Dandan Zhang

List of Publications by Year
in descending order

21 papers	330 citations	1040056 9 h-index	1281871 11 g-index
21 all docs	21 docs citations	21 times ranked	255 citing authors

#	Article	IF	Citations
1	Progress in robotics for combating infectious diseases. Science Robotics, 2021, 6, .	17.6	67
2	Automatic Microsurgical Skill Assessment Based on Cross-Domain Transfer Learning. IEEE Robotics and Automation Letters, 2020, 5, 4148-4155.	5.1	30
3	A Self-Adaptive Motion Scaling Framework for Surgical Robot Remote Control. IEEE Robotics and Automation Letters, 2019, 4, 359-366.	5.1	29
4	A microsurgical robot research platform for robot-assisted microsurgery research and training. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 15-25.	2.8	26
5	Supervised Semi-Autonomous Control for Surgical Robot Based on Banoian Optimization. , 2020, , .		18
6	Hamlyn CRM: a compact master manipulator for surgical robot remote control. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 503-514.	2.8	16
7	Human-Robot Shared Control for Surgical Robot Based on Context-Aware Sim-to-Real Adaptation. , 2022, , .		16
8	Distributed Force Control for Microrobot Manipulation via Planar Multiâ€Spot Optical Tweezer. Advanced Optical Materials, 2020, 8, 2000543.	7.3	15
9	WSRender: A Workspace Analysis and Visualization Toolbox for Robotic Manipulator Design and Verification. IEEE Robotics and Automation Letters, 2019, 4, 3836-3843.	5.1	13
10	A Handheld Master Controller for Robot-Assisted Microsurgery. , 2019, , .		13
11	Data-Driven Microscopic Pose and Depth Estimation for Optical Microrobot Manipulation. ACS Photonics, 2020, 7, 3003-3014.	6.6	13
12	An Ergonomic Shared Workspace Analysis Framework for the Optimal Placement of a Compact Master Control Console. IEEE Robotics and Automation Letters, 2020, 5, 2995-3002.	5.1	13
13	A Learning-Driven Framework with Spatial Optimization For Surgical Suture Thread Reconstruction and Autonomous Grasping Under Multiple Topologies and Environmental Noises. , 2020, , .		10
14	From Teleoperation to Autonomous Robot-assisted Microsurgery: A Survey. , 2022, 19, 288-306.		10
15	Explainable Hierarchical Imitation Learning for Robotic Drink Pouring. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3871-3887.	5.2	9
16	Design and Verification of A Portable Master Manipulator Based on an Effective Workspace Analysis Framework. , 2019, , .		8
17	Real-time Surgical Environment Enhancement for Robot-Assisted Minimally Invasive Surgery Based on Super-Resolution. , 2021, , .		8
18	Surgical Gesture Recognition Based on Bidirectional Multi-Layer Independently RNN with Explainable Spatial Feature Extraction. , 2021, , .		6

#	Article	IF	Citations
19	WALS-robot: A compact and transformable Wheel-Arm-Leg-Sucker hybrid robot. , 2016, , .		5
20	Micro-object pose estimation with sim-to-real transfer learning using small dataset. Communications Physics, 2022, 5, .	5.3	5
21	Control Allocation Strategy for Optimal Digital Microthruster Arrays in Orbit Control Applications. Journal of Spacecraft and Rockets, 2019, 56, 836-843.	1.9	0