Hongliang Ren

List of Publications by Year
in descending order

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533	12,170	26405	47439
papers	citations	56	89
		h-index	g-index

550	550	550	21746
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Plastic ingestion by pelagic and demersal fish from the North Sea and Baltic Sea. Marine Pollution Bulletin, 2016, 102, 134-141.	5.0	495
2	Human postnatal dental pulp cells co-differentiate into osteoblasts and endotheliocytes: a pivotal synergy leading to adult bone tissue formation. Cell Death and Differentiation, 2007, 14, 1162-1171.	11.3	453
3	Finite Time Fault Tolerant Control for Robot Manipulators Using Time Delay Estimation and Continuous Nonsingular Fast Terminal Sliding Mode Control. IEEE Transactions on Cybernetics, 2017, 47, 1681-1693.	10.1	353
4	Fully organic compliant dry electrodes self-adhesive to skin for long-term motion-robust epidermal biopotential monitoring. Nature Communications, 2020, 11, 4683.	13.2	287
5	Shape Sensing Techniques for Continuum Robots in Minimally Invasive Surgery: A Survey. IEEE Transactions on Biomedical Engineering, 2017, 64, 1665-1678.	4.4	282
6	Patterns of cervical node metastases from squamous carcinoma of the oropharynx and hypopharynx. Head and Neck, 1990, 12, 197-203.	2.0	246
7	Asymmetric DNA bending in the Cre-loxP site-specific recombination synapse. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 7143-7148.	7.6	186
8	Hydrogel Actuators and Sensors for Biomedical Soft Robots: Brief Overview with Impending Challenges. Biomimetics, 2018, 3, 15.	3.3	182
9	Investigation of Attitude Tracking Using an Integrated Inertial and Magnetic Navigation System for Hand-Held Surgical Instruments. IEEE/ASME Transactions on Mechatronics, 2012, 17, 210-217.	6.1	151
10	Kinematic comparison of surgical tendon-driven manipulators and concentric tube manipulators. Mechanism and Machine Theory, 2017, 107, 148-165.	4.7	140
11	Global insights into high temperature and drought stress regulated genes by RNA-Seq in economically important oilseed crop Brassica juncea. BMC Plant Biology, 2015, 15, 9.	3.7	128
12	Metal ion binding sites in a group II intron core. Nature Structural Biology, 2000, 7, 1111-1116.	8.1	125
13	Target recognition in synthetic aperture radar images via nonâ€negative matrix factorisation. IET Radar, Sonar and Navigation, 2015, 9, 1376-1385.	1.7	123
14	ISLES 2016 and 2017-Benchmarking Ischemic Stroke Lesion Outcome Prediction Based on Multispectral MRI. Frontiers in Neurology, 2018, 9, 679.	2.5	122
15	Wireless Ti₃C₂T_x MXene Strain Sensor with Ultrahigh Sensitivity and Designated Working Windows for Soft Exoskeletons. ACS Nano, 2020, 14, 11860-11875.	15.3	113
16	A fuzzy rough number-based AHP-TOPSIS for design concept evaluation under uncertain environments. Applied Soft Computing Journal, 2020, 91, 106228.	7.4	113
17	A Review of Printable Flexible and Stretchable Tactile Sensors. Research, 2019, 2019, 3018568.	5.9	111
18	Measurement of the centrality dependence of the charged particle pseudorapidity distribution in leadâ€“lead collisions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msqrt><mml:msub><mml:mrow><mml:mi>s</mml:mi></mml:mrow><mml:mrow><mml:mi mathvariant="normal">NN</mml:mi></mml:mrow></mml:msub></mml:msqrt><mml:mo>=</mml:mo><mml:mn>2.76</mml:mn><mml:mtext>TeV</mml:mtext></mml:math> with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 363-382.	4.1	110

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19	Stretchable Graphene Pressure Sensors with Shar-Pei-like Hierarchical Wrinkles for Collision-Aware Surgical Robotics. ACS Applied Materials & Interfaces, 2019, 11, 10226-10236.	8.3	110
20	Fabricating biomedical origami: a state-of-the-art review. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 2023-2032.	2.9	104
