributed Predictive Control via Spatial-Temporal Games. IEEE Transactions on Industrial Electronics, 2024, , 1-10.	8.2	0
34	EndoDAC: Efficient Adapting Foundation Model for Self-Supervised Depth Estimation from Any Endoscopic Camera. Lecture Notes in Computer Science, 2024, , 208-218.	1.0	0
35	Endo-4DGS: Endoscopic Monocular Scene Reconstruction with 4D Gaussian Splatting. Lecture Notes in Computer Science, 2024, , 197-207.	1.0	0
36	SAVANet: Surgical Action-Driven Visual Attention Network for Autonomous Endoscope Control. IEEE Transactions on Automation Science and Engineering, 2023, 20, 2655-2667.	5.7	5

#	ARTICLE	IF	CITATIONS
37	AMagPoseNet: Real-Time Six-DoF Magnet Pose Estimation by Dual-Domain Few-Shot Learning From Prior Model. IEEE Transactions on Industrial Informatics, 2023, 19, 9722-9732.	12.1	5
38	Robust Position Control of a Continuum Manipulator Based on Selective Approach and Koopman Operator. IEEE Transactions on Industrial Electronics, 2023, 70, 12522-12532.	8.2	6
39	An Overhead Collapsible Origami-Based Mount for Medical Applications. Robotics, 2023, 12, 21.	3.7	2
40	Review on Wearable System for Positioning Ultrasound Scanner. Machines, 2023, 11, 325.	2.3	7
41	Seed Development and Maturation. , 2023, , 17-38.		6
42	Flexible Needle Steering with Tethered and Untethered Actuation: Current States, Targeting Errors, Challenges and Opportunities. Annals of Biomedical Engineering, 2023, 51, 905-924.	2.6	6
43	Design of a Modular 3-D Force Sensor With Fiber Bragg Gratings for Continuum Surgical Robot. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-11.	4.7	3
44	3-D Rigid Point Set Registration for Computer-Assisted Orthopedic Surgery (CAOS): A Review From the Algorithmic Perspective. IEEE Transactions on Medical Robotics and Bionics, 2023, 5, 156-169.	3.3	3
45	Federated Semi-Supervised Learning for Medical Image Segmentation via Pseudo-Label Denoising. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 4672-4683.	6.9	8
46	Fault-Tolerant Six-Axis FBG Force/Moment Sensing for Robotic Interventions. IEEE/ASME Transactions on Mechatronics, 2023, 28, 3537-3550.	6.1	7
47	An RNN-LSTM Enhanced Compact and Affordable Micro Force Sensing System for Interventional Continuum Robots With Interchangeable End-Effector Instruments. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-11.	4.7	3
48	Deployable Parallelogram Mechanism and Constrained Bendable Segment for Flexible Robot toward Transoral Procedures. IEEE Transactions on Medical Robotics and Bionics, 2023, , 1-1.	3.3	1
49	Transformer-based 3D U-Net for pulmonary vessel segmentation and artery-vein separation from CT images. Medical and Biological Engineering and Computing, 2023, 61, 2649-2663.	2.9	3
50	Domain adaptive Sim-to-Real segmentation of oropharyngeal organs. Medical and Biological Engineering and Computing, 2023, 61, 2745-2755.	2.9	3
51	Rethinking exemplars for continual semantic segmentation in endoscopy scenes: Entropy-based mini-batch pseudo-replay. Computers in Biology and Medicine, 2023, 165, 107412.	7.3	1
52	Two-stage contextual transformer-based convolutional neural network for airway extraction from CT images. Artificial Intelligence in Medicine, 2023, 143, 102637.	6.7	6
53	SurgicalGPT: End-to-End Language-Vision GPT for Visual Question Answering in Surgery. Lecture Notes in Computer Science, 2023, , 281-290.	1.0	5
54	Rectifying Noisy Labels with Sequential Prior: Multi-scale Temporal Feature Affinity Learning for Robust Video Segmentation. Lecture Notes in Computer Science, 2023, , 90-100.	1.0	0

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55	Joint Sparse Representations and Coupled Dictionary Learning in Multisource Heterogeneous Image Pseudo-Color Fusion. <i>IEEE Sensors Journal</i> , 2023, 23, 30620-30632.	4.8	1
