S O Reza Moheimani

List of Publications by Year in Descending Order

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

143 papers

4,565 citations

33 h-index 65 g-index

164 ext. papers

5,321 ext. citations

avg, IF

6.05 L-index

#	Paper	IF	Citations
143	Q Control of an AFM Microcantilever with Double-Stack AlN Sensors and Actuators. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	2
142	Atomic-resolution lithography with an on-chip scanning tunneling microscope. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2022 , 40, 030603	1.3	О
141	A MEMS Nanopositioner With Integrated Tip for Scanning Tunneling Microscopy. <i>Journal of Microelectromechanical Systems</i> , 2021 , 30, 271-280	2.5	3
140	Modal Actuation and Sensing With an Active AFM Cantilever. <i>IEEE Sensors Journal</i> , 2021 , 21, 8950-8959	4	2
139	Ultrafast method for scanning tunneling spectroscopy. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2021 , 39, 042802	1.3	O
138	Iterative Learning Control for Video-Rate Atomic Force Microscopy. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 2127-2138	5.5	7
137	High signal-to-noise ratio differential conductance spectroscopy. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2021 , 39, 010601	1.3	1
136	Atomic precision imaging with an on-chip scanning tunneling microscope integrated into a commercial ultrahigh vacuum STM system. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2021 , 39, 040603	1.3	2
135	Convex Synthesis of SNI Controllers Based on Frequency-Domain Data: MEMS Nanopositioner Example. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-12	4.8	1
134	Controlled removal of hydrogen atoms from H-terminated silicon surfaces. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2020 , 38, 040601	1.3	3
133	High Dynamic Range AFM Cantilever With a Collocated Piezoelectric Actuator-Sensor Pair. <i>Journal of Microelectromechanical Systems</i> , 2020 , 29, 260-267	2.5	9
132	A High Dynamic Range Closed-Loop Stiffness-Adjustable MEMS Force Sensor. <i>Journal of Microelectromechanical Systems</i> , 2020 , 29, 397-407	2.5	3
131	A new approach to removing H atoms in hydrogen depassivation lithography 2020 ,		2
130	SOI-MEMS Bulk Piezoresistive Displacement Sensor: A Comparative Study of Readout Circuits. Journal of Microelectromechanical Systems, 2020 , 29, 43-53	2.5	3
129	AFM Microcantilever With a Collocated AlN Sensor-Actuator Pair: Enabling Efficient Q-Control for Dynamic Imaging. <i>Journal of Microelectromechanical Systems</i> , 2020 , 29, 661-668	2.5	6
128	FPGA-Based Characterization and Q-Control of an Active AFM Cantilever 2020,		2
127	Video-Rate Non-Raster AFM Imaging With Cycloid Trajectory. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 436-447	4.8	15

126	A High Dynamic Range AFM Probe with Collocated Piezoelectric Transducer Pairs 2020,		3
125	\$Q\$ Control of an Active AFM Cantilever With Differential Sensing Configuration. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 2271-2278	4.8	13
124	Scanning Tunneling Microscope Control: A Self-Tuning PI Controller Based on Online Local Barrier Height Estimation*. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 2004-2015	4.8	11
123	Rosette-scan video-rate atomic force microscopy: Trajectory patterning and control design. <i>Review of Scientific Instruments</i> , 2019 , 90, 073702	1.7	10
122	A high bandwidth microelectromechanical system-based nanopositioner for scanning tunneling microscopy. <i>Review of Scientific Instruments</i> , 2019 , 90, 073706	1.7	8
121	Characterization of a Tilted-beam Piezoresistive MEMS Sensor with Current-drive Readout Circuit 2019 ,		2
120	Iterative Learning Control for High-Speed Rosette Trajectory Tracking 2019,		2
119	Design, Fabrication, and Characterization of a Piezoelectric AFM Cantilever Array 2019,		3
118	On the effect of local barrier height in scanning tunneling microscopy: Measurement methods and control implications. <i>Review of Scientific Instruments</i> , 2018 , 89, 013701	1.7	11
117	A Novel State Transformation Approach to Tracking of Piecewise Linear Trajectories. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 128-138	4.8	6
116	A Novel Non-Raster Scan Method for AFM Imaging 2018 ,		3
115	Highly parallel scanning tunneling microscope based hydrogen depassivation lithography. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2018 , 36, 06JL05	1.3	8
114	. IEEE/ASME Transactions on Mechatronics, 2017 , 22, 371-380	5.5	40
113	. Journal of Microelectromechanical Systems, 2017 , 26, 215-225	2.5	25
112	MEMS for Nanopositioning: Design and Applications. <i>Journal of Microelectromechanical Systems</i> , 2017 , 26, 469-500	2.5	26
111	An SOI-MEMS Piezoelectric Torsional Stage With Bulk Piezoresistive Sensors. <i>IEEE Sensors Journal</i> , 2017 , 17, 3030-3040	4	4
110	Kalman Filter Enabled High-Speed Control of a MEMS Nanopositioner. IFAC-PapersOnLine, 2017, 50, 15	55 <i>54</i> 715	55 ø 0
109	A review of demodulation techniques for amplitude-modulation atomic force microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 1407-1426	3	29