21	Topology Optimized Design, Fabrication, and Characterization of a Soft Cable-Driven Gripper. IEEE Robotics and Automation Letters, 2018, 3, 2463-2470.	5.2	103
22	Electromagnetic Positioning for Tip Tracking and Shape Sensing of Flexible Robots. IEEE Sensors Journal, 2015, 15, 4565-4575.	4.8	101
23	A novel constrained wire-driven flexible mechanism and its kinematic analysis. Mechanism and Machine Theory, 2016, 95, 59-75.	4.7	101
24	Development of a Multi-Channel Concentric Tube Robotic System With Active Vision for Transnasal Nasopharyngeal Carcinoma Procedures. IEEE Robotics and Automation Letters, 2016, 1, 1172-1178.	5.2	95
25	Bariatric Surgery and Emergency Department Visits and Hospitalizations forÂHeart Failure Exacerbation. Journal of the American College of Cardiology, 2016, 67, 895-903.	5.6	95
26	6-D Magnetic Localization and Orientation Method for an Annular Magnet Based on a Closed-Form Analytical Model. IEEE Transactions on Magnetics, 2014, 50, 1-11.	2.2	94
27	A bioinspired analogous nerve towards artificial intelligence. Nature Communications, 2020, 11, 268.	13.2	93
28	Self-Correction of Commutation Point for High-Speed Sensorless BLDC Motor With Low Inductance and Nonideal Back EMF. IEEE Transactions on Power Electronics, 2017, 32, 642-651.	8.1	92
29	Ovarian protection with gonadotropin-releasing hormone agonists during chemotherapy in cancer patients: From biological evidence to clinical application. Cancer Treatment Reviews, 2019, 72, 65-77.	8.0	92
30	A Minimal POE-Based Model for Robotic Kinematic Calibration With Only Position Measurements. IEEE Transactions on Automation Science and Engineering, 2015, 12, 758-763.	5.7	87
31	A Miniature Soft Robotic Manipulator Based on Novel Fabrication Methods. IEEE Robotics and Automation Letters, 2016, 1, 617-623.	5.2	86
32	A High-Sensitivity Tactile Sensor Array Based on Fiber Bragg Grating Sensing for Tissue Palpation in Minimally Invasive Surgery. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2306-2315.	6.1	80
33	Deep Reinforcement Learning for Soft, Flexible Robots: Brief Review with Impending Challenges. Robotics, 2019, 8, 4.	3.7	80
34	Multisensor Data Fusion in an Integrated Tracking System for Endoscopic Surgery. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 106-111.	3.4	79
35	Real-Time Instrument Segmentation in Robotic Surgery Using Auxiliary Supervised Deep Adversarial Learning. IEEE Robotics and Automation Letters, 2019, 4, 2188-2195.	5.2	78
36	Shape reconstruction for wire-driven flexible robots based on BÃ©zier curve and electromagnetic positioning. Mechatronics, 2015, 29, 28-35.	3.4	76

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37	Finding the Kinematic Base Frame of a Robot by Hand-Eye Calibration Using 3D Position Data. IEEE Transactions on Automation Science and Engineering, 2017, 14, 314-324.	5.7	76
38	Actin-based motility of Burkholderia pseudomallei involves the Arp 2/3 complex, but not N-WASP and Ena/VASP proteins. Cellular Microbiology, 2003, 5, 385-393.	2.3	74
39	Game-Theoretic Modeling of Joint Topology Control and Power Scheduling for Wireless Heterogeneous Sensor Networks. IEEE Transactions on Automation Science and Engineering, 2009, 6, 610-625.	5.7	74
40	Robust Fault-Tolerant Control for a Class of Second-Order Nonlinear Systems Using an Adaptive Third-Order Sliding Mode Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, , 1-8.	9.7	73
41	Computer-Assisted Transoral Surgery with Flexible Robotics and Navigation Technologies: A Review of Recent Progress and Research Challenges. Critical Reviews in Biomedical Engineering, 2013, 41, 365-391.	1.0	72
42	Overall survival prediction in glioblastoma multiforme patients from volumetric, shape and texture features using machine learning. Surgical Oncology, 2018, 27, 709-714.	1.8	71
