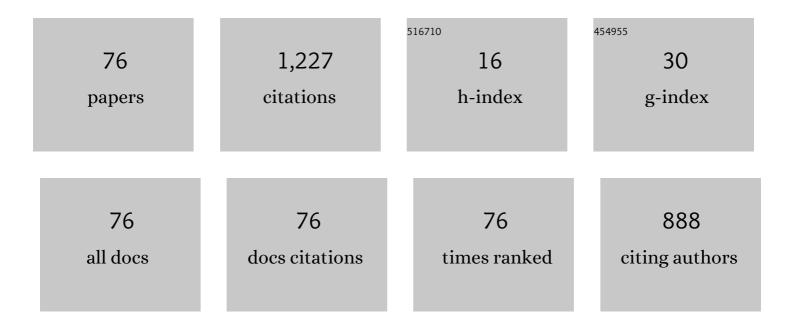
Zhenglong Sun

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A sub-millimetric, 0.25 mN resolution fully integrated fiber-optic force-sensing tool for retinal microsurgery. International Journal of Computer Assisted Radiology and Surgery, 2009, 4, 383-390.	2.8	158
2	Robot-Assisted Endoscopic Submucosal Dissection Is Effective in Treating Patients With Early-Stage Gastric Neoplasia. Clinical Gastroenterology and Hepatology, 2012, 10, 1117-1121.	4.4	117
3	Master and slave transluminal endoscopic robot (MASTER) for natural Orifice Transluminal Endoscopic Surgery (NOTES). , 2009, 2009, 1192-5.		89
4	Robotic system for noâ€scar gastrointestinal surgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2008, 4, 15-22.	2.3	84
5	Feasibility of full-thickness gastric resection using master and slave transluminal endoscopic robot and closure by overstitch: a preclinical study. Surgical Endoscopy and Other Interventional Techniques, 2014, 28, 319-324.	2.4	64
6	Endoscopic submucosal dissection of gastric lesions by using a master and slave transluminal endoscopic robot: an animal survival study. Endoscopy, 2012, 44, 690-694.	1.8	62
7	Natural orifice transgastric endoscopic wedge hepatic resection in an experimental model using an intuitively controlled master and slave transluminal endoscopic robot (MASTER). Surgical Endoscopy and Other Interventional Techniques, 2010, 24, 2293-2298.	2.4	61
8	Elongation Modeling and Compensation for the Flexible Tendon–Sheath System. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1243-1250.	5.8	59
9	Design of a master and slave transluminal endoscopic robot for natural orifice transluminal endoscopic surgery. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2010, 224, 1495-1503.	2.1	42
10	Haptic feedback and control of a flexible surgical endoscopic robot. Computer Methods and Programs in Biomedicine, 2013, 112, 260-271.	4.7	42
11	Design and Control of a Highly Redundant Rigid-flexible Coupling Robot to Assist the COVID-19 Oropharyngeal-Swab Sampling. IEEE Robotics and Automation Letters, 2022, 7, 1856-1863.	5.1	39
12	Estimation of Foot Plantar Center of Pressure Trajectories with Low-Cost Instrumented Insoles Using an Individual-Specific Nonlinear Model. Sensors, 2018, 18, 421.	3.8	30
13	Modeling tendon-sheath mechanism with flexible configurations for robot control. Robotica, 2013, 31, 1131-1142.	1.9	28
14	Modeling and motion compensation of a bidirectional tendon-sheath actuated system for robotic endoscopic surgery. Computer Methods and Programs in Biomedicine, 2015, 119, 77-87.	4.7	28
15	Towards Fully Autonomous Ultrasound Scanning Robot With Imitation Learning Based on Clinical Protocols. IEEE Robotics and Automation Letters, 2021, 6, 3671-3678.	5.1	24
16	A collaborative robot for COVID-19 oropharyngeal swabbing. Robotics and Autonomous Systems, 2022, 148, 103917.	5.1	19
17	A Non-invasive Real-time Localization System for Enhanced Efficacy in Nasogastric Intubation. Annals of Biomedical Engineering, 2015, 43, 2941-2952.	2.5	18
18	Passive magnetic-based localization for precise untethered medical instrument tracking. Computer Methods and Programs in Biomedicine, 2018, 156, 151-161.	4.7	16