108	On-Chip Feedthrough Cancellation Methods for Microfabricated AFM Cantilevers With Integrated Piezoelectric Transducers. <i>Journal of Microelectromechanical Systems</i> , 2017 , 26, 1287-1297	2.5	16
107	Stability analysis of a Scanning Tunneling Microscope control system 2017 ,		10
106	A self-tuning controller for high-performance scanning tunneling microscopy 2017 ,		6
105	Q control of a microfabricated piezoelectric cantilever with on-chip feedthrough cancellation 2017 ,		4
104	High-Bandwidth Demodulation in MF-AFM: A Kalman Filtering Approach. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 2705-2715	5.5	22
103	A Kalman Filter for Amplitude Estimation in High-Speed Dynamic Mode Atomic Force Microscopy. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 276-284	4.8	26
102	On the modeling of tilted fixed-guided flexible beams under tension. <i>Acta Mechanica</i> , 2016 , 227, 333-35	52 .1	3
101	Multimode \$Q\$ Control in Tapping-Mode AFM: Enabling Imaging on Higher Flexural Eigenmodes. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1149-1159	4.8	29
100	A 2DOF SOI-MEMS Nanopositioner With Tilted Flexure Bulk Piezoresistive Displacement Sensors. <i>IEEE Sensors Journal</i> , 2016 , 16, 1908-1917	4	20
99	Internal Model Control for Spiral Trajectory Tracking With MEMS AFM Scanners. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1717-1728	4.8	23
98	High-bandwidth multimode self-sensing in bimodal atomic force microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 284-95	3	30
97	A switched actuation and sensing method for a MEMS electrostatic drive 2016 ,		3
96	State estimation for high-speed multifrequency atomic force microscopy 2016 ,		4
95	A 4-DOF MEMS Energy Harvester Using Ultrasonic Excitation. <i>IEEE Sensors Journal</i> , 2016 , 16, 7774-7783	4	2
94	High-stroke silicon-on-insulator MEMS nanopositioner: control design for non-raster scan atomic force microscopy. <i>Review of Scientific Instruments</i> , 2015 , 86, 023705	1.7	21
93	MEMS Nanopositioner for On-Chip Atomic Force Microscopy: A Serial Kinematic Design. <i>Journal of Microelectromechanical Systems</i> , 2015 , 24, 1730-1740	2.5	7
92	. Journal of Microelectromechanical Systems, 2015 , 24, 1594-1605	2.5	16
91	Multi-Mode Q Control in Multifrequency Atomic Force Microscopy 2015 ,		2

(2014-2015)