43	Behavioral treatment of insomnia: a clinical case series study. Journal of Behavioral Medicine, 2000, 23, 149-161.	2.2	70
44	Active Balancing Control of AMB-Rotor Systems Using a Phase-Shift Notch Filter Connected in Parallel Mode. IEEE Transactions on Industrial Electronics, 2016, 63, 3777-3785.	8.2	70
45	Simultaneous Handâ€“Eye, Toolâ€“Flange, and Robotâ€“Robot Calibration for Comanipulation by Solving the <inline-formula> <tex-math notation="LaTeX">$mathbf{AXB=YCZ}$</tex-math> </inline-formula> Problem. IEEE Transactions on Robotics, 2016, 32, 413-428.	11.3	68
46	Power Adaptive Localization Algorithm for Wireless Sensor Networks Using Particle Filter. IEEE Transactions on Vehicular Technology, 2009, 58, 2498-2508.	6.7	66
47	Type-2 Fuzzy Modeling and Control for Bilateral Teleoperation System With Dynamic Uncertainties and Time-Varying Delays. IEEE Transactions on Industrial Electronics, 2018, 65, 447-459.	8.2	65
48	Flexible Robot With Variable Stiffness in Transoral Surgery. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1-10.	6.1	65
49	Motion Planning Based on Learning From Demonstration for Multiple-Segment Flexible Soft Robots Actuated by Electroactive Polymers. IEEE Robotics and Automation Letters, 2016, 1, 391-398.	5.2	63
50	Use of health services among international migrant children â€“ a systematic review. Globalization and Health, 2018, 14, 52.	5.2	62
51	Three-Dimensional Catheter Distal Force Sensing for Cardiac Ablation Based on Fiber Bragg Grating. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2316-2327.	6.1	62
52	A Robotic System With Multichannel Flexible Parallel Manipulators for Single Port Access Surgery. IEEE Transactions on Industrial Informatics, 2019, 15, 1678-1687.	12.1	62
53	Brain Tumor Segmentation and Survival Prediction Using 3D Attention UNet. Lecture Notes in Computer Science, 2020, , 262-272.	1.0	62
54	Optimizing Double-Network Hydrogel for Biomedical Soft Robots. Soft Robotics, 2017, 4, 191-201.	8.1	60

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55	Passive Markers for Tracking Surgical Instruments in Real-Time 3-D Ultrasound Imaging. IEEE Transactions on Medical Imaging, 2012, 31, 563-575.	9.1	59
56	Intensity-Based Visual Servoing for Instrument and Tissue Tracking in 3D Ultrasound Volumes. IEEE Transactions on Automation Science and Engineering, 2015, 12, 367-371.	5.7	59
57	Sensor Fusion of Leap Motion Controller and Flex Sensors Using Kalman Filter for Human Finger Tracking. IEEE Sensors Journal, 2018, 18, 2042-2049.	4.8	57
58	Single-Motor Controlled Tendon-Driven Peristaltic Soft Origami Robot. Journal of Mechanisms and Robotics, 2018, 10, .	2.3	57
59	Diaphragm-Free Fiber-Optic Fabry-Perot Interferometric Gas Pressure Sensor for High Temperature Application. Sensors, 2018, 18, 1011.	4.0	57
60	Multifunctional metallic backbones for origami robotics with strain sensing and wireless communication capabilities. Science Robotics, 2019, 4, .	18.0	57
61	Fault-Tolerant Inverter for High-Speed Low-Inductance BLDC Drives in Aerospace Applications. IEEE Transactions on Power Electronics, 2017, 32, 2452-2463.	8.1	56
62	Development of a compact continuum tubular robotic system for nasopharyngeal biopsy. Medical and Biological Engineering and Computing, 2017, 55, 403-417.	2.9	55
63	Evolution and Current Applications of Robot-Assisted Fracture Reduction: A Comprehensive Review. Annals of Biomedical Engineering, 2020, 48, 203-224.	2.6	55
64	Evolution of robotic systems for transoral head and neck surgery. Oral Oncology, 2018, 87, 82-88.	1.9	54
65	Treatment Planning and Image Guidance for Radiofrequency Ablation of Large Tumors. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 920-928.	6.9	53
