

# CITATION REPORT

List of articles citing

## Accounting for hysteresis in repetitive control design: Nanopositioning example

DOI: 10.1016/j.automatica.2012.05.055  
Automatica, 2012, 48, 1751-1758.

**Source:** <https://exaly.com/paper-pdf/53631486/citation-report.pdf>

**Version:** 2024-04-24

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
90	A Novel Fractional Order Model for the Dynamic Hysteresis of Piezoelectrically Actuated Fast Tool Servo. <i>Materials</i> , <b>2012</b> , 5, 2465-2485	3.5	13
89	Invited review article: high-speed flexure-guided nanopositioning: mechanical design and control issues. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 121101	1.7	318
88	Smart Materials-Based Actuators at the Micro/Nano-Scale. <b>2013</b> ,		22
87	Design and Control for High-Speed Nanopositioning: Serial-Kinematic Nanopositioners and Repetitive Control for Nanofabrication. <i>IEEE Control Systems</i> , <b>2013</b> , 33, 86-105	2.9	41
86	On detection and estimation in atomic force microscopy at different scan speeds*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 153-159		2
85	Modeling and active disturbance rejection control for a piezoelectric-actuator driven nanopositioner. <b>2014</b> ,		3
84	Robust Adaptive Inverse Control of a Class of Nonlinear Systems With Prandtl-Ishlinskii Hysteresis Model. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 2170-2175	5.9	62
83	Aperiodic Disturbance Rejection in Repetitive-Control Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2014</b> , 22, 1044-1051	4.8	47
82	. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 953-965	5.9	22
81	Design, Modeling and Control of Nanopositioning Systems. <i>Advances in Industrial Control</i> , <b>2014</b> ,	0.3	83
80	A new repetitive control scheme based on non-causal FIR filters. <b>2014</b> ,		8
79	. <b>2014</b> ,		0
78	Modeling and control of a novel X-Y parallel piezoelectric-actuator driven nanopositioner. <b>2014</b> ,		
77	Measuring and predicting resolution in nanopositioning systems. <i>Mechatronics</i> , <b>2014</b> , 24, 605-618	3	20
76	Analog Robust Repetitive Control for Nanopositioning Using Bucket Brigade Devices. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 1126-1133		1
75	Adaptive sliding model control for linear actuator with hysteresis using a Prandtl-Ishlinskii model. <b>2014</b> ,		3
74	Modeling and control of a piezoelectric-actuated nano-positioner: An hierarchical composite anti-disturbance control approach. <b>2014</b> ,		

73	Low-Order Damping and Tracking Control for Scanning Probe Systems. <i>Frontiers in Mechanical Engineering</i> , <b>2015</b> , 1,	2.6	5
72	Repetitive control for TORA benchmark: An additive-state-decomposition-based approach. <i>International Journal of Automation and Computing</i> , <b>2015</b> , 12, 289-296	3.5	8
71	Modeling and control of a novel X-Y parallel piezoelectric-actuator driven nanopositioner. <i>ISA Transactions</i> , <b>2015</b> , 56, 145-54	5.5	21
70	Low-order continuous-time robust repetitive control: Application in nanopositioning. <i>Mechatronics</i> , <b>2015</b> , 30, 231-243	3	13
69	A Position Domain Cross-Coupled Iteration Learning Control for Contour Tracking in Multi-axis Precision Motion Control Systems. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 667-679	0.9	1
68	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2015</b> , 20, 1956-1965	5.5	64
67	Model reference compensation for hysteresis system based on Extended State Observer. <b>2016</b> ,		1
66	A position domain iteration learning control for contour tracking with application to a multi-axis motion testbed. <b>2016</b> ,		
65	Modified ADRC with composite nonlinear feedback for a piezoelectric-actuator driven nano-manipulating stage. <b>2016</b> ,		
64	Heuristic modeling and inverse compensation of hysteresis in piezoelectric actuators based on time series similarity. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2016</b> , 27, 1814-1828	2.3	4
63	Nanopositioning Technologies. <b>2016</b> ,		29
62	Modeling and Identification of Piezoelectric-Actuated Stages Cascading Hysteresis Nonlinearity With Linear Dynamics. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2016</b> , 21, 1792-1797	5.5	69
61	Modeling and Control of Piezo-Actuated Nanopositioning Stages: A Survey. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2016</b> , 13, 313-332	4.9	306
60	High-Speed Tracking of a Nanopositioning Stage Using Modified Repetitive Control. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2017</b> , 14, 1467-1477	4.9	41
59	A Robust Repetitive-Control Design for a Class of Uncertain Stochastic Dynamical Systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2017</b> , 64, 427-431	3.5	22
58	EID estimator-based modified repetitive control for singular systems with time-varying delay. <i>Nonlinear Dynamics</i> , <b>2017</b> , 89, 1141-1156	5	26
57	Adaptive hysteresis compensation on an experimental nanopositioning platform. <i>International Journal of Control</i> , <b>2017</b> , 90, 765-778	1.5	11
56	Adaptive Sliding Mode Control of Hysteresis in Piezoelectric Actuator. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 15574-15579	1.5	11

