

Changsheng Dai

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Robotic Rotational Positioning of End-Effectors for Micromanipulation. IEEE Transactions on Robotics, 2022, 38, 2251-2261.	10.3	6
2	Robotic Manipulation of Sperm as a Deformable Linear Object. IEEE Transactions on Robotics, 2022, 38, 2799-2811.	10.3	8
3	Automated End-Effector Alignment in Robotic Micromanipulation. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3932-3941.	5.8	7
4	Robotic Cell Manipulation for Blastocyst Biopsy. , 2022, , .		1
5	Automated motility and morphology measurement of live spermatozoa. Andrology, 2021, 9, 1205-1213.	3.5	4
6	Advances in sperm analysis: techniques, discoveries and applications. Nature Reviews Urology, 2021, 18, 447-467.	3.8	29
7	Quantitative selection of single human sperm with high DNA integrity for intracytoplasmic sperm injection. Fertility and Sterility, 2021, 116, 1308-1318.	1.0	7
8	Automated End-Effector Alignment for Robotic Cell Manipulation. , 2021, , .		2
9	Automation Techniques and Systems for ICSI. , 2021, , 129-140.		1
10	Robotic Manipulation of Deformable Cells for Orientation Control. IEEE Transactions on Robotics, 2020, 36, 271-283.	10.3	43
11	Model-Based Robotic Cell Aspiration: Tackling Nonlinear Dynamics and Varying Cell Sizes. IEEE Robotics and Automation Letters, 2020, 5, 173-178.	5.1	17
12	Design and Control of a Piezo Drill for Robotic Piezo-Driven Cell Penetration. IEEE Robotics and Automation Letters, 2020, 5, 339-345.	5.1	17
13	Robotic Immobilization of Motile Sperm for Clinical Intracytoplasmic Sperm Injection. IEEE Transactions on Biomedical Engineering, 2019, 66, 444-452.	4.2	36
14	Robotic Orientation Control of Deformable Cells. , 2019, , .		4
15	Automated Laser Ablation of Motile Sperm for Immobilization. IEEE Robotics and Automation Letters, 2019, 4, 323-329.	5.1	6
16	Robotic Micromanipulation: Fundamentals and Applications. Annual Review of Control, Robotics, and Autonomous Systems, 2019, 2, 181-203.	11.8	101
17	A Flexure-Guided Piezo Drill for Penetrating the Zona Pellucida of Mammalian Oocytes. IEEE Transactions on Biomedical Engineering, 2018, 65, 678-686.	4.2	27
18	Automated Non-Invasive Measurement of Single Sperm's Motility and Morphology. IEEE Transactions on Medical Imaging, 2018, 37, 2257-2265.	8.9	28