66	A Novel 4-DOF Hybrid Magnetic Bearing for DGMSCMG. IEEE Transactions on Industrial Electronics, 2017, 64, 2196-2204.	8.2	52
67	Variability in protein binding of teicoplanin and achievement of therapeutic drug monitoring targets in critically ill patients: Lessons from the DALI Study. International Journal of Antimicrobial Agents, 2014, 43, 423-430.	3.3	51
68	Liquid sloshing in a two-dimensional rectangular tank: A numerical investigation with a T-shaped baffle. Ocean Engineering, 2019, 187, 106183.	4.4	51
69	Effect of Chronic Restraint Stress on Human Colorectal Carcinoma Growth in Mice. PLoS ONE, 2013, 8, e61435.	2.5	50
70	An Efficient Magnetic Tracking Method Using Uniaxial Sensing Coil. IEEE Transactions on Magnetics, 2014, 50, 1-7.	2.2	50
71	No-reference blur assessment based on edge modeling. Journal of Visual Communication and Image Representation, 2015, 29, 1-7.	2.9	50
72	A Novel Fiber Bragg Grating Displacement Sensor With a Sub-Micrometer Resolution. IEEE Photonics Technology Letters, 2017, 29, 1199-1202.	2.5	49

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73	Dataâ€driven methods towards learning the highly nonlinear inverse kinematics of tendonâ€driven surgical manipulators. International Journal of Medical Robotics and Computer Assisted Surgery, 2017, 13, e1774.	2.4	48
74	A High-Resolution Triaxial Catheter Tip Force Sensor With Miniature Flexure and Suspended Optical Fibers. IEEE Transactions on Industrial Electronics, 2020, 67, 5101-5111.	8.2	48
75	Design, characterization and applications of a novel soft actuator driven by flexible shafts. Mechanism and Machine Theory, 2018, 122, 197-218.	4.7	47
76	Effect of harvest maturity on pectic substances, internal conductivity, soluble solids and gel breakdown in cold stored â€˜Songoldâ€™ plums. Postharvest Biology and Technology, 1995, 5, 285-294.	6.1	45
77	Stretchable and Sensitive Silver Nanowire-Hydrogel Strain Sensors for Proprioceptive Actuation. ACS Applied Materials & Interfaces, 2021, 13, 37816-37829.	8.3	45
78	A Liquid-Phase Approach to Functionalized Janus Dendrimers:Â Novel Soluble Supports for Organic Synthesis. Organic Letters, 2007, 9, 2261-2264.	4.8	44
79	Biogeography-based particle swarm optimization with fuzzy elitism and its applications to constrained engineering problems. Engineering Optimization, 2014, 46, 1465-1484.	2.6	43
80	Applications of Wireless Power Transfer in Medicine: State-of-the-Art Reviews. Annals of Biomedical Engineering, 2019, 47, 22-38.	2.6	43
81	A Compliant Transoral Surgical Robotic System Based on a Parallel Flexible Mechanism. Annals of Biomedical Engineering, 2019, 47, 1329-1344.	2.6	42
82	ROBOTICS IN NATURAL ORIFICE TRANSLUMINAL ENDOSCOPIC SURGERY. Journal of Mechanics in Medicine and Biology, 2013, 13, 1350044.	0.7	41
83	A Novel Tele-Operated Flexible Robot Targeted for Minimally Invasive Robotic Surgery. Engineering, 2015, 1, 073-078.	7.3	41
84	Applications of Robotics, Artificial Intelligence, and Digital Technologies During COVID-19: A Review. Disaster Medicine and Public Health Preparedness, 2022, 16, 1634-1644.	1.5	41
85	Physiological information acquisition through wireless biomedical sensor networks. , 0, , .		40
86	A Cable-Driven Flexible Robotic Grasper With Lego-Like Modular and Reconfigurable Joints. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2757-2767.	6.1	40
87	Three-Dimensional Intravascular Reconstruction Techniques Based on Intravascular Ultrasound: A Technical Review. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 806-817.	6.9	40
88	Differential Roles of Lck and Itk in T Cell Response to Antigen Recognition Revealed by Calcium Imaging and Electron Microscopy. Journal of Immunology, 2001, 166, 5540-5549.	0.8	39