56	Omnidirectional Steerable Forceps With Flexible Joints and Skin-Like Stretchable Strain Sensors. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 713-724.	6.1	3
57	Highly Stretchable Flame-Retardant Skin for Soft Robotics with Hydrogel-Montmorillonite-Based Translucent Matrix. <i>Soft Robotics</i> , 2022, 9, 98-118.	8.1	11
58	Applications of Robotics, Artificial Intelligence, and Digital Technologies During COVID-19: A Review. <i>Disaster Medicine and Public Health Preparedness</i> , 2022, 16, 1634-1644.	1.5	41
59	RSegNet: A Joint Learning Framework for Deformable Registration and Segmentation. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022, 19, 2499-2513.	5.7	12
60	Concurrently bendable and rotatable continuum tubular robot for omnidirectional multi-core transurethral prostate biopsy. <i>Medical and Biological Engineering and Computing</i> , 2022, 60, 229-238.	2.9	3
61	Soil moisture response to land use and topography across a semi-arid watershed: Implications for vegetation restoration on the Chinese Loess Plateau. <i>Journal of Mountain Science</i> , 2022, 19, 103-120.	2.0	9
62	Magnetically Steerable Serial and Parallel Structures by Mold-Free Origami Templating and Domain Setting. <i>Advanced Materials Technologies</i> , 2022, 7, .	6.2	23
63	Soft Ionic Pressure Sensor with Aloe Vera Gel for Low-Pressure Applications. <i>Micromachines</i> , 2022, 13, 146.	3.0	5
64	Global-Reasoned Multi-Task Learning Model for Surgical Scene Understanding. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 3858-3865.	5.2	19
65	Auto-generating of 2D tessellated crease patterns of 3D biomimetic spring origami structure. <i>Biomimetic Intelligence and Robotics</i> , 2022, 2, 100036.	2.0	2
66	An Active Magnetic Bearing With Controllable Permanent-Magnet Bias Field. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 3474-3481.	6.1	6
67	Chip-Less Real-Time Wireless Sensing of Endotracheal Intubation Tubes by Printing and Mounting Conformable Antenna Tag. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 2369-2376.	5.2	3
68	SIRNet: Fine-Grained Surgical Interaction Recognition. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 4212-4219.	5.2	9
69	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, 236, 583-591.	1.8	1
70	Supporting Technologies for COVID-19 Prevention: Systemized Review. <i>Jmirx Med</i> , 2022, 3, e30344.	0.4	5
71	Printable Kirigami-inspired Flexible and Soft Anthropomorphic Robotic Hand. <i>Journal of Bionic Engineering</i> , 2022, 19, 668-677.	5.1	3
72	Magnetically Deployable Robots Using Layered Lamina Emergent Mechanism. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 14.	2.6	3

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73	Identifying risk factors of intracerebral hemorrhage stability using explainable attention model. Medical and Biological Engineering and Computing, 2022, 60, 337-348.	2.9	4
74	Deployable Tubular Mechanisms Integrated with Magnetic Anchoring and Guidance System. Actuators, 2022, 11, 124.	2.4	3
75	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.	2.0	1
76	Incidence of Needle Stick and Sharp Items Injuries Among Nurses At Al-Kindy Teaching Hospital. Pakistan Journal of Medical and Health Sciences (discontinued), 2022, 16, 961-963.	0.0	0
77	Biomimetic Incremental Domain Generalization with a Graph Network for Surgical Scene Understanding. Biomimetics, 2022, 7, 68.	3.3	1
78	Authors' Responses to Peer Reviews of "Supporting Technologies for COVID-19 Prevention: Systemized Review" Jmirx Med, 2022, 3, e38693.	0.4	0
79	Origami-Inspired Structure with Pneumatic-Induced Variable Stiffness for Multi-DOF Force-Sensing. Sensors, 2022, 22, 5370.	4.0	9
