

Mauro Parodi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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	3.5	5
34	Hysteresis and creep: Comparison between a power-law model and Kuhnens model. <i>Physica B: Condensed Matter</i> , 2016 , 486, 2-6	2.8	5
33	A Circuit Model of Hysteresis and Creep. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2015 , 62, 501-505	3.5	10
32	Learning the mean: A neural network approach. <i>Neurocomputing</i> , 2012 , 77, 129-143	5.4	3
31	A neural model approach for regularization in the mean estimation case 2010 ,		1
30	Piecewise linear approximations of multivariate functions: A multiresolution-based compression algorithm suitable for circuit implementation. <i>Applied Numerical Mathematics</i> , 2010 , 60, 924-933	2.5	4
29	A modular supervised algorithm for vessel segmentation in red-free retinal images. <i>Computers in Biology and Medicine</i> , 2008 , 38, 913-22	7	37
28	A cellular non-linear network for image fusion based on data regularization. <i>International Journal of Circuit Theory and Applications</i> , 2006 , 34, 533-546	2	3
27	A procedure for the computation of accurate PWL approximations of non-linear dynamical systems. <i>International Journal of Circuit Theory and Applications</i> , 2006 , 34, 237-248	2	4
26	Towards analog implementations of PWL two-dimensional non-linear functions. <i>International Journal of Circuit Theory and Applications</i> , 2005 , 33, 147-160	2	19
25	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	2	26
24	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	2	27
23	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	2	16
22	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	2	6
21	Cellular non-linear networks for minimization of functionals. Part 2: Examples. <i>International Journal of Circuit Theory and Applications</i> , 2001 , 29, 169-184	2	5
20	A method for defining analog circuits for the minimization of discrete functionals: An image processing application. <i>Circuits, Systems, and Signal Processing</i> , 1999 , 18, 457-477	2.2	2
19	A hysteresis-based chaotic circuit: dynamics and applications. <i>International Journal of Circuit Theory and Applications</i> , 1999 , 27, 527-542	2	14

18	On the representation of static hysteresis curves by a PWL ladder circuit. <i>International Journal of Circuit Theory and Applications</i> , 1998 , 26, 167-177	2	5
17	Circuit realization of Markov random fields for analog image processing. <i>International Journal of Circuit Theory and Applications</i> , 1998 , 26, 477-498	2	4
16	Simulations of the behavior of synaptically driven neurons via time-invariant circuit models. <i>IEEE Transactions on Biomedical Engineering</i> , 1997 , 44, 1282-7	5	9
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	2	6
14	Static and dynamic hysteretic features in a PWL circuit. <i>International Journal of Circuit Theory and Applications</i> , 1996 , 24, 183-199	2	10
13	Dipole monolayer behaviour in the presence of electrodes. <i>Journal of Electrostatics</i> , 1996 , 37, 95-120	1.7	0
12	A PWL ladder circuit which exhibits hysteresis. <i>International Journal of Circuit Theory and Applications</i> , 1994 , 22, 513-526	2	25
11	Hysteresis in electric dipole monolayers. <i>Journal of Electrostatics</i> , 1994 , 32, 183-213	1.7	2
10	Modelling the influence of electrodes on a lipid monolayer. <i>Sensors and Actuators B: Chemical</i> , 1992 , 7, 419-423	8.5	
9	Surface organization of dipole monolayers. <i>Journal of Molecular Liquids</i> , 1992 , 51, 89-113	6	2
8	A continuous model of the interactions among electric dipoles. <i>Journal of Electrostatics</i> , 1991 , 26, 47-64	1.7	5
7	Modelling of dipole monolayers as cellular arrays. <i>Journal of Molecular Liquids</i> , 1991 , 50, 73-92	6	5
6	A variational approach to non-linear dielectrics: Application to polyelectrolytes. <i>Journal of Electrostatics</i> , 1987 , 20, 219-232	1.7	6
5	Behaviour of mobile ions near a charged cylindrical surface: Application to linear polyelectrolytes. <i>Journal of Electrostatics</i> , 1985 , 17, 255-268	1.7	5
4	Toward molecular electronics. Self-screening of molecular wires. <i>Cell Biophysics</i> , 1985 , 7, 215-35		16
3	A unifying approach for obtaining closed-form expressions of mixtures permittivity. <i>Journal of Electrostatics</i> , 1984 , 15, 183-195	1.7	12
2	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> , 1982 , 141, 603-613		
1	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> , 1982 , 9, 603-613		1

