

Lei Liu

List of Publications by Year in descending order

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31
papers

1,030
citations

687363

13
h-index

526287

27
g-index

31
all docs

31
docs citations

31
times ranked

1131
citing authors

#	ARTICLE	IF	CITATIONS
1	Ground-to-satellite quantum teleportation. <i>Nature</i> , 2017, 549, 70-73.	27.8	524
2	Discrete Composite Control of Piezoelectric Actuators for High-Speed and Precision Scanning. <i>IEEE Transactions on Industrial Informatics</i> , 2013, 9, 859-868.	11.3	73
3	Development of an Approach Toward Comprehensive Identification of Hysteretic Dynamics in Piezoelectric Actuators. <i>IEEE Transactions on Control Systems Technology</i> , 2013, 21, 1834-1845.	5.2	50
4	Modeling and robust H-infinite control of a novel non-contact ultra-quiet Stewart spacecraft. <i>Acta Astronautica</i> , 2015, 107, 274-289.	3.2	40
5	Development of Multitarget Acquisition, Pointing, and Tracking System for Airborne Laser Communication. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 1720-1729.	11.3	40
6	SVD-based Preisach hysteresis identification and composite control of piezo actuators. <i>ISA Transactions</i> , 2012, 51, 430-438.	5.7	36
7	Investigation on two-stage vibration suppression and precision pointing for space optical payloads. <i>Aerospace Science and Technology</i> , 2020, 96, 105543.	4.8	35
8	Development of an isotropic Stewart platform for telescope secondary mirror. <i>Mechanical Systems and Signal Processing</i> , 2019, 127, 328-344.	8.0	31
9	Fractional Order Based Modeling and Identification of Coupled Creep and Hysteresis Effects in Piezoelectric Actuators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 1036-1044.	5.8	24
10	Composite modeling and parameter identification of broad bandwidth hysteretic dynamics in piezoelectric fast steering platform. <i>Mechanical Systems and Signal Processing</i> , 2019, 121, 97-111.	8.0	23
11	Twistor-based synchronous sliding mode control of spacecraft attitude and position. <i>Chinese Journal of Aeronautics</i> , 2018, 31, 1153-1164.	5.3	22
12	Active vibration isolation of ultra-stable optical reference cavity of space optical clock. <i>Aerospace Science and Technology</i> , 2021, 112, 106633.	4.8	21
13	Ultra-Precision Measurement and Control of Angle Motion in Piezo-Based Platforms Using Strain Gauge Sensors and a Robust Composite Controller. <i>Sensors</i> , 2013, 13, 9070-9084.	3.8	13
14	Active vibration isolation based on model reference adaptive control. <i>International Journal of Systems Science</i> , 2014, 45, 97-108.	5.5	13
15	Modeling and Analysis of Ultra-Low Frequency Dynamics of Drag-Free Satellites. <i>Microgravity Science and Technology</i> , 2019, 31, 151-160.	1.4	11
16	Modeling and collision avoidance control for the Disturbance-Free Payload spacecraft. <i>Acta Astronautica</i> , 2019, 164, 415-424.	3.2	11
17	<sc>SVD</sc>-Based Accurate Identification and Compensation of the Coupling Hysteresis and Creep Dynamics in Piezoelectric Actuators. <i>Asian Journal of Control</i> , 2014, 16, 59-69.	3.0	9
18	Modeling and Pointing Performance Analysis of Disturbance-Free-Payload System With Flexible Umbilical Connection. <i>IEEE Access</i> , 2019, 7, 109585-109596.	4.2	9

#	ARTICLE	IF	CITATIONS
19	Multirate-Based Composite Controller Design of Piezoelectric Actuators for High-Bandwidth and Precision Tracking. IEEE Transactions on Control Systems Technology, 2014, 22, 816-821.	5.2	8
20	Modeling and identification investigation of multi-field hysteretic dynamics in flexure-guided piezo platform. Mechanical Systems and Signal Processing, 2015, 50-51, 594-606.	8.0	8
21	High Accuracy and Multi-Target Acquisition, Pointing and Tracking under Satellite Micro-Vibrations. Microgravity Science and Technology, 2020, 32, 715-727.	1.4	7
22	Modeling and Micro-vibration Control of Flexible Cable for Disturbance-Free Payload Spacecraft. Microgravity Science and Technology, 2021, 33, 1.	1.4	7
23	Broadband modeling and precise control of piezoelectric sensing-actuating system for dynamic force output. Journal of the Franklin Institute, 2020, 357, 4524-4542.	3.4	5
24	Ground Experiment Development for Acquiring, Tracking and Pointing of Small Space Debris. Journal of the Astronautical Sciences, 2019, 66, 68-82.	1.5	3
25	One Novel Distributed Space Telescope With Payload Formation. IEEE Access, 2020, 8, 13949-13957.	4.2	3
26	Sensitivity Modeling and Enhancement for Space-Based Gravitational Wave Detector with Optical Atomic Clocks under Solar Radiation Disturbance. Microgravity Science and Technology, 2021, 33, 1.	1.4	2
27	Composite axis control system development of airborne electro-optical platform. , 2017, , .		1
28	Relativistic Evaluation Models of Laser Time Transfer between Satellites Resulting from Orbit Perturbations and Attitude Jitters. Microgravity Science and Technology, 2020, 32, 281-293.	1.4	1
29	Accurate modeling and suppression of microvibrations in precision spacecraft. , 2019, , 125-144.		0
30	Design and Realization of Broadband and High Precision IEPE Accelerometer Signal Conditioner. , 2021, , .		0
31	Comprehensive Modeling of Multifield Hysteretic Dynamics. , 2016, , 61-86.		0