80	A review of bio-inspired needle for percutaneous interventions. Biomimetic Intelligence and Robotics, 2022, 2, 100064.	2.0	6
81	Versatile Motion Generation of Magnetic Origami Spring Robots in the Uniform Magnetic Field. IEEE Robotics and Automation Letters, 2022, 7, 10486-10493.	5.2	13
82	Surgical-VQA: Visual Question Answering in Surgical Scenes Using Transformer. Lecture Notes in Computer Science, 2022, , 33-43.	1.0	10
83	Transformer-Based Disease Identification for Small-Scale Imbalanced Capsule Endoscopy Dataset. Electronics (Switzerland), 2022, 11, 2747.	3.2	19
84	Rethinking Feature Extraction: Gradient-Based Localized Feature Extraction for End-To-End Surgical Downstream Tasks. IEEE Robotics and Automation Letters, 2022, 7, 12623-12630.	5.2	2
85	Auxiliary Modeling of Online Intelligent System of Hotel Management Apprenticeship by SaaS-based Technical Skills Platform. , 2022, , .		1
86	Compliant and Flexible Robotic System with Parallel Continuum Mechanism for Transoral Surgery: A Pilot Cadaveric Study. Robotics, 2022, 11, 135.	3.7	5
87	Stretchable and Compliant Sensing of Strain, Pressure and Vibration of Soft Deformable Structures. Robotics, 2022, 11, 146.	3.7	1
88	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.	5.7	19
89	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.	5.7	13
90	Diversified and Untethered Motion Generation Via Crease Patterning from Magnetically Actuated Caterpillar-Inspired Origami Robot. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1678-1688.	6.1	22

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91	A chromosome-level genome assembly of rice leaffolder, <i>Cnaphalocrocis medinalis</i> . <i>Molecular Ecology Resources</i> , 2021, 21, 561-572.	5.0	18
92	ST-MTL: Spatio-Temporal multitask learning model to predict scanpath while tracking instruments in robotic surgery. <i>Medical Image Analysis</i> , 2021, 67, 101837.	11.8	23
93	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.	4.4	29
94	Class-Incremental Domain Adaptation with Smoothing and Calibration for Surgical Report Generation. <i>Lecture Notes in Computer Science</i> , 2021, , 269-278.	1.0	17
95	Glioma Survival Analysis Empowered With Data Engineering—A Survey. <i>IEEE Access</i> , 2021, 9, 43168-43191.	4.4	29
96	Clavicle bone segmentation from CT images using U-Net-based deep learning algorithm. , 2021, , 205-214.		0
97	A Miniature Manipulator With Variable Stiffness Towards Minimally Invasive Transluminal Endoscopic Surgery. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 5541-5548.	5.2	25
98	Design and control of a novel electromagnetic actuated 3-DoFs micropositioner. <i>Microsystem Technologies</i> , 2021, 27, 3763-3772.	2.1	7
99	Deployable Telescopic Tubular Mechanisms With a Steerable Tongue Depressor Towards Self-Administered Oral Swab. <i>Frontiers in Robotics and AI</i> , 2021, 8, 612959.	3.4	6
100	Shape Tracking of Flexible Morphing Matters From Depth Images. <i>IEEE Sensors Journal</i> , 2021, 21, 8234-8244.	4.8	2
101	A Flexible Transoral Robot Towards COVID-19 Swab Sampling. <i>Frontiers in Robotics and AI</i> , 2021, 8, 612167.	3.4	21
102	ESTADO DE DERECHO, DESARROLLO SOSTENIBLE Y TRANSPARENCIA: DESARROLLO SOSTENIBLE Y TRANSPARENCIA. <i>Revista Direitos Culturais</i> , 2021, 16, 111-119.	0.1	0
103	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.	3.3	9
104	Stretchable Capacitive Pressure Sensing Sleeve Deployable onto Catheter Balloons towards Continuous Intra-Abdominal Pressure Monitoring. <i>Biosensors</i> , 2021, 11, 156.	4.8	23
105	A Triboelectric Tactile Perception Ring for Continuum Robot Collision-Aware. , 2021, , .		0
106	Stretchable and Sensitive Silver Nanowire-Hydrogel Strain Sensors for Proprioceptive Actuation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 37816-37829.	8.3	45
