

Jun Liu

List of Publications by Year in descending order

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60
papers

2,958
citations

279701

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all docs

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docs citations

60
times ranked

2964
citing authors

#	ARTICLE	IF	CITATIONS
1	Reply from authors: Anatomical or functional repair for ischemic mitral regurgitation: Find the right antidote!. Journal of Thoracic and Cardiovascular Surgery, 2022, 163, e181-e182.	0.4	1
2	Sign Language Recognition Based on R(2+1)D With Spatialâ€“Temporalâ€“Channel Attention. IEEE Transactions on Human-Machine Systems, 2022, 52, 687-698.	2.5	16
3	TrajectoryCNN: A New Spatio-Temporal Feature Learning Network for Human Motion Prediction. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 2133-2146.	5.6	38
4	Multipoint Simultaneous Tracking of Wireless Capsule Endoscope Using Magnetic Sensor Array. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	25
5	Automatic Microscopy Analysis with Transfer Learning for Classification of Human Sperm. Applied Sciences (Switzerland), 2021, 11, 5369.	1.3	4
6	WSUIE: Weakly Supervised Underwater Image Enhancement for Improved Visual Perception. IEEE Robotics and Automation Letters, 2021, 6, 8237-8244.	3.3	13
7	Energy-Based Periodicity Mining With Deep Features for Action Repetition Counting in Unconstrained Videos. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 4812-4825.	5.6	3
8	Skeleton-Based Online Action Prediction Using Scale Selection Network. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 1453-1467.	9.7	107
9	Decode a ticking time-bomb. Journal of Thoracic Disease, 2020, 12, 4598-4601.	0.6	1
10	Development of a Hybrid Training Simulator for Structural Heart Disease Interventions. Advanced Intelligent Systems, 2020, 2, 2000109.	3.3	2
11	Commentary: Strength at the cutting edge. JTCVS Techniques, 2020, 2, 58-59.	0.2	0
12	One-Shot SADI-EPE: A Visual Framework of Event Progress Estimation. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 1659-1671.	5.6	2
13	Robotic Immobilization of Motile Sperm for Clinical Intracytoplasmic Sperm Injection. IEEE Transactions on Biomedical Engineering, 2019, 66, 444-452.	2.5	36
14	An augmented reality system for image guidance of transcatheter procedures for structural heart disease. PLoS ONE, 2019, 14, e0219174.	1.1	26
15	Image Registration in Medical Robotics and Intelligent Systems: Fundamentals and Applications. Advanced Intelligent Systems, 2019, 1, 1900048.	3.3	13
16	Using Soft Robotic Technology to Fabricate a Proofâ€“ofâ€“Concept Transcatheter Tricuspid Valve Replacement (TTVR) Device. Advanced Materials Technologies, 2019, 4, 1800610.	3.0	7
17	DBNet: A New Generalized Structure Efficient for Classification. , 2019, , .		2
18	Robotic Micromanipulation: Fundamentals and Applications. Annual Review of Control, Robotics, and Autonomous Systems, 2019, 2, 181-203.	7.5	101

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19	A Three-Dimensional Magnetic Tweezer System for Intraembryonic Navigation and Measurement. IEEE Transactions on Robotics, 2018, 34, 240-247.	7.3	52
20	A Flexure-Guided Piezo Drill for Penetrating the Zona Pellucida of Mammalian Oocytes. IEEE Transactions on Biomedical Engineering, 2018, 65, 678-686.	2.5	27
21	Characterizing Inner Pressure and Stiffness of Trophoblast and Inner Cell Mass of Blastocysts. Biophysical Journal, 2018, 115, 2443-2450.	0.2	35
22	Robotic Immobilization of Motile Sperm. , 2018, , .		0
23	Effect of Cell Inner Pressure on Deposition Volume in Microinjection. Langmuir, 2018, 34, 10287-10292.	1.6	8
24	A System for Automated Detection of Ampoule Injection Impurities. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1119-1128.	3.4	14
25	Appendix C: Automated Vitrification of Mammalian Embryos on a Digital Microfluidic Device. Methods in Molecular Biology, 2017, 1568, 309-316.	0.4	2
26	Automated Robotic Measurement of 3-D Cell Morphologies. IEEE Robotics and Automation Letters, 2017, 2, 499-505.	3.3	22
27	Robotic Pick-And-Place of Multiple Embryos for Vitrification. IEEE Robotics and Automation Letters, 2017, 2, 570-576.	3.3	27
28	Three-dimensional robotic control of a 5-micrometer magnetic bead for intra-embryonic navigation and measurement. , 2017, , .		1
29	An automated system for investigating sperm orientation in fluid flow. , 2016, , .		1
30	Robotic fluidic jet for automated cellular and intracellular mechanical characterization. , 2016, , .		4
31	NTU RGB+D: A Large Scale Dataset for 3D Human Activity Analysis. , 2016, , .		1,482
32	Human sperm rheotaxis: a passive physical process. Scientific Reports, 2016, 6, 23553.	1.6	83
33	Recent advances in nanorobotic manipulation inside scanning electron microscopes. Microsystems and Nanoengineering, 2016, 2, 16024.	3.4	133
34	Microinjection Technique for Assessment of Gap Junction Function. Methods in Molecular Biology, 2016, 1437, 145-154.	0.4	4
35	Voyage inside the cell: Microsystems and nanoengineering for intracellular measurement and manipulation. Microsystems and Nanoengineering, 2015, 1, .	3.4	66
36	Automated micro-aspiration of mouse embryo limb bud tissue. , 2015, , .		2

