

# Orla Feely

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8821287/orla-feely-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

56

papers

447

citations

13

h-index

18

g-index

74

ext. papers

546

ext. citations

2.5

avg, IF

3.52

L-index

#	Paper	IF	Citations
56	Generation of a Clocking Signal in Synchronized All-Digital PLL Networks. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2018</b> , 65, 809-813	3.5	5
55	§SigmaDelta§ Effects and Charge Locking in Capacitive MEMS Under Dielectric Charge Control. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2017</b> , 64, 206-210	3.5	2
54	Analysis and Modelling of Nonlinearities in Vibration Energy Harvesters <b>2016</b> , 279-320		
53	Discrete-time modelling and experimental validation of an All-Digital PLL for clock-generating networks <b>2016</b> ,		1
52	Real-time characterization of dielectric charging in contactless capacitive MEMS. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2015</b> , 82, 559-569	1.2	9
51	Capacitive Energy Conversion With Circuits Implementing a Rectangular Charge-Voltage Cycle Part 2: Electromechanical and Nonlinear Analysis. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2015</b> , 62, 2664-2673	3.9	12
50	Capacitive Energy Conversion With Circuits Implementing a Rectangular Charge-Voltage Cycle-Part 1: Analysis of the Electrical Domain. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2015</b> , 62, 2652-2663	3.9	21
49	Control of limit cycle oscillations in a multiple-sampled digitally controlled buck converter. <i>International Journal of Circuit Theory and Applications</i> , <b>2015</b> , 43, 691-708	2	7
48	Understanding complexity in multiphysics systems-on-a-chip: Modern approaches for design <b>2015</b> ,		1
47	Design-Oriented Analysis of Quantization-Induced Limit Cycles in a Multiple-Sampled Digitally Controlled Buck Converter. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2014</b> , 61, 1192-1205	3.9	15
46	Delta-Sigma Control of Dielectric Charge for Contactless Capacitive MEMS. <i>Journal of Microelectromechanical Systems</i> , <b>2014</b> , 23, 829-841	2.5	19
45	Sliding in a piecewise-smooth dynamical system with a hold-on effect. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2014</b> , 378, 3085-3092	2.3	1
44	Electrostatic Vibration Energy Harvesters with Linear and Nonlinear Resonators. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2014</b> , 24, 1430030	2	7
43	Design and test of resonators using PiezoMUMPS technology <b>2014</b> ,		3
42	Sigma - Delta inspired control technique for the improvement of MEMS reliability <b>2014</b> ,		1
41	Modelling and analysis of vibration energy harvesters with charge pump conditioning circuits <b>2014</b> ,		2
40	A wideband 2-DOF resonator for electromagnetic energy harvesting systems <b>2014</b> ,		3

39	Period Doubling Bifurcations in a Multiple-Sampled Digitally Controlled Buck Converter. <i>IEICE Proceeding Series</i> , <b>2014</b> , 1, 703-706		
38	Dynamics of charge-pump phase-locked loops. <i>International Journal of Circuit Theory and Applications</i> , <b>2013</b> , 41, 1109-1135	2	9
37	Combined mechanical and circuit nonlinearities in electrostatic vibration energy harvesters <b>2013</b> ,		3
36	Modelling of a charge control method for capacitive MEMS <b>2013</b> ,		3
35	Memristor circuit investigation through a new tutorial toolbox <b>2013</b> ,		2
34	Steady-State Oscillations in Resonant Electrostatic Vibration Energy Harvesters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2013</b> , 60, 875-884	3.9	24
33	CHUA'S LAGRANGIAN CIRCUIT ELEMENTS <b>2013</b> , 36-40		
32	Tools for Analytical and Numerical Analysis of Electrostatic Vibration Energy Harvesters: Application to a Continuous Mode Conditioning Circuit. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 476, 012076	0.3	4
31	Dielectric Charge Control in Electrostatic MEMS Positioners/Varactors. <i>Journal of Microelectromechanical Systems</i> , <b>2012</b> , 21, 559-573	2.5	17
30	Pulsed Digital Oscillators for Electrostatic MEMS. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2012</b> , 59, 2835-2845	3.9	8
29	Bifurcations and chaos in electrostatic vibration energy harvesters <b>2012</b> ,		4
28	Analysis of limit cycles in a PI digitally controlled buck converter <b>2012</b> ,		4
27	. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2011</b> , 58, 331-335	3.5	5
26	Limit cycle behavior in a class-AB second-order square root domain filter. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2011</b> , 68, 175-181	1.2	2
25	<b>2011</b> ,		4
24	Discontinuous piecewise-linear discrete-time dynamics maps with gaps in electronic systems. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2011</b> , 30, 1296-1306	0.7	3
23	Control of MEMS Vibration Modes With Pulsed Digital Oscillators: Part I theory. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2010</b> , 57, 1865-1878	3.9	14
22	Control of MEMS Vibration Modes With Pulsed Digital Oscillators Part II: Simulation and Experimental Results. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2010</b> , 57, 1879-1890	3.9	8

