

Zhengxin Yang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Ultrasound-Guided Wired Magnetic Microrobot With Active Steering and Ejectable Tip. IEEE Transactions on Industrial Electronics, 2023, 70, 614-623.	7.9	15
2	Ultrasound-Guided Catheterization Using a Driller-Tipped Guidewire With Combined Magnetic Navigation and Drilling Motion. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2829-2840.	5.8	14
3	Mobile Ultrasound Tracking and Magnetic Control for Long-Distance Endovascular Navigation of Untethered Miniature Robots against Pulsatile Flow. Advanced Intelligent Systems, 2022, 4, 2100144.	6.1	5
4	Decoupling and Reprogramming the Wiggling Motion of Midge Larvae Using a Soft Robotic Platform. Advanced Materials, 2022, 34, e2109126.	21.0	23
5	Mobile Ultrasound Tracking and Magnetic Control for Long-Distance Endovascular Navigation of Untethered Miniature Robots against Pulsatile Flow. Advanced Intelligent Systems, 2022, 4, .	6.1	2
6	Control and Autonomy of Microrobots: Recent Progress and Perspective. Advanced Intelligent Systems, 2022, 4, .	6.1	53
7	Untethered small-scale magnetic soft robot with programmable magnetization and integrated multifunctional modules. Science Advances, 2022, 8, .	10.3	105
8	Magnetic Micro-Driller System for Nasolacrimal Duct Recanalization. IEEE Robotics and Automation Letters, 2022, 7, 7367-7374.	5.1	6
9	Autonomous Navigation of Magnetic Microrobots in a Large Workspace Using Mobile-Coil System. IEEE/ASME Transactions on Mechatronics, 2021, 26, 3163-3174.	5.8	29
10	Magnetic Control of a Steerable Guidewire Under Ultrasound Guidance Using Mobile Electromagnets. IEEE Robotics and Automation Letters, 2021, 6, 1280-1287.	5.1	47
11	Simultaneous Actuation and Localization of Magnetic Robots Using Mobile Coils and Eye-In-Hand Hall-Effect Sensors. , 2021, , .		3
12	Hybrid Magnetic Force and Torque Actuation of Miniature Helical Robots Using Mobile Coils to Accelerate Blood Clot Removal. , 2021, , .		0
13	Eye-in-Hand 3D Visual Servoing of Helical Swimmers Using Parallel Mobile Coils. , 2020, , .		5
14	Magnetic Actuation Systems for Miniature Robots: A Review. Advanced Intelligent Systems, 2020, 2, 2000082.	6.1	164
15	3-D Visual Servoing of Magnetic Miniature Swimmers Using Parallel Mobile Coils. IEEE Transactions on Medical Robotics and Bionics, 2020, 2, 608-618.	3.2	17