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#	Article	IF	CITATIONS
19	A Hybrid Field Model for Enhanced Magnetic Localization and Position Control. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1278-1287.	5.8	15
20	Enhancement of a master-slave robotic system for natural orifice transluminal endoscopic surgery. Annals of the Academy of Medicine, Singapore, 2011, 40, 223-30.	0.4	14
21	Joint Torque Estimation toward Dynamic and Compliant Control for Gear-Driven Torque Sensorless Quadruped Robot. , 2019, , .		13
22	CCRobot-III: a Split-type Wire-driven Cable Climbing Robot for Cable-stayed Bridge Inspection. , 2020, , .		13
23	DiPE: Deeper into Photometric Errors for Unsupervised Learning of Depth and Ego-motion from Monocular Videos. , 2020, , .		13
24	Intention Understanding in Human–Robot Interaction Based on Visual-NLP Semantics. Frontiers in Neurorobotics, 2020, 14, 610139.	2.8	12
25	Unsupervised Monocular Depth Perception: Focusing on Moving Objects. IEEE Sensors Journal, 2021, 21, 27225-27237.	4.7	11
26	A System-of-Systems Bio-Inspired Design Process: Conceptual Design and Physical Prototype of a Reconfigurable Robot Capable of Multi-Modal Locomotion. Frontiers in Neurorobotics, 2019, 13, 78.	2.8	10
27	The future of transluminal surgery. Expert Review of Medical Devices, 2011, 8, 669-671.	2.8	9
28	A Novel Design of Water-Activated Variable Stiffness Endoscopic Manipulator with Safe Thermal Insulation. Actuators, 2021, 10, 130.	2.3	9
29	OceanVoy: A Hybrid Energy Planning System for Autonomous Sailboat. , 2020, , .		9
30	Development and preliminary data of novel integrated optical micro-force sensing tools for retinal microsurgery. , 2009, , .		8
31	Design and analysis of a compliant non-invasive real-time localization system for nasogastric intubation. , 2014, , .		8
32	BORM: Bayesian Object Relation Model for Indoor Scene Recognition. , 2021, , .		7
33	A Soft Robotic Intervention for Gait Enhancement in Older Adults. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1838-1847.	4.9	6
34	Enhancement of spatial orientation and haptic perception for master-slave robotic Natural Orifice Transluminal Endoscopic Surgery (NOTES). , 2010, , .		5
35	Using heterogeneous sensory measurements in a compliant magnetic localization system for medical intervention. , 2015, , .		5
36	Long-range Hand Gesture Recognition with Joint SSD Network. , 2018, , .		5

