

Zhengxin Yang

List of Publications by Year in descending order

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201
citing authors

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