

Xiaohui Lu

List of Publications by Year in descending order

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196
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#	ARTICLE	IF	CITATIONS
1	Achieving Smooth Motion for Piezoelectric Stick-Slip Actuator With the Inertial Block Structure. IEEE Transactions on Industrial Electronics, 2022, 69, 3948-3958.	7.9	29
2	A topology optimization method and experimental verification of piezoelectric stick-slip actuator with flexure hinge mechanism. Archive of Applied Mechanics, 2022, 92, 271-285.	2.2	5
3	Piezoelectric stick-slip actuators with flexure hinge mechanisms: A review. Journal of Intelligent Material Systems and Structures, 2022, 33, 1879-1901.	2.5	10
4	A stick-slip linear actuator with high speed and nano-resolution by resonance/non-resonance hybrid driving. Review of Scientific Instruments, 2022, 93, .	1.3	3
5	A flexure hinged piezoelectric stick-slip actuator with high velocity and linearity for long-stroke nano-positioning. Smart Materials and Structures, 2022, 31, 075017.	3.5	9
6	A dual-mode excitation method of flexure hinge type piezoelectric stick-slip actuator for suppressing backward motion. Sensors and Actuators A: Physical, 2021, 330, 112853.	4.1	13
7	A direction-guidance hybrid excitation method for inertial flexible hinge piezoelectric actuator with high speed performance. Sensors and Actuators A: Physical, 2020, 314, 112229.	4.1	20
8	Improving Velocity of Stick-Slip Piezoelectric Actuators With Optimized Flexure Hinges Based on SIMP Method. IEEE Access, 2020, 8, 213122-213129.	4.2	7
9	A stick-slip linear piezoelectric actuator with mode conversion flexible hinge driven by symmetrical waveform. Smart Materials and Structures, 2020, 29, 055035.	3.5	19
10	A Linear Piezoelectric Stick-Slip Actuator via Triangular Displacement Amplification Mechanism. IEEE Access, 2020, 8, 6515-6522.	4.2	33
11	Simple and high-performance stick-slip piezoelectric actuator based on an asymmetrical flexure hinge driving mechanism. Journal of Intelligent Material Systems and Structures, 2019, 30, 2125-2134.	2.5	31
12	A piezoelectric stick-slip linear actuator with a rhombus-type flexure hinge mechanism by means of parasitic motion. Review of Scientific Instruments, 2019, 90, 096102.	1.3	16
13	Note: Lever-type bidirectional stick-slip piezoelectric actuator with flexible hinge. Review of Scientific Instruments, 2018, 89, 086101.	1.3	31
14	A Novel Trapezoid-Type Stick-Slip Piezoelectric Linear Actuator Using Right Circular Flexure Hinge Mechanism. IEEE Transactions on Industrial Electronics, 2017, 64, 5545-5552.	7.9	154
15	Investigation on driving characteristics of a piezoelectric stick-slip actuator based on resonant/off-resonant hybrid excitation. Smart Materials and Structures, 2017, 26, 035042.	3.5	61
16	Performance improvement of smooth impact drive mechanism at low voltage utilizing ultrasonic friction reduction. Review of Scientific Instruments, 2016, 87, 085007.	1.3	36
17	A friction regulation hybrid driving method for backward motion restraint of the smooth impact drive mechanism. Smart Materials and Structures, 2016, 25, 085033.	3.5	60
18	The Asymmetric Flexure Hinge Structures and the Hybrid Excitation Methods for Piezoelectric Stick-Slip Actuators. , 0, , .		0

#	ARTICLE	IF	CITATIONS
19	Piezoelectric Stick-Slip Actuator Integrated with Ultrasonic Vibrator for Improving Comprehensive Output Performance. <i>Smart Materials and Structures</i> , 0, , .	3.5	3
20	Topology Optimization Methods for Flexure Hinge Type Piezoelectric Actuators. , 0, , .		1