107	Glioblastoma multiforme prognosis: MRI missing modality generation, segmentation and radiogenomic survival prediction. <i>Computerized Medical Imaging and Graphics</i> , 2021, 91, 101906.	6.1	21
108	Multiphysics Simulation of Magnetically Actuated Robotic Origami Worms. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 4923-4930.	5.2	19

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109	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	16
110	Mortality risk in COVID-19 patients with right bundle branch block. Revista Espanola De Cardiologia (English Ed ), 2021, 74, 1122-1124.	0.7	3
111	AI-Assisted CT as a Clinical and Research Tool for COVID-19. Frontiers in Artificial Intelligence, 2021, 4, 590189.	3.6	0
112	Kirigami Strain Sensing on Balloon Catheters with Temporary Tattoo Paper. , 2021, , .		2
113	U-RSNet: An unsupervised probabilistic model for joint registration and segmentation. Neurocomputing, 2021, 450, 264-274.	6.2	13
114	ScoopNet: 6DOF Pose Estimation pipeline for Origami-inspired Worm Robots. , 2021, , .		4
115	Dynamic Piezoelectric Tactile Sensor for Tissue Hardness Measurement Using Symmetrical Flexure Hinges and Anisotropic Vibration Modes. IEEE Sensors Journal, 2021, 21, 17712-17722.	4.8	11
116	Strong, Ultrastretchable Hydrogel-Based Multilayered Soft Actuator Composites Enhancing Biologically Inspired Pumping Systems. Advanced Engineering Materials, 2021, 23, 2100121.	3.5	9
117	Highly Stretchable and Kirigami-Structured Strain Sensors with Long Silver Nanowires of High Aspect Ratio. Machines, 2021, 9, 186.	2.3	6
118	Thermo-Responsive Hydrogel-Based Soft Valves with Annular Actuation Calibration and Circumferential Gripping. Bioengineering, 2021, 8, 127.	3.6	5
119	Mapping Drug-Induced Neuropathy through In-Situ Motor Protein Tracking and Machine Learning. Journal of the American Chemical Society, 2021, 143, 14907-14915.	14.6	11
120	IoT and knowledge Economy: Two Strong Pillars of Industry 4.0. Scientia Cum Industria, 2021, 9, 10-15.	0.1	4
121	Streamlined copper defenses make Bordetella pertussis reliant on custom-made operon. Communications Biology, 2021, 4, 46.	4.5	8
122	Learning Domain Adaptation with Model Calibration for Surgical Report Generation in Robotic Surgery. , 2021, , .		17
123	Origami-Inspired Snap-through Bistability in Parallel and Curved Mechanisms Through the Inflection of Degree Four Vertices. , 2021, , .		8
124	Chip-Less Wireless Sensing of Kirigami Structural Morphing Under Various Mechanical Stimuli Using Home-Based Ink-Jet Printable Materials. , 2021, , .		3
125	Magnetically-Connected Modular Reconfigurable Mini-robotic System with Bilateral Isokinematic Mapping and Fast On-site Assembly towards Minimally Invasive Procedures. , 2021, , .		1
126	Remote-Center-of-Motion Recommendation toward Brain Needle Intervention Using Deep Reinforcement Learning. , 2021, , .		9



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127	Fully-Printable Soft Actuator with Variable Stiffness by Phase Transition and Hydraulic Regulations. <i>Actuators</i> , 2021, 10, 269.	2.4	11
128	A Tubular Dual-Roller Bending Mechanism Toward Robotic Transurethral Prostate Biopsy. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 2483-2494.	6.1	7
129	Effects of cross-flow fan on hydrodynamic and acoustic performance of underwater fan-wing thruster. <i>Ocean Engineering</i> , 2021, 241, 110078.	4.4	1
130	Untethered Origami Worm Robot with Diverse Multi-Leg Attachments and Responsive Motions under Magnetic Actuation. <i>Robotics</i> , 2021, 10, 118.	3.7	9
131	Heuristic orientation adjustment for better exploration in multi-objective optimization. <i>Neural Computing and Applications</i> , 2020, 32, 4757-4771.	5.7	3