89	A High-Sensitivity Fiber Bragg Grating Displacement Sensor Based on Transverse Property of a Tensioned Optical Fiber Configuration and Its Dynamic Performance Improvement. IEEE Sensors Journal, 2017, 17, 5840-5848.	4.8	39
90	Crumpling and Unfolding of Montmorillonite Hybrid Nanocoatings as Stretchable Flameâ€Retardant Skin. Small, 2018, 14, e1800596.	11.2	39

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91	SOFT ROBOTICS WITH COMPLIANCE AND ADAPTATION FOR BIOMEDICAL APPLICATIONS AND FORTHCOMING CHALLENGES. International Journal of Robotics and Automation, 2018, 33, .	0.1	39
92	A diaphragm type fiber Bragg grating vibration sensor based on transverse property of optical fiber with temperature compensation. IEEE Sensors Journal, 2016, , 1-1.	4.8	38
93	Fault Diagnosis in Image-Based Visual Servoing With Eye-in-Hand Configurations Using Kalman Filter. IEEE Transactions on Industrial Informatics, 2016, 12, 1998-2007.	12.1	38
94	Design of a Novel Flexible Endoscopeâ€"Cardioscope. Journal of Mechanisms and Robotics, 2016, 8, .	2.3	38
95	Surgical Instrument Tracking By Multiple Monocular Modules and a Sensor Fusion Approach. IEEE Transactions on Automation Science and Engineering, 2019, 16, 629-639.	5.7	38
96	A Flexible Fabrication Approach Toward the Shape Engineering of Microscale Soft Pneumatic Actuators. IEEE Robotics and Automation Letters, 2017, 2, 165-170.	5.2	37
97	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.	6.1	37
98	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.	5.7	37
99	Advances in Haptics, Tactile Sensing, and Manipulation for Robot-Assisted Minimally Invasive Surgery, Noninvasive Surgery, and Diagnosis. Journal of Robotics, 2012, 2012, 1-14.	1.0	36
100	Disposable FBG-Based Tridirectional Force/Torque Sensor for Aspiration Instruments in Neurosurgery. IEEE Transactions on Industrial Electronics, 2020, 67, 3236-3247.	8.2	36
101	Origami-Layer-Jamming Deployable Surgical Retractor With Variable Stiffness and Tactile Sensing. Journal of Mechanisms and Robotics, 2020, 12, .	2.3	36
102	Statics modeling of an underactuated wire-driven flexible robotic arm. , 2014, , .		34
103	Origami-inspired bi-directional soft pneumatic actuator with integrated variable stiffness mechanism. , 2017, , .		34
104	A Millinewton Resolution Fiber Bragg Grating-Based Catheter Two-Dimensional Distal Force Sensor for Cardiac Catheterization. IEEE Sensors Journal, 2018, 18, 1539-1546.	4.8	34
105	Towards simultaneous coordinate calibrations for cooperative multiple robots. , 2014, , .		33
106	Graphene Oxide-Enabled Synthesis of Metal Oxide Origamis for Soft Robotics. ACS Nano, 2019, 13, 5410-5420.	15.3	33
107	Safety-Enhanced Model-Free Visual Servoing for Continuum Tubular Robots Through Singularity Avoidance in Confined Environments. IEEE Access, 2019, 7, 21539-21558.	4.4	32
108	Coverage planning in computer-assisted ablation based on Genetic Algorithm. Computers in Biology and Medicine, 2014, 49, 36-45.	7.3	31

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109	Towards Occlusion-Free Surgical Instrument Tracking: A Modular Monocular Approach and an Agile Calibration Method. IEEE Transactions on Automation Science and Engineering, 2015, 12, 588-595.	5.7	31
110	Facile synthesis of self-assembled polyaniline nanorods doped with sulphuric acid for high-performance supercapacitors. Vacuum, 2017, 143, 63-70.	3.5	31
111	Safety-Enhanced Motion Planning for Flexible Surgical Manipulator Using Neural Dynamics. IEEE Transactions on Control Systems Technology, 2017, 25, 1711-1723.	5.4	31
112	Simultaneous Robot-World, Sensor-Tip, and Kinematics Calibration of an Underactuated Robotic Hand With Soft Fingers. IEEE Access, 2018, 6, 22705-22715.	4.4	30
113	Multilateral Teleoperation With New Cooperative Structure Based on Reconfigurable Robots and Type-2 Fuzzy Logic. IEEE Transactions on Cybernetics, 2019, 49, 2845-2859.	10.1	30