90	Note: A silicon-on-insulator microelectromechanical systems probe scanner for on-chip atomic force microscopy. <i>Review of Scientific Instruments</i> , 2015 , 86, 046107	1.7	6
89	A High-Bandwidth MEMS Nanopositioner for On-Chip AFM: Design, Characterization, and Control. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 504-512	4.8	29
88	Tracking of spiral trajectories beyond scanner resonance frequency by a MEMS nanopositioner 2015 ,		1
87	. IEEE Nanotechnology Magazine, 2015 , 14, 338-345	2.6	23
86	4-DOF SOI-MEMS ultrasonic energy harvester 2015 ,		2
85	. Journal of Microelectromechanical Systems, 2015 , 24, 1164-1172	2.5	32
84	Vibration Control With MEMS Electrostatic Drives: A Self-Sensing Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 1237-1244	4.8	10
83	Video-Rate Lissajous-Scan Atomic Force Microscopy. <i>IEEE Nanotechnology Magazine</i> , 2014 , 13, 85-93	2.6	47
82	Control of a Novel 2-DoF MEMS Nanopositioner With Electrothermal Actuation and Sensing. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 1486-1497	4.8	20
81	A Comparison of Two Excitation Modes for MEMS Electrothermal Displacement Sensors. <i>IEEE</i>	4.4	1
01	Electron Device Letters, 2014 , 35, 584-586	4.4	1
80	Design and characterisation of a serial-kinematic nanopositioner for high-speed AFM 2014 ,	4·4	3
		4.4	
80	Design and characterisation of a serial-kinematic nanopositioner for high-speed AFM 2014 , A Comprehensive Analysis of MEMS Electrothermal Displacement Sensors. <i>IEEE Sensors Journal</i> ,	4-4	
8o 79	Design and characterisation of a serial-kinematic nanopositioner for high-speed AFM 2014 , A Comprehensive Analysis of MEMS Electrothermal Displacement Sensors. <i>IEEE Sensors Journal</i> , 2014 , 14, 3183-3192 Displacement Measurement With a Self-Sensing MEMS Electrostatic Drive. <i>Journal of</i>	4	3
80 79 78	Design and characterisation of a serial-kinematic nanopositioner for high-speed AFM 2014, A Comprehensive Analysis of MEMS Electrothermal Displacement Sensors. <i>IEEE Sensors Journal</i> , 2014, 14, 3183-3192 Displacement Measurement With a Self-Sensing MEMS Electrostatic Drive. <i>Journal of Microelectromechanical Systems</i> , 2014, 23, 511-513 Simultaneous Actuation and Sensing for Electrostatic Drives in MEMS using Frequency Modulated Capacitive Sensing. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> ,	4	3 3 18
80 79 78 77	Design and characterisation of a serial-kinematic nanopositioner for high-speed AFM 2014, A Comprehensive Analysis of MEMS Electrothermal Displacement Sensors. <i>IEEE Sensors Journal</i> , 2014, 14, 3183-3192 Displacement Measurement With a Self-Sensing MEMS Electrostatic Drive. <i>Journal of Microelectromechanical Systems</i> , 2014, 23, 511-513 Simultaneous Actuation and Sensing for Electrostatic Drives in MEMS using Frequency Modulated Capacitive Sensing. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 6545-6549 Novel Reciprocal Self-Sensing Techniques for Tapping-Mode Atomic Force Microscopy. <i>IFAC</i>	4	3 3 18
80 79 78 77 76	Design and characterisation of a serial-kinematic nanopositioner for high-speed AFM 2014, A Comprehensive Analysis of MEMS Electrothermal Displacement Sensors. <i>IEEE Sensors Journal</i> , 2014, 14, 3183-3192 Displacement Measurement With a Self-Sensing MEMS Electrostatic Drive. <i>Journal of Microelectromechanical Systems</i> , 2014, 23, 511-513 Simultaneous Actuation and Sensing for Electrostatic Drives in MEMS using Frequency Modulated Capacitive Sensing. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 6545-6549 Novel Reciprocal Self-Sensing Techniques for Tapping-Mode Atomic Force Microscopy. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 7474-7479 Sensorless Damping Control of a High Speed Flexure Guided Nanopositioner. <i>IFAC Postprint</i>	4	3 3 18

