Farid Tajaddodianfar

List of Publications by Year
in descending order

25	528	623734 14	888059 17
papers	citations	h-index	g-index

25	25	25	433
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	5.2	16
2	On the effect of local barrier height in scanning tunneling microscopy: Measurement methods and control implications. Review of Scientific Instruments, 2018, 89, 013701.	1.3	15
3	Observer-based adaptive stabilization of the fractional-order chaotic MEMS resonator. Nonlinear Dynamics, 2018, 92, 1079-1089.	5.2	29
4	Adaptive Synchronization of the Fractional-Order Chaotic Arch Micro-Electro-Mechanical System via Chebyshev Neural Network. IEEE Sensors Journal, 2018, 18, 3524-3532.	4.7	28
5	Adaptive chaos control of the fractional-order arch MEMS resonator. Nonlinear Dynamics, 2018, 91, 539-547.	5.2	23
6	Chaos and Nonlinear Feedback Control of the Arch Micro-Electro-Mechanical System. Journal of Systems Science and Complexity, 2018, 31, 1510-1524.	2.8	5
7	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.	3.4	17
8	Nonlinear dynamics of MEMS/NEMS resonators: analytical solution by the homotopy analysis method. Microsystem Technologies, 2017, 23, 1913-1926.	2.0	51
9	Stability analysis of a Scanning Tunneling Microscope control system. , 2017, , .		10
10	A self-tuning controller for high-performance scanning tunneling microscopy. , 2017, , .		9
11	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.	1.7	10
12	Continuum models calibrated with atomistic simulations for the transverse vibrations of silicon nanowires. International Journal of Engineering Science, 2016, 100, 8-24.	5.0	25
13	Prediction of chaos in electrostatically actuated arch micro-nano resonators: Analytical approach. Communications in Nonlinear Science and Numerical Simulation, 2016, 30, 182-195.	3.3	37
14	Size-dependent bistability of an electrostatically actuated arch NEMS based on strain gradient theory. Journal Physics D: Applied Physics, 2015, 48, 245503.	2.8	35
15	Classification of the nonlinear dynamics in an initially curved bistable micro/nanoâ€electroâ€mechanical system resonator. Micro and Nano Letters, 2015, 10, 583-588.	1.3	12
16	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.	1.7	32
17	Study of nonlinear dynamics and chaos in MEMS/NEMS resonators. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 611-622.	3.3	53
18	On the dynamics of bistable micro/nano resonators: Analytical solution and nonlinear behavior. Communications in Nonlinear Science and Numerical Simulation, 2015, 20, 1078-1089.	3.3	53

#	ARTICLE	IF	CITATIONS
19	Dynamics of bistable initially curved shallow microbeams: Effects of the electrostatic fringing fields. , 2014, , .		4
20	Nonlinear dynamics of electrostatically actuated micro-resonator: Analytical solution by homotopy perturbation method. , 2014, , .		1
21	Chaos prediction in MEMS-NEMS resonators. International Journal of Engineering Science, 2014, 82, 74-83.	5.0	63
22	Design and Fuzzy Control of a Moving Magnetic Levitation Device for 3D Manipulation of Small Objects. , 2010, , .		0
23	Robust Stable Control of Haptic Devices Based on Transparency Maximization. , 2010, , .		0
24	Robustly Stabilizing Controller Synthesis for Haptic Devices With Maximized Transparency. , 2010, , .		0
25	Control Design and Passivity Analysis for Scaled One-Dimensional Bilateral Teleoperated Nanomanipulation. , 2009, , .		0