114	MR-Conditional SMA-Based Origami Joint. IEEE/ASME Transactions on Mechatronics, 2019, 24, 883-888.	6.1	30
115	Bioinspired Soft Actuators for Eyeball Motions in Humanoid Robots. IEEE/ASME Transactions on Mechatronics, 2019, 24, 100-108.	6.1	30
116	The involvement of distinct neural systems in patients with obsessiveâ€“compulsive disorder with autogenous and reactive obsessions. Acta Psychiatrica Scandinavica, 2011, 124, 141-151.	4.5	29
117	Kinematic Analysis and Motion Control of Wheeled Mobile Robots in Cylindrical Workspaces. IEEE Transactions on Automation Science and Engineering, 2016, 13, 1207-1214.	5.7	29
118	Hydrogel-matrix encapsulated Nitinol actuation with self-cooling mechanism. RSC Advances, 2019, 9, 34244-34255.	3.7	29
119	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.	4.4	29
120	Glioma Survival Analysis Empowered With Data Engineeringâ€”A Survey. IEEE Access, 2021, 9, 43168-43191.	4.4	29
121	Biologically Inspired Approaches for Wireless Sensor Networks. , 2006, , .		28
122	The effect of combined hypergravity and microgrooved surface topography on the behaviour of fibroblasts. Cytoskeleton, 2006, 63, 384-394.	3.1	27
123	Tubular Enhanced Geodesic Active Contours for continuum robot detection using 3D ultrasound. , 2012, , .		27
124	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.	8.3	27
125	Layer-Jamming Suction Grippers With Variable Stiffness. Journal of Mechanisms and Robotics, 2019, 11, .	2.3	27
126	Towards transferring skills to flexible surgical robots with programming by demonstration and reinforcement learning. , 2016, , .		26

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127	Electromagnetically Enhanced Soft and Flexible Bend Sensor: A Quantitative Analysis With Different Cores. IEEE Sensors Journal, 2018, 18, 3580-3589.	4.8	26
128	Real-Time 6DOF Pose Estimation of Endoscopic Instruments Using Printable Markers. IEEE Sensors Journal, 2019, 19, 2338-2346.	4.8	26
129	Ultrasound-Assisted Guidance With Force Cues for Intravascular Interventions. IEEE Transactions on Automation Science and Engineering, 2019, 16, 253-260.	5.7	26
130	Statistical Model of Total Target Registration Error in Image-Guided Surgery. IEEE Transactions on Automation Science and Engineering, 2020, 17, 151-165.	5.7	26
131	Radiogenomics model for overall survival prediction of glioblastoma. Medical and Biological Engineering and Computing, 2020, 58, 1767-1777.	2.9	26
132	Dynamic decoupling control of DGCMG gimbal system via state feedback linearization. Mechatronics, 2016, 36, 127-135.	3.4	25
133	Specific Photothermal Ablation Therapy of Endometriosis by Targeting Delivery of Gold Nanospheres. Small, 2017, 13, 1603270.	11.2	25
134	A Miniature Manipulator With Variable Stiffness Towards Minimally Invasive Transluminal Endoscopic Surgery. IEEE Robotics and Automation Letters, 2021, 6, 5541-5548.	5.2	25
135	Detection of curved robots using 3D ultrasound. , 2011, 2011, 2083-2089.		24
136	Marker-Based Surgical Instrument Tracking Using Dual Kinect Sensors. IEEE Transactions on Automation Science and Engineering, 2013, , 1-4.	5.7	24
137	Intraoperative magnetic resonance imagingâ€“conditional robotic devices for therapy and diagnosis. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 303-318.	1.8	24
138	Endoscope Navigation and 3D Reconstruction of Oral Cavity by Visual SLAM with Mitigated Data Scarcity. , 2018, , .		24
139	A Skull-Mounted Robot with a Compact and Lightweight Parallel Mechanism for Positioning in Minimally Invasive Neurosurgery. Annals of Biomedical Engineering, 2018, 46, 1465-1478.	2.6	23
140	Dietary administration of ferula (Ferula asafoetida) powder as a feed additive in diet of koi carp, Cyprinus carpio koi: effects on hemato-immunological parameters, mucosal antibacterial activity, digestive enzymes, and growth performance. Fish Physiology and Biochemistry, 2019, 45, 1277-1288.	2.3	23
