

Xiaohui Lu

List of Publications by Year in descending order

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papers

541
citations

840776

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196
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Trapezoid-Type Stick-Slip Piezoelectric Linear Actuator Using Right Circular Flexure Hinge Mechanism. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 5545-5552.	7.9	154
2	Investigation on driving characteristics of a piezoelectric stick-slip actuator based on resonant/off-resonant hybrid excitation. <i>Smart Materials and Structures</i> , 2017, 26, 035042.	3.5	61
3	A friction regulation hybrid driving method for backward motion restraint of the smooth impact drive mechanism. <i>Smart Materials and Structures</i> , 2016, 25, 085033.	3.5	60
4	Performance improvement of smooth impact drive mechanism at low voltage utilizing ultrasonic friction reduction. <i>Review of Scientific Instruments</i> , 2016, 87, 085007.	1.3	36
5	A Linear Piezoelectric Stick-Slip Actuator via Triangular Displacement Amplification Mechanism. <i>IEEE Access</i> , 2020, 8, 6515-6522.	4.2	33
6	Note: Lever-type bidirectional stick-slip piezoelectric actuator with flexible hinge. <i>Review of Scientific Instruments</i> , 2018, 89, 086101.	1.3	31
7	Simple and high-performance stick-slip piezoelectric actuator based on an asymmetrical flexure hinge driving mechanism. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 2125-2134.	2.5	31
8	Achieving Smooth Motion for Piezoelectric Stick-Slip Actuator With the Inertial Block Structure. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 3948-3958.	7.9	29
9	A direction-guidance hybrid excitation method for inertial flexible hinge piezoelectric actuator with high speed performance. <i>Sensors and Actuators A: Physical</i> , 2020, 314, 112229.	4.1	20
10	A stick-slip linear piezoelectric actuator with mode conversion flexible hinge driven by symmetrical waveform. <i>Smart Materials and Structures</i> , 2020, 29, 055035.	3.5	19
11	A piezoelectric stick-slip linear actuator with a rhombus-type flexure hinge mechanism by means of parasitic motion. <i>Review of Scientific Instruments</i> , 2019, 90, 096102.	1.3	16
12	A dual-mode excitation method of flexure hinge type piezoelectric stick-slip actuator for suppressing backward motion. <i>Sensors and Actuators A: Physical</i> , 2021, 330, 112853.	4.1	13
13	Piezoelectric stick-slip actuators with flexure hinge mechanisms: A review. <i>Journal of Intelligent Material Systems and Structures</i> , 2022, 33, 1879-1901.	2.5	10
14	A flexure hinged piezoelectric stick-slip actuator with high velocity and linearity for long-stroke nano-positioning. <i>Smart Materials and Structures</i> , 2022, 31, 075017.	3.5	9
15	Improving Velocity of Stick-Slip Piezoelectric Actuators With Optimized Flexure Hinges Based on SIMP Method. <i>IEEE Access</i> , 2020, 8, 213122-213129.	4.2	7
16	A topology optimization method and experimental verification of piezoelectric stick-slip actuator with flexure hinge mechanism. <i>Archive of Applied Mechanics</i> , 2022, 92, 271-285.	2.2	5
17	Piezoelectric Stick-Slip Actuator Integrated with Ultrasonic Vibrator for Improving Comprehensive Output Performance. <i>Smart Materials and Structures</i> , 0, , .	3.5	3
18	A stick-slip linear actuator with high speed and nano-resolution by resonance/non-resonance hybrid driving. <i>Review of Scientific Instruments</i> , 2022, 93, .	1.3	3

#	ARTICLE	IF	CITATIONS
19	Topology Optimization Methods for Flexure Hinge Type Piezoelectric Actuators. , 0, , .		1
20	The Asymmetric Flexure Hinge Structures and the Hybrid Excitation Methods for Piezoelectric Stick-Slip Actuators. , 0, , .		0