72	A serial-kinematic nanopositioner for high-speed atomic force microscopy. <i>Review of Scientific Instruments</i> , 2014 , 85, 105104	1.7	31
71	MEMS Nanopositioner for Lissajous-Scan Atomic Force Microscopy 2014 ,		2
7º	Zero displacement microelectromechanical force sensor using feedback control. <i>Applied Physics Letters</i> , 2014 , 104, 153502	3.4	13
69	Improvement of Transient Response in Signal Transformation Approach by Proper Compensator Initialization. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 729-736	4.8	8
68	. Journal of Microelectromechanical Systems, 2014 , 23, 610-619	2.5	40
67	Control of a piezoelectrically actuated high-speed serial-kinematic AFM nanopositioner. <i>Smart Materials and Structures</i> , 2014 , 23, 025030	3.4	31
66	Multi-mode resonant control of a microcantilever for Atomic Force Microscopy 2013,		5
65	Design, modeling, and characterization of a MEMS micro-gripper with an integrated electrothermal force sensor 2013 ,		3
64	A novel self-sensing technique for tapping-mode atomic force microscopy. <i>Review of Scientific Instruments</i> , 2013 , 84, 125006	1.7	30
63	Design and Analysis of Nonuniformly Shaped Heaters for Improved MEMS-Based Electrothermal Displacement Sensing. <i>Journal of Microelectromechanical Systems</i> , 2013 , 22, 687-694	2.5	18
62	Control of a high-speed nanopositioner for Lissajous-scan video-rate AFM 2013,		2
61	Active piezoelectric shunt control of an Atomic Force Microscope micro-cantilever 2013,		1
60	Design and Characterization of a 2-DOF MEMS Ultrasonic Energy Harvester With Triangular Electrostatic Electrodes. <i>IEEE Electron Device Letters</i> , 2013 , 34, 1421-1423	4.4	6
59	Realization of a class of compensators by modulated-demodulated structures with application in tracking of biased sinusoids 2013 ,		1
58	Guest Editorial Introduction to the Special Section on Advanced Servo Control for Emerging Data Storage Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 292-295	4.8	1
57	A Negative Imaginary Approach to Modeling and Control of a Collocated Structure. <i>IEEE/ASME Transactions on Mechatronics</i> , 2012 , 17, 717-727	5.5	84
56	Frequency Modulation Technique for MEMS Resistive Sensing. IEEE Sensors Journal, 2012, 12, 2690-269	984	16
55	Characterization of a 2-DoF MEMS nanopositioner with integrated electrothermal actuation and sensing 2012 ,		2

