

Brent J Maundy

List of Publications by Citations

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122
papers

1,753
citations

22
h-index

37
g-index

131
ext. papers

2,076
ext. citations

2.2
avg, IF

5.38
L-index

#	Paper	IF	Citations
122	Measurement of Supercapacitor Fractional-Order Model Parameters From Voltage-Excited Step Response. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2013 , 3, 367-376	5.2	119
121	Reevaluation of Performance of Electric Double-layer Capacitors from Constant-current Charge/Discharge and Cyclic Voltammetry. <i>Scientific Reports</i> , 2016 , 6, 38568	4.9	108
120	Fractional-order models of supercapacitors, batteries and fuel cells: a survey. <i>Materials for Renewable and Sustainable Energy</i> , 2015 , 4, 1	4.7	107
119	Review of fractional-order electrical characterization of supercapacitors. <i>Journal of Power Sources</i> , 2018 , 400, 457-467	8.9	92
118	Extracting the parameters of the double-dispersion Cole bioimpedance model from magnitude response measurements. <i>Medical and Biological Engineering and Computing</i> , 2014 , 52, 749-58	3.1	60
117	A low frequency oscillator using a super-capacitor. <i>AEU - International Journal of Electronics and Communications</i> , 2016 , 70, 970-973	2.8	56
116	Approximated Fractional-Order Inverse Chebyshev Lowpass Filters. <i>Circuits, Systems, and Signal Processing</i> , 2016 , 35, 1973-1982	2.2	54
115	Approximated Fractional Order Chebyshev Lowpass Filters. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-7	1.1	54
114	On a multivibrator that employs a fractional capacitor. <i>Analog Integrated Circuits and Signal Processing</i> , 2010 , 62, 99-103	1.2	48
113	Approximation of the Fractional-Order Laplacian s^α As a Weighted Sum of First-Order High-Pass Filters. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018 , 65, 1114-1118	3.5	43
112	Cole impedance extractions from the step-response of a current excited fruit sample. <i>Computers and Electronics in Agriculture</i> , 2013 , 98, 100-108	6.5	42
111	Chaotic Flower Pollination and Grey Wolf Algorithms for parameter extraction of bio-impedance models. <i>Applied Soft Computing Journal</i> , 2019 , 75, 750-774	7.5	41
110	Spectral Capacitance of Series and Parallel Combinations of Supercapacitors. <i>ChemElectroChem</i> , 2016 , 3, 1429-1436	4.3	39
109	Fractional-step Tow-Thomas biquad filters. <i>Nonlinear Theory and Its Applications IEICE</i> , 2012 , 3, 357-374	0.6	39
108	A New Second-Order All-Pass Filter in 130-nm CMOS. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2016 , 63, 249-253	3.5	36
107	Fractional Resonance-Based RLC Filters. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-10	1.1	36
106	Versatile Precision Full-Wave Rectifiers for Instrumentation and Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2007 , 56, 1703-1710	5.2	36

105	Extracting single dispersion Cole-Cole impedance model parameters using an integrator setup. <i>Analog Integrated Circuits and Signal Processing</i> , 2012 , 71, 107-110	1.2	34
104	Extracting the parameters of the single-dispersion Cole bioimpedance model using a magnitude-only method. <i>Computers and Electronics in Agriculture</i> , 2015 , 119, 153-157	6.5	31
103	On the Realization of Multiphase Oscillators Using Fractional-Order Allpass Filters. <i>Circuits, Systems, and Signal Processing</i> , 2012 , 31, 3-17	2.2	31
102	Partial fraction expansion based realizations of fractional-order differentiators and integrators using active filters. <i>International Journal of Circuit Theory and Applications</i> , 2019 , 47, 513-531	2	30
101	Parameter identification of fractional-order chaotic systems using different Meta-heuristic Optimization Algorithms. <i>Nonlinear Dynamics</i> , 2019 , 95, 2491-2542	5	30
100	High-performance current-mode instrumentation amplifier circuit. <i>International Journal of Electronics</i> , 2007 , 94, 1015-1024	1.2	21
99	2010 ,		19
98	A novel CMOS first-order all-pass filter. <i>International Journal of Electronics</i> , 2002 , 89, 739-743	1.2	19
97	Extraction of Phase Information from Magnitude-Only Bio-impedance Measurements Using a Modified Kramers-Kronig Transform. <i>Circuits, Systems, and Signal Processing</i> , 2018 , 37, 3635-3650	2.2	19
96	Design of a Portable Low-Cost Impedance Analyzer 2017 ,		17
95	Compact Wide Frequency Range Fractional-Order Models of Human Body Impedance against Contact Currents. <i>Mathematical Problems in Engineering</i> , 2016 , 2016, 1-10	1.1	16
94	Low-voltage commercial super-capacitor response to periodic linear-with-time current excitation: a case study. <i>IET Circuits, Devices and Systems</i> , 2017 , 11, 189-195	1.1	15
93	Single Transistor Active Filters: What is Possible and What is Not. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2014 , 61, 2517-2524	3.9	15
92	Numerical extraction of Cole-Cole impedance parameters from step response. <i>Nonlinear Theory and Its Applications IEICE</i> , 2011 , 2, 548-561	0.6	15
91	Alternative Realizations of CMOS Current Feedback Amplifiers for Low Voltage Applications. <i>Analog Integrated Circuits and Signal Processing</i> , 2002 , 32, 157-168	1.2	15
90	Analysis and realization of a switched fractional-order-capacitor integrator. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 2035-2040	2	15
89	Variability of Cole-model bioimpedance parameters using magnitude-only measurements of apples from a two-electrode configuration. <i>International Journal of Food Properties</i> , 2017 , 20, S507-S519	3	14
88	Current-mode capacitorless integrators and differentiators for implementing emulators of fractional-order elements. <i>AEU - International Journal of Electronics and Communications</i> , 2017 , 80, 94-103 ^{2,8}		14