36 Long-range Hand Gesture Recognition with Joint SSD Network. , 2018, , .

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#	Article	IF	CITATIONS
37	Modular design of a real-time passive magnetic localization system for enhanced safety in nasogastric intubation. , 2016, , .		4
38	Real Time Obstacle Estimation Based on Dense Stereo Vision for Robotic Lawn Mowers. , 2019, , .		4
39	Master and Slave Robotic System For Natural Orifice Transluminal Endoscopic Surgery. , 2008, , .		3
40	Towards haptics enabled surgical robotic system for NOTES. , 2011, , .		3
41	Force feedback without sensor: A preliminary study on haptic modeling. , 2012, , .		3
42	High Accuracy Passive Magnetic Field-Based Localization for Feedback Control Using Principal Component Analysis. Sensors, 2016, 16, 1280.	3.8	3
43	Passive Magnetic Localization in Medical Intervention. Series in Bioengineering, 2018, , 163-187.	0.6	3
44	Learning and Generation of Personal Handwriting Style Chinese Font. , 2018, , .		3
45	Design and Optimization of a Wave Driven Solar Tracker for Floating Photovoltaic Plants. , 2019, , .		3
46	Obstacle Avoidance for Autonomous Sailboats via Reinforcement Learning with Coarse-to-fine Strategy. , 2019, , .		3
47	Wing Sail Land-yacht Modeling And System Verification. , 2019, , .		3
48	Collaborative Object Transportation by Multiple Robots with Onboard Object Localization Algorithm. , 2019, , .		3
49	A Hybrid Control Framework Teaching Robot to Write Chinese Characters: from Image to Handwriting. , 2021, , .		3
50	Collision Avoidance for Autonomous Sailboats Based on RRS Protocol. , 2019, , .		3
51	HAPTIC MODELING OF STOMACH FOR REAL-TIME PROPERTY AND FORCE ESTIMATION. Journal of Mechanics in Medicine and Biology, 2013, 13, 1350021.	0.7	2
52	Design optimization of the sensor spatial arrangement in a direct magnetic field-based localization system for medical applications. , 2015, 2015, 897-900.		2
53	An Adaptive Position Keeping Algorithm For Autonomous Sailboats. , 2019, , .		2
54	A Low-Cost, Wide-Range and Multi-Functional Vision Backend of Sailboat Research Testbed. , 2019, , .		2

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#	Article	IF	CITATIONS
55	A Novel Solar Tracker Driven by Waves: From Idea to Implementation. , 2020, , .		2
56	Long-Range Hand Gesture Recognition via Attention-based SSD Network. , 2021, , .		2
57	Learning a Skill-sequence-dependent Policy for Long-horizon Manipulation Tasks. , 2021, , .		2
58	Trajectory Tracking of Soft Continuum Robots with Unknown Models Based on Varying Parameter Recurrent Neural Networks. , 2021, , .		2
59	Sampling blockchain-enabled smart city applications among South Korea, the United States and China. , 2022, 1, 53-70.		2
60	Fixed and Sliding FBG Sensors-Based Triaxial Tip Force Sensing for Cable-Driven Continuum Robots. , 2022, , .		2
61	Real-time sensor fault detection and compensation in a passive magnetic field-based localization system. , 2016, , .		1
62	Hybrid actuator design for a gait augmentation wearable. , 2017, , .		1
63	Trajectory Tracking of Unicycle-type Robots with Constraints. , 2018, , .		1
64	Design of An Adaptive Mini Gripper for Climbing Robots. , 2018, , .		1
65	A New Turbine-Sail Coupled Propulsive System for Autonomous Sailboats*. , 2019, , .		1
66	A hybrid learningâ€based hysteresis compensation strategy for surgical robots. International Journal of Medical Robotics and Computer Assisted Surgery, 2021, 17, e2275.	2.3	1
67	Say What You Are Looking At: An Attention-Based Interactive System for Autistic Children. Applied Sciences (Switzerland), 2021, 11, 7426.	2.5	1
68	A Two-stage Automatic Latching System for The USVs Charging in Disturbed Berth. , 2020, , .		1
69	Design of an SSVEP-based BCI Stimuli System for Attention-based Robot Navigation in Robotic Telepresence. , 2021, , .		1
70	Synchronous Motion Generation of Multiple Continuum Robots Based on a Jacobian-Estimation Strategy. , 2021, , .		1
71	Augmented Pointing Gesture Estimation for Human-Robot Interaction. , 2022, , .		1
72	Trajectory Tracking for Leader-Follower Vehicle System with Velocity Constraints. , 2018, , .		0

#	Article	IF	CITATIONS
73	Towards Long Duration Self-Sustainable Ocean Sampling System*. , 2019, , .		0
74	A CNN-Based Position Control Method for Under-Actuated Cable-Driven Serpentine Manipulator. , 2021, , .		0
75	Towards Enhanced Social Well-being for the Disabled Using Humanoid Robot with Eye Tracker. , 2021, ,		0
76	Improved Gait Posture Prediction in Transfemoral Amputees with Reconstructed Shank EMG Signals. , 2021, , .		0