

# Mauro Parodi

## List of Publications by Citations

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35  
papers

300  
citations

10  
h-index

16  
g-index

38  
ext. papers

327  
ext. citations

2.8  
avg, IF

2.66  
L-index

#	Paper	IF	Citations
35	A modular supervised algorithm for vessel segmentation in red-free retinal images. <i>Computers in Biology and Medicine</i> , <b>2008</b> , 38, 913-22	7	37
34	A method for the approximate synthesis of cellular non-linear networks Part 1: Circuit definition. <i>International Journal of Circuit Theory and Applications</i> , <b>2003</b> , 31, 277-297	2	27
33	Synthesis of multiport resistors with piecewise-linear characteristics: a mixed-signal architecture. <i>International Journal of Circuit Theory and Applications</i> , <b>2005</b> , 33, 307-319	2	26
32	A PWL ladder circuit which exhibits hysteresis. <i>International Journal of Circuit Theory and Applications</i> , <b>1994</b> , 22, 513-526	2	25
31	Towards analog implementations of PWL two-dimensional non-linear functions. <i>International Journal of Circuit Theory and Applications</i> , <b>2005</b> , 33, 147-160	2	19
30	A method for the approximate synthesis of cellular non-linear networks Part 2: Circuit reduction. <i>International Journal of Circuit Theory and Applications</i> , <b>2003</b> , 31, 299-313	2	16
29	Toward molecular electronics. Self-screening of molecular wires. <i>Cell Biophysics</i> , <b>1985</b> , 7, 215-35		16
28	A hysteresis-based chaotic circuit: dynamics and applications. <i>International Journal of Circuit Theory and Applications</i> , <b>1999</b> , 27, 527-542	2	14
27	A unifying approach for obtaining closed-form expressions of mixtures permittivity. <i>Journal of Electrostatics</i> , <b>1984</b> , 15, 183-195	1.7	12
26	A Circuit Model of Hysteresis and Creep. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2015</b> , 62, 501-505	3.5	10
25	Static and dynamic hysteretic features in a PWL circuit. <i>International Journal of Circuit Theory and Applications</i> , <b>1996</b> , 24, 183-199	2	10
24	Simulations of the behavior of synaptically driven neurons via time-invariant circuit models. <i>IEEE Transactions on Biomedical Engineering</i> , <b>1997</b> , 44, 1282-7	5	9
23	On a circuit representation of the Hodgkin and Huxley nerve axon membrane equations. <i>International Journal of Circuit Theory and Applications</i> , <b>1997</b> , 25, 115-124	2	6
22	Cellular non-linear networks for minimization of functionals. Part 1: Theoretical aspects. <i>International Journal of Circuit Theory and Applications</i> , <b>2001</b> , 29, 151-167	2	6
21	A variational approach to non-linear dielectrics: Application to polyelectrolytes. <i>Journal of Electrostatics</i> , <b>1987</b> , 20, 219-232	1.7	6
20	Model Reduction for Optimized Online Compensation of Hysteresis and Creep in Piezoelectric Actuators. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2018</b> , 65, 1748-1752	3.5	5
19	On the representation of static hysteresis curves by a PWL ladder circuit. <i>International Journal of Circuit Theory and Applications</i> , <b>1998</b> , 26, 167-177	2	5

18	Cellular non-linear networks for minimization of functionals. Part 2: Examples. <i>International Journal of Circuit Theory and Applications</i> , <b>2001</b> , 29, 169-184	2	5
17	A continuous model of the interactions among electric dipoles. <i>Journal of Electrostatics</i> , <b>1991</b> , 26, 47-64	1.7	5
16	Modelling of dipole monolayers as cellular arrays. <i>Journal of Molecular Liquids</i> , <b>1991</b> , 50, 73-92	6	5
15	Behaviour of mobile ions near a charged cylindrical surface: Application to linear polyelectrolytes. <i>Journal of Electrostatics</i> , <b>1985</b> , 17, 255-268	1.7	5
14	Hysteresis and creep: Comparison between a power-law model and Kuhneng model. <i>Physica B: Condensed Matter</i> , <b>2016</b> , 486, 2-6	2.8	5
13	Piecewise linear approximations of multivariate functions: A multiresolution-based compression algorithm suitable for circuit implementation. <i>Applied Numerical Mathematics</i> , <b>2010</b> , 60, 924-933	2.5	4
12	Circuit realization of Markov random fields for analog image processing. <i>International Journal of Circuit Theory and Applications</i> , <b>1998</b> , 26, 477-498	2	4
11	A procedure for the computation of accurate PWL approximations of non-linear dynamical systems. <i>International Journal of Circuit Theory and Applications</i> , <b>2006</b> , 34, 237-248	2	4
10	Learning the mean: A neural network approach. <i>Neurocomputing</i> , <b>2012</b> , 77, 129-143	5.4	3
9	A cellular non-linear network for image fusion based on data regularization. <i>International Journal of Circuit Theory and Applications</i> , <b>2006</b> , 34, 533-546	2	3
8	A method for defining analog circuits for the minimization of discrete functionals: An image processing application. <i>Circuits, Systems, and Signal Processing</i> , <b>1999</b> , 18, 457-477	2.2	2
7	Hysteresis in electric dipole monolayers. <i>Journal of Electrostatics</i> , <b>1994</b> , 32, 183-213	1.7	2
6	Surface organization of dipole monolayers. <i>Journal of Molecular Liquids</i> , <b>1992</b> , 51, 89-113	6	2
5	A neural model approach for regularization in the mean estimation case <b>2010</b> ,		1
4	Some theoretical results on the behaviour of Na and K currents in excitable membranes under voltage waveforms of various shape and frequency. <i>Bioelectrochemistry</i> , <b>1982</b> , 9, 603-613		1
3	Dipole monolayer behaviour in the presence of electrodes. <i>Journal of Electrostatics</i> , <b>1996</b> , 37, 95-120	1.7	0
2	Modelling the influence of electrodes on a lipid monolayer. <i>Sensors and Actuators B: Chemical</i> , <b>1992</b> , 7, 419-423	8.5	
1	Some theoretical results on the behaviour of Na and K currents in excitable membranes under voltage waveforms of various shape and frequency. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , <b>1982</b> , 141, 603-613		

