

# Junqiang Lou

## List of Publications by Year in descending order

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23  
papers

324  
citations

759233

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888059

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g-index

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all docs

24  
docs citations

24  
times ranked

270  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electricity-structure-fluid coupled modelling and experiment of underwater flexible structure with partially distributed macro fiber composites. JVC/Journal of Vibration and Control, 2022, 28, 290-303.	2.6	4
2	Optimal Switching Time Control for Suppressing Residual Vibration in a High-Speed Macro-Micro Manipulator System. IEEE Transactions on Control Systems Technology, 2022, 30, 360-367.	5.2	6
3	Effects of actuator-substrate ratio on hydrodynamic and propulsion performances of underwater oscillating flexible structure actuated by macro fiber composites. Mechanical Systems and Signal Processing, 2022, 170, 108824.	8.0	10
4	Cantilever-based micro thrust measurement and pressure field distribution of biomimetic robot fish actuated by macro fiber composites (MFCs) actuators. Smart Materials and Structures, 2021, 30, 035001.	3.5	14
5	Hysteresis modeling and feedforward compensation of a flexible structure actuated by macro fiber composites using bias bipolar Prandtl-Ishlinskii model. Journal of Intelligent Material Systems and Structures, 2021, 32, 2325-2337.	2.5	4
6	Rhythm motion control in bio-inspired fishtail based on central pattern generator. IET Cyber-Systems and Robotics, 2021, 3, 53-67.	1.8	3
7	Micro thrust measurement experiment and pressure field evolution of bionic robotic fish with harmonic actuation of macro fiber composites. Mechanical Systems and Signal Processing, 2021, 153, 107538.	8.0	14
8	Vibration Suppression of a High-Speed Macro-Micro Integrated System Using Computational Optimal Control. IEEE Transactions on Industrial Electronics, 2020, 67, 7841-7850.	7.9	13
9	Underwater oscillation performance and 3D vortex distribution generated by miniature caudal fin-like propulsion with macro fiber composite actuation. Sensors and Actuators A: Physical, 2020, 303, 111587.	4.1	19
10	A low-cost deformable lens for correction of low-order aberrations. Optics Communications, 2020, 460, 125209.	2.1	8
11	Oscillating performance and propulsion mechanism of biomimetic underwater oscillatory propulsion by resonant actuation of macro fiber composites. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 1660-1672.	2.1	8
12	Coupling dynamic modelling and parameter identification of a flexible manipulator system with harmonic drive. Measurement and Control, 2019, 52, 122-130.	1.8	14
13	Dynamic modeling and adaptive vibration suppression of a high-speed macro-micro manipulator. Journal of Sound and Vibration, 2018, 422, 318-342.	3.9	35
14	Design and position/force control of an S-shaped MFC microgripper. Sensors and Actuators A: Physical, 2018, 282, 63-78.	4.1	19
15	Auto-regressive moving average with exogenous excitation model based experimental identification and optimal discrete multi-poles shifting control of a flexible piezoelectric manipulator. JVC/Journal of Vibration and Control, 2018, 24, 5707-5725.	2.6	6
16	Development and Hybrid Position/Force Control of a Dual-Drive Macro-Fiber-Composite Microgripper. Sensors, 2018, 18, 1301.	3.8	15
17	Design and analysis of a new flexure-based XY stage. Journal of Intelligent Material Systems and Structures, 2017, 28, 2388-2402.	2.5	13
18	Nonlinear dynamic analysis and optimal trajectory planning of a high-speed macro-micro manipulator. Journal of Sound and Vibration, 2017, 405, 112-132.	3.9	37

#	ARTICLE	IF	CITATIONS
19	Design and control of a multi-DOF micromanipulator dedicated to multiscale micromanipulation. Smart Materials and Structures, 2017, 26, 115016.	3.5	23
20	Experimental Identification and Vibration Control of A Piezoelectric Flexible Manipulator Using Optimal Multi-Poles Placement Control. Applied Sciences (Switzerland), 2017, 7, 309.	2.5	11
21	Condition Monitoring for Roller Bearings of Wind Turbines Based on Health Evaluation under Variable Operating States. Energies, 2017, 10, 1564.	3.1	15
22	Hysteresis modeling and precision trajectory control for a new MFC micromanipulator. Sensors and Actuators A: Physical, 2016, 247, 37-52.	4.1	20
23	Optimal Trajectory Planning and Linear Velocity Feedback Control of a Flexible Piezoelectric Manipulator for Vibration Suppression. Shock and Vibration, 2015, 2015, 1-11.	0.6	12