21	. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2010</b> , 57, 941-945	3.5	13
20	Statistical Analysis of First-Order Bang-Bang Phase-Locked Loops Using Sign-Dependent Random-Walk Theory. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2010</b> , 57, 2367-2380	3.9	17
19	Dynamics of the MEMS pulsed digital oscillator with multiple delays in the feedback loop <b>2009</b> ,		3
18	A KICKED OSCILLATOR AS A MODEL OF A PULSED MEMS SYSTEM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2009</b> , 19, 187-202	2	6
17	Combined effect of loop delay and reference clock jitter in first-order digital bang-bang phase-locked loops <b>2009</b> ,		4
16	Investigation of First-Order Digital Bang-Bang Phase-Locked Loops with Reference Clock Jitter <b>2008</b> ,		6
15	Limit cycle behavior in a class-AB second-order square root domain filter <b>2008</b> ,		4
14	Limit Cycles in a MEMS Oscillator. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2008</b> , 55, 882-886	3.5	21
13	Modelling the dynamics of log-domain circuits. <i>International Journal of Circuit Theory and Applications</i> , <b>2007</b> , 35, 33-70	2	13
12	Nonlinear dynamics of discrete-time circuits: A survey. <i>International Journal of Circuit Theory and Applications</i> , <b>2007</b> , 35, 515-531	2	17
11	Limit cycles in Digital Bang-Bang PLLs <b>2007</b> ,		4
10	On the Chaotic Behavior of a Third-Order Log-Domain Filter. <i>Nonlinear Dynamics</i> , <b>2006</b> , 44, 45-54	5	0
9	MODE-LOCKING IN QUASIPERIODICALLY FORCED SYSTEMS WITH VERY SMALL DRIVING FREQUENCY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2004</b> , 14, 1643-1654	2	
8	DYNAMICS OF PHASE-LOCKED LOOP WITH FM INPUT AND LOW MODULATING FREQUENCY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2002</b> , 12, 1633-1642	2	4
7	Lowpass sigma-delta modulation: an analysis by means of the critical lines tool. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2001</b> , 47, 5343-5355	1.3	8
6	NONLINEAR DYNAMICS OF BANDPASS SIGMA-DELTA MODULATION [AN INVESTIGATION BY MEANS OF THE CRITICAL LINES TOOL. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2000</b> , 10, 307-323	2	10
5	A BIBO stability theorem for a two-dimensional feedback discrete system with discontinuities. <i>Journal of the Franklin Institute</i> , <b>1998</b> , 335, 533-537	4	2
4	A tutorial introduction to non-linear dynamics and chaos and their application to sigma-delta modulators. <i>International Journal of Circuit Theory and Applications</i> , <b>1997</b> , 25, 347-367	2	33

3	Nonlinear dynamics and chaos in Sigma-Delta modulation. <i>Journal of the Franklin Institute</i> , <b>1994</b> , 331, 903-936	4	2
2	Multilevel and non-ideal quantization in $\Sigma\Delta$ modulation. <i>International Journal of Circuit Theory and Applications</i> , <b>1993</b> , 21, 61-83	2	5
1	NONLINEAR DYNAMICS OF A CLASS OF ANALOG-TO-DIGITAL CONVERTERS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>1992</b> , 02, 325-340	2	39