Costas Psychalinos

List of Publications by Citations

246 papers	2,541 citations	26 h-index	36 g-index
282 ext. papers	3,073 ext. citations	1.9 avg, IF	6 L-index

#	Paper	IF	Citations
246	New analog implementation technique for fractional-order controller: A DC motor control. *AEU - International Journal of Electronics and Communications*, **2017**, 78, 192-200	2.8	84
245	Emulation of a constant phase element using operational transconductance amplifiers. *Analog Integrated Circuits and Signal Processing*, **2015**, 85, 413-423	1.2	60
244	Electronically Tunable Fully Integrated Fractional-Order Resonator. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2018**, 65, 166-170	3.5	59
243	A low frequency oscillator using a super-capacitor. *AEU - International Journal of Electronics and Communications*, **2016**, 70, 970-973	2.8	56
242	Fractional-order filters based on low-voltage DDCCs. *Microelectronics Journal*, **2016**, 50, 50-59	1.8	55
241	Experimental verification of on-chip CMOS fractional-order capacitor emulators. *Electronics Letters*, **2016**, 52, 1298-1300	1.1	49
240	Fractional-order electronically controlled generalized filters. *International Journal of Circuit Theory and Applications*, **2017**, 45, 595-612	2	49
239	0.5-V fractional-order companding filters. *International Journal of Circuit Theory and Applications*, **2015**, 43, 1105-1126	2	49
238	0.5 V bulk-driven analog building blocks. *AEU - International Journal of Electronics and Communications*, **2012**, 66, 920-927	2.8	48
237	A survey of single and multi-component Fractional-Order Elements (FOEs) and their applications. *Microelectronics Journal*, **2019**, 84, 9-25	1.8	48
236	Electronically controlled multiphase sinusoidal oscillators using current amplifiers. *International Journal of Circuit Theory and Applications*, **2009**, 37, 43-52	2	47
235	Ultra-low voltage fractional-order circuits using current mirrors. *International Journal of Circuit Theory and Applications*, **2016**, 44, 109-126	2	44
234	Approximation of the Fractional-Order Laplacian s^alpha As a Weighted Sum of First-Order High-Pass Filters. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2018**, 65, 1114-1118	3.5	43
233	Ultra-low voltage fractional-order differentiator and integrator topologies: an application for handling noisy ECGs. *Analog Integrated Circuits and Signal Processing*, **2014**, 81, 393-405	1.2	43
232	Comparative Study of Discrete Component Realizations of Fractional-Order Capacitor and Inductor Active Emulators. *Journal of Circuits, Systems and Computers*, **2018**, 27, 1850170	0.9	42
231	Design of CMOS Analog Integrated Fractional-Order Circuits. *Springer Briefs in Electrical and Computer Engineering*, **2017**,	0.4	38
230	Emulation of an electrical-analogue of a fractional-order human respiratory mechanical impedance model using OTA topologies. *AEU - International Journal of Electronics and Communications*, **2017**, 78, 201-208	2.8	35

