And Maide Bucolo

List of Publications by Year
in descending order

46 papers	756 citations	567281 15 h-index	526287 27 g-index
46 all docs	46 docs citations	46 times ranked	728 citing authors

#	Article	IF	Citations
1	Nyquist Plots for MIMO Systems Under Frequency Transformations. , 2022, 6, 169-174.		6
2	Micro-Optical Waveguides Realization by Low-Cost Technologies. Micro, 2022, 2, 123-136.	2.0	5
3	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
4	Model Identification to Validate Printed Circuit Boards for Power Applications: A New Technique. IEEE Access, 2022, 10, 31760-31774.	4.2	4
5	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
6	3D Printing Manufacturing of Polydimethyl-Siloxane/Zinc Oxide Micro-Optofluidic Device for Two-Phase Flows Control. Polymers, 2022, 14, 2113.	4.5	3
7	Nyquist plots under frequency transformations: the discrete-time case. , 2022, , 1-1.		0
8	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
9	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
10	Imperfections in Integrated Devices Allow the Emergence of Unexpected Strange Attractors in Electronic Circuits. IEEE Access, 2021, 9, 29573-29583.	4.2	55
11	Reviewing Bioinspired Technologies for Future Trends: A Complex Systems Point of View. Frontiers in Physics, 2021, 9, .	2.1	10
12	A Comparative Analysis of Computer-Aided Design Tools for Complex Power Electronics Systems. Energies, 2021, 14, 7729.	3.1	5
13	Chaos Addresses Energy in Networks of Electrical Oscillators. IEEE Access, 2021, 9, 153258-153265.	4.2	12
14	Ebatronics: A New Paradigm for Experimental Laboratory in Applied Science and Technology. The Physics Educator, 2021, 03, .	0.4	3
15	Automation of the Leonardo da Vinci Machines. Machines, 2020, 8, 53.	2.2	13
16	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
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	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
20	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
21	3D-Printed micro-optofluidic device for chemical fluids and cells detection. Biomedical Microdevices, 2020, 22, 37.	2.8	13
22	Real-Time Detection of Slug Velocity in Microchannels. Micromachines, 2020, 11, 241.	2.9	23
23	Stochastic Resonance in Electromechanical Vibrating Systems. Journal of the Physical Society of Japan, 2020, 89, 115001.	1.6	3
24	A Real Time Feed Forward Control of Slug Flow in Microchannels â€. Energies, 2019, 12, 2556.	3.1	20
25	Control of imperfect dynamical systems. Nonlinear Dynamics, 2019, 98, 2989-2999.	5.2	112
26	Forward action to make time-delay systems positive-real or negative-imaginary. Systems and Control Letters, 2019, 131, 104495.	2.3	3
27	Turing patterns in the simplest MCNN. Nonlinear Theory and Its Applications IEICE, 2019, 10, 390-398.	0.6	3
28	Nonlinear systems synchronization for modeling two-phase microfluidics flows. Nonlinear Dynamics, 2018, 92, 75-84.	5.2	27
29	Quantitative analysis of spatial irregularities in RBCs flows. Chaos, Solitons and Fractals, 2018, 115, 349-355.	5.1	5
30	Micro-optofluidic switch realized by 3D printing technology. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	28
31	Experimental study on the slug flow in a serpentine microchannel. Experimental Thermal and Fluid Science, 2016, 76, 34-44.	2.7	34
32	Computational models in microfluidic bubble logic. Microfluidics and Nanofluidics, 2015, 18, 305-321.	2.2	32
33	Which method should be used for brain connectivity analysis?. , 2013, , .		2
34	Experimental classification of nonlinear dynamics in microfluidic bubblesâ€™ flow. Nonlinear Dynamics, 2012, 67, 2807-2819.	5.2	24
35	A polymeric micro-optical system for the spatial monitoring in two-phase microfluidics. Microfluidics and Nanofluidics, 2012, 12, 165-174.	2.2	30
36	Periodic input flows tuning nonlinear two-phase dynamics in a snake microchannel. Microfluidics and Nanofluidics, 2011, 11, 189-197.	2.2	22

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37	A polymeric micro-optical interface for flow monitoring in biomicrofluidics. Biomicrofluidics, 2010, 4, 024108.	2.4	16
38	Bio-Microfluidics Real-Time Monitoring Using CNN Technology. IEEE Transactions on Biomedical Circuits and Systems, 2008, 2, 78-87.	4.0	20
39	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
40	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
41	THE CNN PARADIGM: SHAPES AND COMPLEXITY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 2063-2090.	1.7	103
42	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
43	Spatial Disorder in Complex Neuro-Fuzzy Dynamics. Progress of Theoretical Physics Supplement, 2000, 139, 445-452.	0.1	1
44	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
45	The generalized Letov formula for MIMO not-strictly proper systems. International Journal of Dynamics and Control, 0, , 1.	2.5	1
46	Generalizing the Letov formula for the discrete-time case. International Journal of Dynamics and Control, 0, , .	2.5	2