141	Realâ€time surgical instrument tracking in robotâ€assisted surgery using multiâ€domain convolutional neural network. Healthcare Technology Letters, 2019, 6, 159-164.	3.4	23
142	Ultrasound needle segmentation and trajectory prediction using excitation network. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 437-443.	2.9	23
143	ST-MTL: Spatio-Temporal multitask learning model to predict scanpath while tracking instruments in robotic surgery. Medical Image Analysis, 2021, 67, 101837.	11.8	23
144	Stretchable Capacitive Pressure Sensing Sleeve Deployable onto Catheter Balloons towards Continuous Intra-Abdominal Pressure Monitoring. Biosensors, 2021, 11, 156.	4.8	23

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145	Learning Where to Look While Tracking Instruments in Robot-Assisted Surgery. Lecture Notes in Computer Science, 2019, , 412-420.	1.0	23
146	Learning and Reasoning with the Graph Structure Representation in Robotic Surgery. Lecture Notes in Computer Science, 2020, , 627-636.	1.0	23
147	Magnetically Steerable Serial and Parallel Structures by Moldâ€Free Origami Templating and Domain Setting. Advanced Materials Technologies, 2022, 7, .	6.2	23
148	An image based targeting method to guide a tentacle-like curvilinear concentric tube robot. , 2014, , .		22
149	An Improved Magnetic Tracking Method Using Rotating Uniaxial Coil With Sparse Points and Closed Form Analytic Solution. IEEE Sensors Journal, 2014, 14, 3585-3592.	4.8	22
150	Directional flow sensing by passively stable larvae. Journal of Experimental Biology, 2015, 218, 2782-2792.	1.7	22
151	Search for the Standard Model Higgs boson decaying into b b Â¯ $$ boverline{b} $$ produced in association with top quarks decaying hadronically in pp collisions at s = 8 $$ sqrt{s}=8 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.8	22
152	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
153	A Paired-Orientation Alignment Problem in a Hybrid Tracking System for Computer Assisted Surgery. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 63, 151-161.	3.5	21
154	A Flexible Transoral Robot Towards COVID-19 Swab Sampling. Frontiers in Robotics and AI, 2021, 8, 612167.	3.4	21
155	Glioblastoma multiforme prognosis: MRI missing modality generation, segmentation and radiogenomic survival prediction. Computerized Medical Imaging and Graphics, 2021, 91, 101906.	6.1	21
156	Simultaneous Temperature Compensation and Synchronous Error Elimination for Axial Displacement Sensors Using an Auxiliary Probe. IEEE Transactions on Industrial Electronics, 2016, 63, 3179-3186.	8.2	20
157	Fabrication and Comparative Study on Sensing Characteristics of Soft Textile-Layered Tactile Sensors. , 2017, 1, 1-4.		20
158	Soft Tactile Sensors With Inkjet-Printing Conductivity and Hydrogel Biocompatibility for Retractors in Cadaveric Surgical Trials. IEEE Sensors Journal, 2018, 18, 9840-9847.	4.8	20
159	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.	5.7	20
160	ICHNet: Intracerebral Hemorrhage (ICH) Segmentation Using Deep Learning. Lecture Notes in Computer Science, 2019, , 456-463.	1.0	20
161	Novel Feedback Bit Allocation Methods for Multi-Cell Joint Processing Systems. IEEE Transactions on Wireless Communications, 2012, 11, 3030-3036.	10.1	19
162	Motion planning of continuum tubular robots based on centerlines extracted from statistical atlas. , 2015, , .		19

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163	A novel constrained tendon-driven serpentine manipulator. , 2015, , .		19
164	Soft Robotics in Medical Applications. Journal of Medical Robotics Research, 2018, 03, 1841006.	1.3	19
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