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37	Automated robotic vitrification of embryos. , 2015, , .		2
38	Automated Vitrification of Embryos: A Robotics Approach. IEEE Robotics and Automation Magazine, 2015, 22, 33-40.	2.2	36
39	Evolutionarily conserved intercalated disc protein Tmem65 regulates cardiac conduction and connexin 43 function. Nature Communications, 2015, 6, 8391.	5.8	35
40	Robotic Adherent Cell Injection for Characterizing Cell-Cell Communication. IEEE Transactions on Biomedical Engineering, 2015, 62, 119-125.	2.5	65
41	A system for automated counting of fetal and maternal red blood cells in clinical KB test. , 2014, , .		0
42	Fluorescence and SEM correlative microscopy for nanomanipulation of subcellular structures. Light: Science and Applications, 2014, 3, e224-e224.	7.7	19
43	Mechanical characterization of cancer cell nuclei in situ. , 2014, , .		0
44	Correlative microscopy for nanomanipulation of sub-cellular structures. , 2014, , .		3
45	Locating End-Effector Tips in Robotic Micromanipulation. IEEE Transactions on Robotics, 2014, 30, 125-130.	7.3	53
46	High-throughput measurement of gap junctional intercellular communication. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H1708-H1713.	1.5	15
47	Automated microrobotic characterization of cell-cell communication. , 2014, , .		1
48	Automated vitrification of mammalian embryos on a digital microfluidic device. , 2014, , .		5
49	Robotic Probing of Nanostructures inside Scanning Electron Microscopy. IEEE Transactions on Robotics, 2014, 30, 758-765.	7.3	28
50	Controlled ultrasonic micro-dissection of thin tissue sections. Biomedical Microdevices, 2014, 16, 567-573.	1.4	5
51	A System for Counting Fetal and Maternal Red Blood Cells. IEEE Transactions on Biomedical Engineering, 2014, 61, 2823-2829.	2.5	25
52	<i>In Situ</i> Mechanical Characterization of the Cell Nucleus by Atomic Force Microscopy. ACS Nano, 2014, 8, 3821-3828.	7.3	176
53	Digital Microfluidic Processing of Mammalian Embryos for Vitrification. PLoS ONE, 2014, 9, e108128.	1.1	41
54	TMEM43 Mutation p.S358L Alters Intercalated Disc Protein Expression and Reduces Conduction Velocity in Arrhythmogenic Right Ventricular Cardiomyopathy. PLoS ONE, 2014, 9, e109128.	1.1	31

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55	Locating end-effector tips in automated micromanipulation. , 2013, , .		5
56	Automated nanoprobng under scanning electron microscopy. , 2013, , .		3
57	Quantitative Analysis of Locomotive Behavior of Human Sperm Head and Tail. IEEE Transactions on Biomedical Engineering, 2013, 60, 390-396.	2.5	42
58	Human Sperm Tracking, Analysis, and Manipulation. , 2013, , 251-264.		4
59	Single Cell Deposition. Methods in Cell Biology, 2012, 112, 403-420.	0.5	1
60	ZigBee Wireless Sensor Networks Based Detection and Help System for Elderly Abnormal Behaviors in Service Robot Intelligent Space. Applied Mechanics and Materials, 0, 48-49, 1378-1382.	0.2	3