54	A 3-DoF MEMS ultrasonic energy harvester 2012 ,		9
53	A Switched Gain Resonant Controller to Minimize Image Artifacts in Intermittent Contact Mode Atomic Force Microscopy. <i>IEEE Nanotechnology Magazine</i> , 2012 , 11, 1126-1134	2.6	7
52	Signal Transformation Approach to Tracking Control With Arbitrary References. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 2294-2307	5.9	6
51	Tracking of Triangular References Using Signal Transformation for Control of a Novel AFM Scanner Stage. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 453-464	4.8	45
50	Control Methods in Data-Storage Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 296-322	4.8	24
49	High-speed Lissajous-scan atomic force microscopy: scan pattern planning and control design issues. <i>Review of Scientific Instruments</i> , 2012 , 83, 063701	1.7	107
48	Bidirectional Electrothermal Actuator With Z-Shaped Beams. <i>IEEE Sensors Journal</i> , 2012 , 12, 2508-2509	4	33
47	Quality factor enhancement of an Atomic Force Microscope micro-cantilever using piezoelectric shunt control 2012 ,		4
46	Analog implementation of a damping and tracking controller for a high-speed X-Y nanopositioner 2012 ,		2
45	Improved electrothermal position sensing in MEMS with non-uniformly shaped heaters 2012,		2
45 44	Improved electrothermal position sensing in MEMS with non-uniformly shaped heaters 2012 , A 2-DOF MEMS Ultrasonic Energy Harvester. <i>IEEE Sensors Journal</i> , 2011 , 11, 155-161	4	2 51
		0.5	
44	A 2-DOF MEMS Ultrasonic Energy Harvester. <i>IEEE Sensors Journal</i> , 2011 , 11, 155-161 High-Speed, Ultra-High-Precision Nanopositioning: A Signal Transformation Approach. <i>Lecture</i>	,	
44	A 2-DOF MEMS Ultrasonic Energy Harvester. <i>IEEE Sensors Journal</i> , 2011 , 11, 155-161 High-Speed, Ultra-High-Precision Nanopositioning: A Signal Transformation Approach. <i>Lecture Notes in Control and Information Sciences</i> , 2011 , 47-65 Integral Resonant Control for Vibration Damping and Precise Tip-Positioning of a Single-Link	0.5	51
44 43 42	A 2-DOF MEMS Ultrasonic Energy Harvester. <i>IEEE Sensors Journal</i> , 2011 , 11, 155-161 High-Speed, Ultra-High-Precision Nanopositioning: A Signal Transformation Approach. <i>Lecture Notes in Control and Information Sciences</i> , 2011 , 47-65 Integral Resonant Control for Vibration Damping and Precise Tip-Positioning of a Single-Link Flexible Manipulator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011 , 16, 232-240 \$Q\$ Control of an Atomic Force Microscope Microcantilever: A Sensorless Approach. <i>Journal of</i>	0.5	51
44 43 42 41	A 2-DOF MEMS Ultrasonic Energy Harvester. <i>IEEE Sensors Journal</i> , 2011 , 11, 155-161 High-Speed, Ultra-High-Precision Nanopositioning: A Signal Transformation Approach. <i>Lecture Notes in Control and Information Sciences</i> , 2011 , 47-65 Integral Resonant Control for Vibration Damping and Precise Tip-Positioning of a Single-Link Flexible Manipulator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011 , 16, 232-240 \$Q\$ Control of an Atomic Force Microscope Microcantilever: A Sensorless Approach. <i>Journal of Microelectromechanical Systems</i> , 2011 , 20, 1372-1381	0.5	51 117 44
44 43 42 41 40	A 2-DOF MEMS Ultrasonic Energy Harvester. <i>IEEE Sensors Journal</i> , 2011, 11, 155-161 High-Speed, Ultra-High-Precision Nanopositioning: A Signal Transformation Approach. <i>Lecture Notes in Control and Information Sciences</i> , 2011, 47-65 Integral Resonant Control for Vibration Damping and Precise Tip-Positioning of a Single-Link Flexible Manipulator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011, 16, 232-240 \$Q\$ Control of an Atomic Force Microscope Microcantilever: A Sensorless Approach. <i>Journal of Microelectromechanical Systems</i> , 2011, 20, 1372-1381 A novel serial-kinematic AFM scanner: Design and characterization 2011, A New Scanning Method for Fast Atomic Force Microscopy. <i>IEEE Nanotechnology Magazine</i> , 2011,	0.5 5.5 2.5	51 117 44 5

