Xiaojian Li

List of Publications by Year in descending order

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19 papers	526 citations	1307594 7 h-index	1125743 13 g-index
19 all docs	19 docs citations	19 times ranked	712 citing authors

#	Article	IF	Citations
1	Development of a magnetic microrobot for carrying and delivering targeted cells. Science Robotics, 2018, 3, .	17.6	290
2	Gradient-Enhanced Electromagnetic Actuation System With a New Core Shape Design for Microrobot Manipulation. IEEE Transactions on Industrial Electronics, 2020, 67, 4700-4710.	7.9	47
3	<italic>In Vivo</italic> Manipulation of Single Biological Cells With an Optical Tweezers-Based Manipulator and a Disturbance Compensation Controller. IEEE Transactions on Robotics, 2017, 33, 1200-1212.	10.3	43
4	Transportation of Multiple Biological Cells Through Saturation-Controlled Optical Tweezers In Crowded Microenvironments. IEEE/ASME Transactions on Mechatronics, 2016, 21, 888-899.	5.8	36
5	Unsupervised-Learning-Based Continuous Depth and Motion Estimation With Monocular Endoscopy for Virtual Reality Minimally Invasive Surgery. IEEE Transactions on Industrial Informatics, 2021, 17, 3920-3928.	11.3	25
6	Autonomous Multiple Instruments Tracking for Robot-Assisted Laparoscopic Surgery With Visual Tracking Space Vector Method. IEEE/ASME Transactions on Mechatronics, 2022, 27, 733-743.	5.8	24
7	Simultaneous Localization and Mapping-Based In Vivo Navigation Control of Microparticles. IEEE Transactions on Industrial Informatics, 2020, 16, 2956-2964.	11.3	15
8	Leveraging Multimodal Semantic Fusion for Gastric Cancer Screening via Hierarchical Attention Mechanism. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 4286-4299.	9.3	7
9	Automatic Acetowhite Lesion Segmentation via Specular Reflection Removal and Deep Attention Network. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3529-3540.	6.3	7
10	SIRNet: Fine-Grained Surgical Interaction Recognition. IEEE Robotics and Automation Letters, 2022, 7, 4212-4219.	5.1	7
11	Precise Drug Delivery by Using PLGA-Based Microspheres and Optical Manipulators. IEEE Transactions on Nanobioscience, 2020, 19, 192-202.	3.3	5
12	<scp>HFSâ€LightGBM</scp>: A machine learning model based on hybrid feature selection for classifying <scp>ICU</scp> patient readmissions. Expert Systems, 2021, 38, e12658.	4.5	5
13	Preparation, Morphology, and Structure of Thermotropic Liquid Crystalline Polyester-imide/Phenol-formaldehyde Resin Blends. Journal of Macromolecular Science - Pure and Applied Chemistry, 2012, 49, 378-384.	2.2	3
14	Automated in-vivo transportation of biological cells with a disturbance compensation controller. , 2016, , .		3
15	Design of an automated controller with collision-avoidance capability for in-vivo transportation of biological cells. , 2017, , .		3
16	Stabilization Algorithm Based on Improved Motion Model for Jittery Video in Minimally Invasive Surgery. , 2019, , .		2
17	A Novel Dynamic Filed Tracking Algorithm of Mirror-holding Robot for Minimally Invasive Surgery. , 2019, , .		2
18	Haptic Feedback Based Laparoscope Movement Perception Method for Autonomous Surgical Instruments Tracking in Robot-Assisted Minimally Invasive Surgery. , 2021, , .		2

#	Article	IF	Citations
19	Virtual Fixtures Assistance for Safe Polyp Dissection in Minimally Invasive Robotic Surgery. , 2021, , .		0