229	Switched-Capacitor Fractional-Step Butterworth Filter Design. *Circuits, Systems, and Signal Processing*, **2016**, 35, 1377-1393	2.2	33
228	Current amplifier based grounded and floating inductance simulators. *AEU - International Journal of Electronics and Communications*, **2006**, 60, 168-171	2.8	32
227	Partial fraction expansion-based realizations of fractional-order differentiators and integrators using active filters. *International Journal of Circuit Theory and Applications*, **2019**, 47, 513-531	2	30
226	Emulation of current excited fractional-order capacitors and inductors using OTA topologies. *Microelectronics Journal*, **2016**, 55, 70-81	1.8	30
225	Practical Design and Evaluation of Fractional-Order Oscillator Using Differential Voltage Current Conveyors. *Circuits, Systems, and Signal Processing*, **2016**, 35, 2003-2016	2.2	27
224	Multiple Input Single Output Universal Biquad Filter with Current Feedback Operational Amplifiers. *Circuits, Systems, and Signal Processing*, **2010**, 29, 1167-1180	2.2	27
223	A floating generalized impedance converter with current feedback operational amplifiers. *AEU - International Journal of Electronics and Communications*, **2008**, 62, 81-85	2.8	27
222	A systematic design procedure for square-root-domain circuits based on the signal flow graph approach. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2002**, 49, 1702-1712		27
221	Differential Difference Current Conveyor Using Bulk-Driven Technique for Ultra-Low-Voltage Applications. *Circuits, Systems, and Signal Processing*, **2014**, 33, 159-176	2.2	26
220	Multiple-input single-output universal biquad filter using single output operational transconductance amplifiers. *AEU - International Journal of Electronics and Communications*, **2018**, 93, 360-367	2.8	26
219	Single active element implementation of fractional-order differentiators and integrators. *AEU - International Journal of Electronics and Communications*, **2018**, 97, 6-15	2.8	24
218	Multiphase sinusoidal oscillators using second generation current conveyors. *AEU - International Journal of Electronics and Communications*, **2010**, 64, 1178-1181	2.8	23
217	Low-Voltage Low-Power Integrable CMOS Circuit Implementation of Integer- and Fractional-Order FitzHugh-Nagumo Neuron Model. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 2108-2122	10.3	23
216	Harmonic oscillators realized using current amplifiers and grounded capacitors. *International Journal of Circuit Theory and Applications*, **2007**, 35, 165-173	2	22
215	Experimental Verification of Fractional-Order Filters Using a Reconfigurable Fractional-Order Impedance Emulator. *Journal of Circuits, Systems and Computers*, **2017**, 26, 1750142	0.9	21
214	Comprehensive comparison based on meta-heuristic algorithms for approximation of the fractional-order Laplacian s□ as a weighted sum of first-order high-pass filters. *Microelectronics Journal*, **2019**, 87, 110-120	1.8	21
213	1.5-V Complex Filters Using Current Mirrors. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2011**, 58, 575-579	3.5	21
212	Low-Voltage Log-Domain Complex Filters. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2008**, 55, 3404-3412	3.9	21

211	Realization of log-domain high-order transfer functions using first-order building blocks and complementary operators. *International Journal of Circuit Theory and Applications*, **2007**, 35, 17-32	2	21
210	Experimental behavior evaluation of series and parallel connected constant phase elements. *AEU - International Journal of Electronics and Communications*, **2017**, 74, 5-12	2.8	20
209	Synthesis and design of constant phase elements based on the multiplication of electronically controllable bilinear immittances in practice. *AEU - International Journal of Electronics and Communications*, **2017**, 78, 98-113	2.8	20
208	Capacitorless digitally programmable fractional-order filters. *AEU - International Journal of Electronics and Communications*, **2017**, 78, 228-237	2.8	19
207	Fractional-order oscillator design using unity-gain voltage buffers and OTAs **2017**,		19
206	0.65 V class-AB current-mode four-quadrant multiplier with reduced power dissipation. *AEU - International Journal of Electronics and Communications*, **2011**, 65, 673-677	2.8	19
205	High-Frequency Capacitorless Fractional-Order CPE and FI Emulator. *Circuits, Systems, and Signal Processing*, **2018**, 37, 2694-2713	2.2	18
204	Design of square-root domain filters by substituting the passive elements of the prototype filter by their equivalents. *International Journal of Circuit Theory and Applications*, **2008**, 36, 185-204	2	18
203	Multiple-Input Bulk-Driven MOS Transistor for Low-Voltage Low-Frequency Applications. *Circuits, Systems, and Signal Processing*, **2019**, 38, 2829-2845	2.2	18
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197	One-terminal electronically controlled fractional-order capacitor and inductor emulator. *AEU - International Journal of Electronics and Communications*, **2019**, 103, 32-45	2.8	16
196	1 V Rectifier Based on Bulk-Driven Quasi-Floating-Gate Differential Difference Amplifiers. *Circuits, Systems, and Signal Processing*, **2015**, 34, 2077-2089	2.2	16
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194	Low-voltage Bluetooth/ZigBee complex filter using current mirrors **2010**,		16