55	Robust repetitive control for time delay systems with application to nano manipulations. <b>2017</b> ,		0
54	Modelling and control of piezoelectric actuators by a class of differential equations-based hysteresis models. <i>International Journal of Advanced Mechatronic Systems</i> , <b>2017</b> , 7, 165		0.2
53	Improving the tracking performance of atomic force microscope scanner with the modified rate-dependent Prandtl-Ishlinskii model. <b>2017</b> ,		
52	A Survey of Methods Used to Control Piezoelectric Tube Scanners in High-Speed AFM Imaging. <i>Asian Journal of Control</i> , <b>2018</b> , 20, 1379-1399	1.7	28
51	Non-linear contour tracking using feedback PID and feedforward position domain cross-coupled iterative learning control. <i>Transactions of the Institute of Measurement and Control</i> , <b>2018</b> , 40, 1970-1982	1.8	11
50	An incremental harmonic balance-based approach for harmonic analysis of closed-loop systems with Prandtl-Ishlinskii operator. <i>Automatica</i> , <b>2018</b> , 88, 48-56	5.7	5
49	Design of Repetitive Controller Using Optimization in Frequency Domain with Maximum Gain Constraints. <b>2018</b> ,		1
48	Generalized-Extended-State-Observer-Based Repetitive Control for MIMO Systems With Mismatched Disturbances. <i>IEEE Access</i> , <b>2018</b> , 6, 61377-61385	3.5	3
47	Fuzzy Adaptive Sliding Mode Control for the Precision Position of Piezo-Actuated Nano Positioning Stage. <i>International Journal of Precision Engineering and Manufacturing</i> , <b>2018</b> , 19, 1447-1456	1.7	15
46	Motion Control of Piezoelectric Actuator for High-Speed AFM Systems. <b>2019</b> ,		
45	Modified Repetitive Control Based Cross-Coupling Compensation Approach for the Piezoelectric Tube Scanner of Atomic Force Microscopes. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2019</b> , 24, 666-676	5.5	24
44	Hysteresis modeling and investigations of a piezoelectric ring bender using Bouc-Wen model. <i>MATEC Web of Conferences</i> , <b>2019</b> , 252, 05009	0.3	1
43	Predictive Control of Nano-positioning Stage Using Recurrent-neural-network-based Inversion Model. <b>2019</b> ,		0
42	A direct inverse hysteresis model and its application in reluctance actuators.. <b>2019</b> ,		1
41	An Efficient Identification Method for Dynamic Systems With Coupled Hysteresis and Linear Dynamics: Application to Piezoelectric-Actuated Nanopositioning Stages. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2019</b> , 24, 326-337	5.5	13
40	High-speed AFM imaging via iterative learning-based model predictive control. <i>Mechatronics</i> , <b>2019</b> , 57, 86-94	3	13
39	A two-stage model for rate-dependent inverse hysteresis in reluctance actuators. <i>Mechanical Systems and Signal Processing</i> , <b>2020</b> , 135, 106427	7.8	10
38	Parameters identification of Bouc-Wen hysteresis model for piezoelectric actuators using hybrid adaptive differential evolution and Jaya algorithm. <i>Engineering Applications of Artificial Intelligence</i> , <b>2020</b> , 87, 103317	7.2	34

