

Farid Tajaddodianfar

List of Publications by Year in descending order

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25
papers

528
citations

623188

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887659

17
g-index

25
all docs

25
docs citations

25
times ranked

433
citing authors

#	ARTICLE	IF	CITATIONS
1	Chaos prediction in MEMS-NEMS resonators. International Journal of Engineering Science, 2014, 82, 74-83.	2.7	63
2	Study of nonlinear dynamics and chaos in MEMS/NEMS resonators. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 611-622.	1.7	53
3	On the dynamics of bistable micro/nano resonators: Analytical solution and nonlinear behavior. Communications in Nonlinear Science and Numerical Simulation, 2015, 20, 1078-1089.	1.7	53
4	Nonlinear dynamics of MEMS/NEMS resonators: analytical solution by the homotopy analysis method. Microsystem Technologies, 2017, 23, 1913-1926.	1.2	51
5	Prediction of chaos in electrostatically actuated arch micro-nano resonators: Analytical approach. Communications in Nonlinear Science and Numerical Simulation, 2016, 30, 182-195.	1.7	37
6	Size-dependent bistability of an electrostatically actuated arch NEMS based on strain gradient theory. Journal Physics D: Applied Physics, 2015, 48, 245503.	1.3	35
7	On the Chaotic Vibrations of Electrostatically Actuated Arch Micro/Nano Resonators: A Parametric Study. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550106.	0.7	32
8	Observer-based adaptive stabilization of the fractional-order chaotic MEMS resonator. Nonlinear Dynamics, 2018, 92, 1079-1089.	2.7	29
9	Adaptive Synchronization of the Fractional-Order Chaotic Arch Micro-Electro-Mechanical System via Chebyshev Neural Network. IEEE Sensors Journal, 2018, 18, 3524-3532.	2.4	28
10	Continuum models calibrated with atomistic simulations for the transverse vibrations of silicon nanowires. International Journal of Engineering Science, 2016, 100, 8-24.	2.7	25
11	Adaptive chaos control of the fractional-order arch MEMS resonator. Nonlinear Dynamics, 2018, 91, 539-547.	2.7	23
12	Anti-oscillation and chaos control of the fractional-order brushless DC motor system via adaptive echo state networks. Journal of the Franklin Institute, 2018, 355, 6435-6453.	1.9	17
13	Scanning Tunneling Microscope Control: A Self-Tuning PI Controller Based on Online Local Barrier Height Estimation. IEEE Transactions on Control Systems Technology, 2019, 27, 2004-2015.	3.2	16
14	On the effect of local barrier height in scanning tunneling microscopy: Measurement methods and control implications. Review of Scientific Instruments, 2018, 89, 013701.	0.6	15
15	Classification of the nonlinear dynamics in an initially curved bistable micro/nano-electro-mechanical system resonator. Micro and Nano Letters, 2015, 10, 583-588.	0.6	12
16	Stability analysis of a Scanning Tunneling Microscope control system. , 2017, , .		10
17	Chaos and Adaptive Control of the Fractional-Order Magnetic-Field Electromechanical Transducer. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750203.	0.7	10
18	A self-tuning controller for high-performance scanning tunneling microscopy. , 2017, , .		9

#	ARTICLE	IF	CITATIONS
19	Chaos and Nonlinear Feedback Control of the Arch Micro-Electro-Mechanical System. Journal of Systems Science and Complexity, 2018, 31, 1510-1524.	1.6	5
20	Dynamics of bistable initially curved shallow microbeams: Effects of the electrostatic fringing fields. , 2014, , .		4
21	Nonlinear dynamics of electrostatically actuated micro-resonator: Analytical solution by homotopy perturbation method. , 2014, , .		1
22	Control Design and Passivity Analysis for Scaled One-Dimensional Bilateral Teleoperated Nanomanipulation. , 2009, , .		0
23	Design and Fuzzy Control of a Moving Magnetic Levitation Device for 3D Manipulation of Small Objects. , 2010, , .		0
24	Robust Stable Control of Haptic Devices Based on Transparency Maximization. , 2010, , .		0
25	Robustly Stabilizing Controller Synthesis for Haptic Devices With Maximized Transparency. , 2010, , .		0