

Junqiang Lou

List of Publications by Year in descending order

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23
papers

324
citations

759055

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24
all docs

24
docs citations

24
times ranked

270
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear dynamic analysis and optimal trajectory planning of a high-speed macro-micro manipulator. <i>Journal of Sound and Vibration</i> , 2017, 405, 112-132.	2.1	37
2	Dynamic modeling and adaptive vibration suppression of a high-speed macro-micro manipulator. <i>Journal of Sound and Vibration</i> , 2018, 422, 318-342.	2.1	35
3	Design and control of a multi-DOF micromanipulator dedicated to multiscale micromanipulation. <i>Smart Materials and Structures</i> , 2017, 26, 115016.	1.8	23
4	Hysteresis modeling and precision trajectory control for a new MFC micromanipulator. <i>Sensors and Actuators A: Physical</i> , 2016, 247, 37-52.	2.0	20
5	Design and position/force control of an S-shaped MFC microgripper. <i>Sensors and Actuators A: Physical</i> , 2018, 282, 63-78.	2.0	19
6	Underwater oscillation performance and 3D vortex distribution generated by miniature caudal fin-like propulsion with macro fiber composite actuation. <i>Sensors and Actuators A: Physical</i> , 2020, 303, 111587.	2.0	19
7	Condition Monitoring for Roller Bearings of Wind Turbines Based on Health Evaluation under Variable Operating States. <i>Energies</i> , 2017, 10, 1564.	1.6	15
8	Development and Hybrid Position/Force Control of a Dual-Drive Macro-Fiber-Composite Microgripper. <i>Sensors</i> , 2018, 18, 1301.	2.1	15
9	Coupling dynamic modelling and parameter identification of a flexible manipulator system with harmonic drive. <i>Measurement and Control</i> , 2019, 52, 122-130.	0.9	14
10	Cantilever-based micro thrust measurement and pressure field distribution of biomimetic robot fish actuated by macro fiber composites (MFCs) actuators. <i>Smart Materials and Structures</i> , 2021, 30, 035001.	1.8	14
11	Micro thrust measurement experiment and pressure field evolution of bionic robotic fish with harmonic actuation of macro fiber composites. <i>Mechanical Systems and Signal Processing</i> , 2021, 153, 107538.	4.4	14
12	Design and analysis of a new flexure-based XY stage. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 2388-2402.	1.4	13
13	Vibration Suppression of a High-Speed Macro-Micro Integrated System Using Computational Optimal Control. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 7841-7850.	5.2	13
14	Optimal Trajectory Planning and Linear Velocity Feedback Control of a Flexible Piezoelectric Manipulator for Vibration Suppression. <i>Shock and Vibration</i> , 2015, 2015, 1-11.	0.3	12
15	Experimental Identification and Vibration Control of A Piezoelectric Flexible Manipulator Using Optimal Multi-Poles Placement Control. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 309.	1.3	11
16	Effects of actuator-substrate ratio on hydrodynamic and propulsion performances of underwater oscillating flexible structure actuated by macro fiber composites. <i>Mechanical Systems and Signal Processing</i> , 2022, 170, 108824.	4.4	10
17	A low-cost deformable lens for correction of low-order aberrations. <i>Optics Communications</i> , 2020, 460, 125209.	1.0	8
18	Oscillating performance and propulsion mechanism of biomimetic underwater oscillatory propulsion by resonant actuation of macro fiber composites. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020, 234, 1660-1672.	1.1	8

#	ARTICLE	IF	CITATIONS
19	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.	1.5	6
20	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.	3.2	6
21	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.	1.5	4
22	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.	1.4	4
23	Rhythm motion control in bio-inspired fishtail based on central pattern generator. IET Cyber-Systems and Robotics, 2021, 3, 53-67.	1.1	3