37	Compliant, Large-Strain, and Self-Sensing Twisted String Actuators. <i>Soft Robotics</i> , <b>2020</b> ,	9.2	10
36	Discrete-Time Repetitive Control with a Range-Based Filter for Dual-Stage Systems. <b>2020</b> ,		
35	Precision Tracking Control of Piezoelectric-Driven Motion System Based on Enhanced ADRC. <b>2020</b> ,		0
34	Neural Network Self-Tuning Control for a Piezoelectric Actuator. <i>Sensors</i> , <b>2020</b> , 20,	3.8	8
33	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2020</b> , 25, 558-569	5.5	5
32	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2020</b> , 25, 547-557	5.5	6
31	A Survey on Modelling and Compensation for Hysteresis in High Speed Nanopositioning of AFMs: Observation and Future Recommendation. <i>International Journal of Automation and Computing</i> , <b>2020</b> , 17, 479-501	3.5	7
30	Enhanced Odd-Harmonic Repetitive Control of Nanopositioning Stages Using Spectrum-Selection Filtering Scheme for High-Speed Raster Scanning. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 18, 1087-1096	4.9	2
29	Decomposition-Learning-Based Output Tracking to Simultaneous Hysteresis and Dynamics Control: High-Speed Large-Range Nanopositioning Example. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 1775-1782	4.8	1
28	Neuro-intelligent networks for Bouc-Wen hysteresis model for piezostage actuator. <i>European Physical Journal Plus</i> , <b>2021</b> , 136, 1	3.1	16
27	Modeling and Inverse Compensation of the Quasi-static Voltage-Strain Lonely Stroke and Hysteresis in Supercoiled Polymer Artificial Muscles. <b>2021</b> ,		
26	Tracking Control Using Recurrent-Neural-Network-Based Inversion Model: A Case Study on a Piezo Actuator. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 11409-11419	8.9	2
25	Hysteresis with lonely stroke in artificial muscles: Characterization, modeling, and inverse compensation. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 164, 108240	7.8	2
24	Robust Nonlinear Control for a Piezoelectric Actuator in a Robotic Hand Using Only Position Measurements. <b>2022</b> , 6, 872-877		5
23	Fractional delay filter based repetitive control for precision tracking: Design and application to a piezoelectric nanopositioning stage. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 164, 108249	7.8	6
22	Modeling of Piezoelectric-Actuated Nanopositioning Stages Involving with the Hysteresis. <b>2016</b> , 183-212		2
21	Tracking and disturbance attenuation control for stochastic switched systems with input delay. <i>IET Control Theory and Applications</i> , <b>2020</b> , 14, 2847-2856	2.5	2
20	Integrated terminal sliding with enhanced repetitive control for nono-positioing stage. <b>2016</b> ,		2

19	Open loop control of piezoelectric tube transducer. <i>Archives of Mechanical Technology and Materials</i> , <b>2018</b> , 38, 23-28	0.2	4
18	3D Periodic Magnetic Servoing System for Microrobot Actuation Using Decoupled Asynchronous Repetitive Control Approach. <b>2021</b> ,		0
17	Kalman Filtering and State-Feedback Control of a Nonlinear Piezoelectric Cantilevered Actuator. <b>2013</b> , 149-169		1
16	Feedforward Control of Flexible and Nonlinear Piezoelectric Actuators. <b>2013</b> , 207-227		
15	Mikropozicionavimo sistemų taikant lanksius jungtis tyrimai. <b>2014</b> ,		
14	Noise in Nanopositioning Systems. <i>Advances in Industrial Control</i> , <b>2014</b> , 337-393	0.3	
13	Tracking Control for Nanopositioning Systems. <b>2016</b> , 213-244		0
12	Comparison of hysteresis of high accuracy positioning system with piezoelectric actuators. <i>Journal of Vibroengineering</i> , <b>2017</b> , 19, 3556-3563	0.5	
11	Closed-LSTM neural network based reference modification for trajectory tracking of piezoelectric actuator. <i>Neurocomputing</i> , <b>2022</b> , 467, 379-391	5.4	2
10	Model Predictive Control Based on the Generalized Bouc-Wen Model for Piezoelectric Actuators in Robotic Hand With Only Position Measurements. <b>2022</b> , 6, 2186-2191		4
9	Design and Positioning Control of a Flexure-Based Nano-positioning Stage Driven by Halbach Array Voice Coil Actuator. <i>International Journal of Precision Engineering and Manufacturing</i> , <b>2022</b> , 23, 281	1.7	
8	Gaussian process repetitive control: Beyond periodic internal models through kernels. <i>Automatica</i> , <b>2022</b> , 140, 110273	5.7	1
7	High performance raster scanning of atomic force microscopy using Model-free Repetitive Control. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 173, 109027	7.8	0
6	Hysteresis Modeling and Compensation of Piezoelectric Actuators Using Gaussian Process with High-Dimensional Input. <i>Actuators</i> , <b>2022</b> , 11, 115	2.4	1
5	Dual-Notch Based Repetitive Control for Tracking Lissajous Scan Trajectories with Piezo-Actuated Nano-Scanners. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 1-1	5.2	2
4	A Digital Observer-Based Repetitive Learning Composite Control Method for Large Range Piezo-Driven Nanopositioning Systems. <b>2022</b> , 10, 1092		0
3	Recent Development for Ultra-Precision Macro-Micro Dual-Drive System: A Review. <b>2023</b> , 11, 96		0
2	Repetitive control design for switched neutral systems with input time-delay.		0

1 Overtwisting and Coiling Highly Enhance Strain Generation of Twisted String Actuators.

o