193	Log-domain filtering by simulating the topology of passive prototypes. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2005**, 52, 2043-2054		16
192	Log-domain wave filters. *IEEE Transactions on Circuits and Systems Part 2: Express Briefs*, **2004**, 51, 299-306		16
191	Practical Design of RC Approximants of Constant Phase Elements and Their Implementation in Fractional-Order PID Regulators Using CMOS Voltage Differencing Current Conveyors. *Circuits, Systems, and Signal Processing*, **2019**, 38, 1520-1546	2.2	16
190	Digitally programmed fractional-order Chebyshev filters realizations using current-mirrors **2015**,		15
189	1.2 V BiCMOS Sinh-Domain Filters. *Circuits, Systems, and Signal Processing*, **2012**, 31, 1257-1277	2.2	15
188	Analysis and realization of a switched fractional-order-capacitor integrator. *International Journal of Circuit Theory and Applications*, **2016**, 44, 2035-2040	2	15
187	Digitally programmable low-voltage highly linear transconductor based on promising CMOS structure of differential difference current conveyor. *AEU - International Journal of Electronics and Communications*, **2015**, 69, 1010-1017	2.8	14
186	Ultra-low-Voltage Integrable Electronic Realization of Integer- and Fractional-Order Liao□ Chaotic Delayed Neuron Model. *Circuits, Systems, and Signal Processing*, **2017**, 36, 4844-4868	2.2	14
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170	Employment of the Pad approximation for implementing fractional-order lead/lag compensators. *AEU - International Journal of Electronics and Communications*, **2020**, 120, 153203	2.8	11
169	Electronically tunable fractional-order highpass filter for phantom electroencephalographic system model implementation. *AEU - International Journal of Electronics and Communications*, **2019**, 110, 152850	2.8	11
168	Log-domain SIMO and MISO low-voltage universal biquads. *Analog Integrated Circuits and Signal Processing*, **2011**, 67, 201-211	1.2	11
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165	On the mechanism of creating pinched hysteresis loops using a commercial memristor device. *AEU - International Journal of Electronics and Communications*, **2019**, 111, 152923	2.8	10
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162	Log-domain linear transformation filters revised: improved building blocks and comparison results. *International Journal of Circuit Theory and Applications*, **2008**, 36, 119-133	2	10
161	A log-domain multiphase sinusoidal oscillator. *AEU - International Journal of Electronics and Communications*, **2008**, 62, 622-626	2.8	10
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159	Minimization of Spread of Time-Constants and Scaling Factors in Fractional-Order Differentiator and Integrator Realizations. *Circuits, Systems, and Signal Processing*, **2018**, 37, 5647-5663	2.2	10
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156	Extraction of Cole-Cole model parameters through low-frequency measurements. *AEU - International Journal of Electronics and Communications*, **2018**, 84, 355-359	2.8	9
155	A 0.5 V tunable complex filter for Bluetooth and Zigbee using OTAs. *Analog Integrated Circuits and Signal Processing*, **2014**, 79, 73-81	1.2	8
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150	Realizations of simple fractional-order capacitor emulators with electronically-tunable capacitance. *The Integration VLSI Journal*, **2019**, 69, 225-233	1.4	7
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145	A low-voltage square-root domain n-th order multifunction FLF filter topology. *Analog Integrated Circuits and Signal Processing*, **2009**, 61, 315-322	1.2	6
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142	Designing constant phase elements of complement order. *Analog Integrated Circuits and Signal Processing*, **2018**, 97, 107-114	1.2	6
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140	Low-voltage and low-power fractional-order parallel tunable resonator. *Microelectronics Journal*, **2019**, 88, 108-116	1.8	5

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136	A 50 mHz Sinh-Domain High-pass Filter for Realizing an ECG Signal Acquisition System. *Circuits, Systems, and Signal Processing*, **2014**, 33, 3673-3696	2.2	5
135	Sinh-Domain multiphase sinusoidal oscillator. *Microelectronics Journal*, **2013**, 44, 834-839	1.8	5
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133	Analysis and experimental verification of a fractional-order Hartley oscillator **2017**,		5
132	Companding Realizations of the Nonlinear Energy Operator. *ISRN Biomedical Engineering*, **2013**, 2013, 1-7		5
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130	Current Amplifier-Based Wave Filters. *Circuits, Systems, and Signal Processing*, **2005**, 24, 303-313	2.2	5
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123	CCII Based Realization of Fractional-Order PD Controller for a Position Servo **2019**,		4
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106	Fractional-Order Differentiators and Integrators with Reduced Circuit Complexity **2018**,		3
105	Single- Input Multiple-Output and Multiple-Input Single-Output Fractional-Order Filter Designs **2018**,		3
104	Fractional-Order Model of a Commercial Ear Simulator **2018**,		3

103	Square-Root-Domain Realization of Single-Cell Architecture of Complex TDCNN. *Circuits, Systems, and Signal Processing*, **2013**, 32, 959-978	2.2	3
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77	Sinh-Domain linear transformation filters. *International Journal of Electronics*, **2014**, 101, 241-254	1.2	2
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68	Switched-Current Filters Revisited: Square-Root Domain Sampled-Data Filters. *IEEE Transactions on Circuits and Systems Part 2: Express Briefs*, **2006**, 53, 1373-1377		2

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