And Maide Bucolo

List of Publications by Year
in descending order

46	756	567281 15	526287 27
papers	citations	h-index	g-index

46	46	46	728
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Control of imperfect dynamical systems. Nonlinear Dynamics, 2019, 98, 2989-2999.	5.2	112
2	THE CNN PARADIGM: SHAPES AND COMPLEXITY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 2063-2090.	1.7	103
3	Imperfections in Integrated Devices Allow the Emergence of Unexpected Strange Attractors in Electronic Circuits. IEEE Access, 2021, 9, 29573-29583.	4.2	55
4	Experimental study on the slug flow in a serpentine microchannel. Experimental Thermal and Fluid Science, 2016, 76, 34-44.	2.7	34
5	Computational models in microfluidic bubble logic. Microfluidics and Nanofluidics, 2015, 18, 305-321.	2.2	32
6	A polymeric micro-optical system for the spatial monitoring in two-phase microfluidics. Microfluidics and Nanofluidics, 2012, 12, 165-174.	2.2	30
7	Micro-optofluidic switch realized by 3D printing technology. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	28
8	Nonlinear systems synchronization for modeling two-phase microfluidics flows. Nonlinear Dynamics, 2018, 92, 75-84.	5.2	27
9	Experimental classification of nonlinear dynamics in microfluidic bubblesâ€™ flow. Nonlinear Dynamics, 2012, 67, 2807-2819.	5.2	24
10	Real-Time Detection of Slug Velocity in Microchannels. Micromachines, 2020, 11, 241.	2.9	23
11	Can Noise in the Feedback Improve the Performance of a Control System?. Journal of the Physical Society of Japan, 2021, 90, 075002.	1.6	23
12	An Improved Instrument for Real-Time Measurement of Blood Flow Velocity in Microvessels. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 2663-2671.	4.7	22
13	Periodic input flows tuning nonlinear two-phase dynamics in a snake microchannel. Microfluidics and Nanofluidics, 2011, 11, 189-197.	2.2	22
14	Bio-Microfluidics Real-Time Monitoring Using CNN Technology. IEEE Transactions on Biomedical Circuits and Systems, 2008, 2, 78-87.	4.0	20
15	A Real Time Feed Forward Control of Slug Flow in Microchannels â€. Energies, 2019, 12, 2556.	3.1	20
16	A polymeric micro-optical interface for flow monitoring in biomicrofluidics. Biomicrofluidics, 2010, 4, 024108.	2.4	16
17	Bifurcation scenarios for pilot induced oscillations. Aerospace Science and Technology, 2020, 106, 106194.	4.8	15
18	Force Feedback Assistance in Remote Ultrasound Scan Procedures. Energies, 2020, 13, 3376.	3.1	14

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19	Automation of the Leonardo da Vinci Machines. Machines, 2020, 8, 53.	2.2	13
20	3D-Printed micro-optofluidic device for chemical fluids and cells detection. Biomedical Microdevices, 2020, 22, 37.	2.8	13
21	Multiple Hysteresis Jump Resonance in a Class of Forced Nonlinear Circuits and Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050258.	1.7	12
22	Chaos Addresses Energy in Networks of Electrical Oscillators. IEEE Access, 2021, 9, 153258-153265.	4.2	12
23	Reviewing Bioinspired Technologies for Future Trends: A Complex Systems Point of View. Frontiers in Physics, 2021, 9, .	2.1	10
24	Remote Ultrasound Scan Procedures with Medical Robots: Towards New Perspectives between Medicine and Engineering. Applied Bionics and Biomechanics, 2022, 2022, 1-12.	1.1	9
25	Projection micro-stereolithography versus masterâ€“slave approach to manufacture a micro-optofluidic device for slug flow detection. International Journal of Advanced Manufacturing Technology, 2022, 120, 4443-4460.	3.0	8
26	Nyquist Plots for MIMO Systems Under Frequency Transformations. , 2022, 6, 169-174.		6
27	FROM LOCAL ACTIVITY LEMMA BEYOND THE WAVE COMPUTATION REACTIONâ€“DIFFUSION CNN BASED NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 411-417.	1.7	5
28	Quantitative analysis of spatial irregularities in RBCs flows. Chaos, Solitons and Fractals, 2018, 115, 349-355.	5.1	5
29	A Comparative Analysis of Computer-Aided Design Tools for Complex Power Electronics Systems. Energies, 2021, 14, 7729.	3.1	5
30	Micro-Optical Waveguides Realization by Low-Cost Technologies. Micro, 2022, 2, 123-136.	2.0	5
31	Model Identification to Validate Printed Circuit Boards for Power Applications: A New Technique. IEEE Access, 2022, 10, 31760-31774.	4.2	4
32	Forward action to make time-delay systems positive-real or negative-imaginary. Systems and Control Letters, 2019, 131, 104495.	2.3	3
33	Hankel Singular Values and LQG Characteristic Values of Discrete-Time Linear Systems in Cascade With Inner Systems. IEEE Transactions on Automatic Control, 2020, 65, 4989-4994.	5.7	3
34	LQG control of linear lossless positive-real systems: the continuous-time and discrete-time cases. International Journal of Dynamics and Control, 0, , 1.	2.5	3
35	Turing patterns in the simplest MCNN. Nonlinear Theory and Its Applications IEICE, 2019, 10, 390-398.	0.6	3
36	Stochastic Resonance in Electromechanical Vibrating Systems. Journal of the Physical Society of Japan, 2020, 89, 115001.	1.6	3

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37	Ebatronics: A New Paradigm for Experimental Laboratory in Applied Science and Technology. The Physics Educator, 2021, 03, .	0.4	3
38	3D Printing Manufacturing of Polydimethyl-Siloxane/Zinc Oxide Micro-Optofluidic Device for Two-Phase Flows Control. Polymers, 2022, 14, 2113.	4.5	3
39	Which method should be used for brain connectivity analysis?. , 2013, , .		2
40	A New Time-Delay Model for Chaotic Glucose-Insulin Regulatory System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050178.	1.7	2
41	Generalizing the Letov formula for the discrete-time case. International Journal of Dynamics and Control, 0, , .	2.5	2
42	Spatial Disorder in Complex Neuro-Fuzzy Dynamics. Progress of Theoretical Physics Supplement, 2000, 139, 445-452.	0.1	1
43	The generalized Letov formula for MIMO not-strictly proper systems. International Journal of Dynamics and Control, 0, , 1.	2.5	1
44	CNN-based trajectory analysis of flagellar bacteria for nanoscale motion control. International Journal of Circuit Theory and Applications, 2004, 32, 439-446.	2.0	0
45	Nyquist plots under frequency transformations: the discrete-time case. , 2022, , 1-1.		0
46	A New Asymptotic Stability Criterion for Linear Discrete-time Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, , 1-1.	3.0	0