36	Atomic force microscopy with a 12-electrode piezoelectric tube scanner. <i>Review of Scientific Instruments</i> , 2010 , 81, 033701	1.7	29
35	Spiral-scan Atomic Force Microscopy: A constant linear velocity approach 2010 ,		7
34	. IEEE Transactions on Control Systems Technology, 2010 , 18, 1172-1179	4.8	99
33	A micromachined 2DOF nanopositioner with integrated capacitive displacement sensor 2010 ,		1
32	A New Method for Robust Damping and Tracking Control of Scanning Probe Microscope Positioning Stages. <i>IEEE Nanotechnology Magazine</i> , 2010 , 9, 438-448	2.6	130
31	Making a commercial atomic force microscope more accurate and faster using positive position feedback control. <i>Review of Scientific Instruments</i> , 2009 , 80, 063705	1.7	101
30	A new robust damping and tracking controller for SPM positioning stages 2009,		3
29	Signal transformation approach to fast nanopositioning. Review of Scientific Instruments, 2009, 80, 076	10:1 ₇	20
28	Fast spiral-scan atomic force microscopy. <i>Nanotechnology</i> , 2009 , 20, 365503	3.4	100
27	A new piezoelectric tube scanner for simultaneous sensing and actuation 2009,		6
26	Design, Identification, and Control of a Flexure-Based XY Stage for Fast Nanoscale Positioning. <i>IEEE Nanotechnology Magazine</i> , 2009 , 8, 46-54	2.6	257
25	A hybrid control strategy for vibration damping and precise tip-positioning of a single-link flexible manipulator 2009 ,		4
24	Tracking Control of a Nanopositioner Using Complementary Sensors. <i>IEEE Nanotechnology Magazine</i> , 2009 , 8, 55-65	2.6	19
23	Correction to "Minimizing Scanning Errors in Piezoelectric Stack-Actuated Nanopositioning Platforms" [Jan 08 79-90]. <i>IEEE Nanotechnology Magazine</i> , 2009 , 8, 560-560	2.6	1
22	2009,		3
21	Design, analysis and control of a fast nanopositioning stage 2008,		4
20	Integral Resonant Control of a Piezoelectric Tube Actuator for Fast Nanoscale Positioning. <i>IEEE/ASME Transactions on Mechatronics</i> , 2008 , 13, 530-537	5.5	113
19	Precise Tip Positioning of a Flexible Manipulator Using Resonant Control. <i>IEEE/ASME Transactions on Mechatronics</i> , 2008 , 13, 180-186	5.5	39

(2000-2008)

18	Achieving Subnanometer Precision in a MEMS-Based Storage Device During Self-Servo Write Process. <i>IEEE Nanotechnology Magazine</i> , 2008 , 7, 586-595	2.6	65	
17	High-bandwidth control of a piezoelectric nanopositioning stage in the presence of plant uncertainties. <i>Nanotechnology</i> , 2008 , 19, 125503	3.4	91	
16	Sensor Fusion for Improved Control of Piezoelectric Tube Scanners. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 1265-1276	4.8	49	
15	Minimizing Scanning Errors in Piezoelectric Stack-Actuated Nanopositioning Platforms. <i>IEEE Nanotechnology Magazine</i> , 2008 , 7, 79-90	2.6	99	
14	Model Predictive Control Applied to Constraint Handling in Active Noise and Vibration Control. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 3-12	4.8	80	
13	Invited review article: accurate and fast nanopositioning with piezoelectric tube scanners: emerging trends and future challenges. <i>Review of Scientific Instruments</i> , 2008 , 79, 071101	1.7	167	
12	Simultaneous sensing and actuation with a piezoelectric tube scanner. <i>Review of Scientific Instruments</i> , 2008 , 79, 073702	1.7	30	
11	Control of Resonant Acoustic Sound Fields by Electrical Shunting of a Loudspeaker. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 689-703	4.8	33	
10	Integral resonant control of collocated smart structures. Smart Materials and Structures, 2007, 16, 439-	-44364	139	
9	High-Performance Control of Piezoelectric Tube Scanners. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 853-866	4.8	123	
8	A Survey of Control Issues in Nanopositioning. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 802-823	4.8	723	
7	Adaptive multi-mode resonant piezoelectric shunt damping. <i>Smart Materials and Structures</i> , 2004 , 13, 1025-1035	3.4	76	
6	On the feedback structure of wideband piezoelectric shunt damping systems. <i>Smart Materials and Structures</i> , 2003 , 12, 49-56	3.4	35	
5	Spatial Control of Vibration. Series on Stability, Vibration and Control of Systems - Series A, 2003,		42	
4	Subspace-Based System Identification for an Acoustic Enclosure. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2002 , 124, 414-419	1.6	31	
3	Resonant controllers for smart structures. Smart Materials and Structures, 2002, 11, 1-8	3.4	145	
2	Minimizing the Truncation Error in Assumed Modes Models of Structures. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2000 , 122, 332-335	1.6	13	
1	Minimizing the Effect of Out of Bandwidth Modes in Truncated Structure Models. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2000 , 122, 237-239	1.6	23	