132	Statistical Model of Total Target Registration Error in Image-Guided Surgery. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020, 17, 151-165.	5.7	26
133	Disposable FBG-Based Tridirectional Force/Torque Sensor for Aspiration Instruments in Neurosurgery. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 3236-3247.	8.2	36
134	A High-Resolution Triaxial Catheter Tip Force Sensor With Miniature Flexure and Suspended Optical Fibers. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 5101-5111.	8.2	48
135	Evolution and Current Applications of Robot-Assisted Fracture Reduction: A Comprehensive Review. <i>Annals of Biomedical Engineering</i> , 2020, 48, 203-224.	2.6	55
136	Flexible Robot With Variable Stiffness in Transoral Surgery. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 1-10.	6.1	65
137	ACTORS: Adaptive and Compliant Transoral Robotic Surgery With Flexible Manipulators and Intelligent Guidance. , 2020, , 693-701.		3
138	Nitinol actuated soft structures towards transnasal drug delivery: a pilot cadaver study. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 611-623.	2.9	9
139	Additional planning with multiple objectives for reinforcement learning. <i>Knowledge-Based Systems</i> , 2020, 193, 105392.	7.4	12
140	The Feasibility of Using a Smartphone Magnetometer for Assisting Needle Placement. <i>Annals of Biomedical Engineering</i> , 2020, 48, 1147-1156.	2.6	2
141	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.	6.1	37
142	AP-MTL: Attention Pruned Multi-task Learning Model for Real-time Instrument Detection and Segmentation in Robot-assisted Surgery. , 2020, , .		14
143	UKF-Based Motion Estimation of Cable-Driven Forceps for Robot-Assisted Surgical System. <i>IEEE Access</i> , 2020, 8, 94912-94922.	4.4	6
144	Hydrodynamic analyses of an underwater fan-wing thruster in self-driving and towing experiments. Measurement: Journal of the International Measurement Confederation, 2020, 165, 108132.	5.1	10

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145	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.	2.9	6
146	Continuum NasoXplorer manipulator with shape memory actuators for transnasal exploration. , 2020, , 287-316.		1
147	Tunable stiffness using negative Poisson's ratio toward load-bearing continuum tubular mechanisms in medical robotics. , 2020, , 317-358.		2
148	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.	3.4	8
149	Wireless Triaxial Capacitive MXene Strain Sensor with Ultrahigh Sensitivity and Designated Working Windows for Soft Exoskeletons. <i>ACS Nano</i> , 2020, 14, 11860-11875.	15.3	113
150	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.	2.6	3
151	Fully organic compliant dry electrodes self-adhesive to skin for long-term motion-robust epidermal biopotential monitoring. <i>Nature Communications</i> , 2020, 11, 4683.	13.2	287
152	Stent Deployment Detection Using Radio Frequency-Based Sensor and Convolutional Neural Networks. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000092.	6.7	2
153	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	2
154	Radiofrequency tumor ablation system with a wireless or implantable probe. <i>Wireless Power Transfer</i> , 2020, 7, 95-105.	1.1	3
155	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.	2.6	4
156	The role studies of fixed-wings in underwater fan-wing thrusters. <i>Ocean Engineering</i> , 2020, 216, 108049.	4.4	4
157	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.	1.8	9
158	Radiogenomics model for overall survival prediction of glioblastoma. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 1767-1777.	2.9	26
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