

# Mauro Parodi

## List of Publications by Year in descending order

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38  
papers

357  
citations

840119

11  
h-index

887659

17  
g-index

38  
all docs

38  
docs citations

38  
times ranked

177  
citing authors

#	ARTICLE	IF	CITATIONS
1	A modular supervised algorithm for vessel segmentation in red-free retinal images. <i>Computers in Biology and Medicine</i> , 2008, 38, 913-922.	3.9	41
2	A method for the approximate synthesis of cellular non-linear networks?Part 1: Circuit definition. <i>International Journal of Circuit Theory and Applications</i> , 2003, 31, 277-297.	1.3	33
3	A PWL ladder circuit which exhibits hysteresis. <i>International Journal of Circuit Theory and Applications</i> , 1994, 22, 513-526.	1.3	29
4	Synthesis of multiport resistors with piecewise-linear characteristics: a mixed-signal architecture. <i>International Journal of Circuit Theory and Applications</i> , 2005, 33, 307-319.	1.3	27
5	Towards analog implementations of PWL two-dimensional non-linear functions. <i>International Journal of Circuit Theory and Applications</i> , 2005, 33, 147-160.	1.3	20
6	A hysteresis-based chaotic circuit: dynamics and applications. <i>International Journal of Circuit Theory and Applications</i> , 1999, 27, 527-542.	1.3	19
7	Toward molecular electronics. <i>Cell Biophysics</i> , 1985, 7, 215-235.	0.4	18
8	A method for the approximate synthesis of cellular non-linear networks?Part 2: Circuit reduction. <i>International Journal of Circuit Theory and Applications</i> , 2003, 31, 299-313.	1.3	18
9	Static and dynamic hysteretic features in a PWL circuit. <i>International Journal of Circuit Theory and Applications</i> , 1996, 24, 183-199.	1.3	14
10	A unifying approach for obtaining closed-form expressions of mixtures permittivity. <i>Journal of Electrostatics</i> , 1984, 15, 183-195.	1.0	13
11	A Circuit Model of Hysteresis and Creep. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2015, 62, 501-505.	2.2	12
12	Simulations of the behavior of synaptically driven neurons via time-invariant circuit models. <i>IEEE Transactions on Biomedical Engineering</i> , 1997, 44, 1282-1287.	2.5	10
13	Model Reduction for Optimized Online Compensation of Hysteresis and Creep in Piezoelectric Actuators. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018, 65, 1748-1752.	2.2	9
14	Modelling of dipole monolayers as cellular arrays. <i>Journal of Molecular Liquids</i> , 1991, 50, 73-92.	2.3	8
15	On a circuit representation of the Hodgkin and Huxley nerve axon membrane equations. <i>International Journal of Circuit Theory and Applications</i> , 1997, 25, 115-124.	1.3	8
16	A variational approach to non-linear dielectrics: Application to polyelectrolytes. <i>Journal of Electrostatics</i> , 1987, 20, 219-232.	1.0	7
17	Cellular non-linear networks for minimization of functionals. Part 1: Theoretical aspects. <i>International Journal of Circuit Theory and Applications</i> , 2001, 29, 151-167.	1.3	7
18	A continuous model of the interactions among electric dipoles. <i>Journal of Electrostatics</i> , 1991, 26, 47-64.	1.0	6

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19	On the representation of static hysteresis curves by a PWL ladder circuit. International Journal of Circuit Theory and Applications, 1998, 26, 167-177.	1.3	6
20	Cellular non-linear networks for minimization of functionals. Part 2: Examples. International Journal of Circuit Theory and Applications, 2001, 29, 169-184.	1.3	6
21	Behaviour of mobile ions near a charged cylindrical surface: Application to linear polyelectrolytes. Journal of Electrostatics, 1985, 17, 255-268.	1.0	5
22	Circuit realization of Markov random fields for analog image processing. International Journal of Circuit Theory and Applications, 1998, 26, 477-498.	1.3	5
23	A procedure for the computation of accurate PWL approximations of non-linear dynamical systems. International Journal of Circuit Theory and Applications, 2006, 34, 237-248.	1.3	5
24	Hysteresis and creep: Comparison between a power-law model and Kuhnen's model. Physica B: Condensed Matter, 2016, 486, 2-6.	1.3	5
25	Surface organization of dipole monolayers. Journal of Molecular Liquids, 1992, 51, 89-113.	2.3	4
26	Hysteresis in electric dipole monolayers. Journal of Electrostatics, 1994, 32, 183-213.	1.0	4
27	Piecewise linear approximations of multivariate functions: A multiresolution-based compression algorithm suitable for circuit implementation. Applied Numerical Mathematics, 2010, 60, 924-933.	1.2	4
28	Learning the mean: A neural network approach. Neurocomputing, 2012, 77, 129-143.	3.5	4
29	A method for defining analog circuits for the minimization of discrete functionals: An image processing application. Circuits, Systems, and Signal Processing, 1999, 18, 457-477.	1.2	3
30	A cellular non-linear network for image fusion based on data regularization. International Journal of Circuit Theory and Applications, 2006, 34, 533-546.	1.3	3
31	Dipole monolayer behaviour in the presence of electrodes. Journal of Electrostatics, 1996, 37, 95-120.	1.0	2
32	Some theoretical results on the behaviour of Na and K currents in excitable membranes under voltage waveforms of various shape and frequency. Bioelectrochemistry, 1982, 9, 603-613.	1.0	1
33	A neural model approach for regularization in the mean estimation case. , 2010, , .		1
34	513â€”Some theoretical results on the behaviour of Na and K currents in excitable membranes under voltage waveforms of various shape and frequency. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1982, 141, 603-613.	0.3	0
35	Characterization of a cellular array of dipoles for molecular information processing. AIP Conference Proceedings, 1992, , .	0.3	0
36	Modelling the influence of electrodes on a lipid monolayer. Sensors and Actuators B: Chemical, 1992, 7, 419-423.	4.0	0

#	ARTICLE	IF	CITATIONS
37	Circuit implementation of SVM training. , 2009, , .		0
38	A circuit model for open-loop compensation of hysteresis. , 2016, , .		0