87	Strain Gauge Amplifier Circuits. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013 , 62, 693-709.2		13
86	Fractional-Order Two-Port Networks. <i>Mathematical Problems in Engineering</i> , 2016 , 2016, 1-5	1.1	13
85	. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2013 , 3, 297-300	5.2	11
84	A novel circuit element and its application in signal amplification. <i>International Journal of Circuit Theory and Applications</i> , 2008 , 36, 219-231	2	11
83	A Wideband Delay-Tunable Fully Differential Allpass Filter in 65-nm CMOS Technology 2019 ,		10
82	On the mechanism of creating pinched hysteresis loops using a commercial memristor device. <i>AEU - International Journal of Electronics and Communications</i> , 2019 , 111, 152923	2.8	10
81	Simple MOS-based circuit designed to show pinched hysteresis behavior. <i>International Journal of Circuit Theory and Applications</i> , 2018 , 46, 1123-1128	2	9
80	Minimal two-transistor multifunction filter design. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 1449-1466	2	8
79	Design and Implementation of Portable Impedance Analyzers 2019 ,		8
78	A four-quadrant current multiplier/divider cell with four transistors. <i>Analog Integrated Circuits and Signal Processing</i> , 2018 , 95, 173-179	1.2	8
77	2013 ,		8
76	Active grounded inductor circuit. <i>International Journal of Electronics</i> , 2011 , 98, 555-567	1.2	8
75	A new time-based architecture for serial communication links 2009 ,		8
74	Constant bandwidth current feedback amplifier from two operational amplifiers. <i>International Journal of Electronics</i> , 2007 , 94, 605-615	1.2	8
73	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 2606-2614	3.9	7
72	On a class of cross coupled fully differential filters. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 1425-1436	2	7
71	2010 ,		7
70	Single transistor RC-only second-order allpass filters. <i>International Journal of Circuit Theory and Applications</i> , 2020 , 48, 162-169	2	7

69	Automatic Generation of Differential-Input Differential-Output Second-Order Filters Based on a Differential Pair. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2020 , 39, 1258-1271	2.5	7
68	Versatile composite amplifier configuration. <i>International Journal of Electronics</i> , 2015 , 102, 993-1006	1.2	6
67	Wideband third-order single-transistor all-pass filter. <i>International Journal of Circuit Theory and Applications</i> , 2020 , 48, 1201-1208	2	6
66	Single-Transistor Second-Order Allpass Filters 2019 ,		6
65	Differential Time Signaling Data-Link Architecture. <i>Journal of Signal Processing Systems</i> , 2013 , 70, 21-37	1.4	6
64	Improved Cole-Cole parameter extraction from frequency response using least squares fitting 2012 ,		6
63	Accurate time domain extraction of supercapacitor fractional-order model parameters 2013 ,		6
62	A low power and high speed PPM design for ultra wideband communications. <i>Canadian Conference on Electrical and Computer Engineering</i> , 2008 ,		6
61	A Novel Hybrid Active Inductor. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2007 , 54, 663-667		6
60	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 4348-4360	4.1	6
59	2016 ,		6
58	Simple Multi-Function Fractional-Order Filter Designs 2019 ,		5
57	Fractional-Order Multiphase Sinusoidal Oscillator Design Using Current-Mirrors 2018 ,		5
56	Analysis and experimental verification of a fractional-order Hartley oscillator 2017 ,		5
55	Data link design using a time-based approach 2010 ,		5
54	An improved pseudo-exponential, pseudo-logarithmic circuit. <i>Canadian Journal of Electrical and Computer Engineering</i> , 2007 , 32, 145-150	1.4	5
53	Extraction of bioimpedance phase information from its magnitude using a non-uniform Kramers-Kronig transform. <i>European Biophysics Journal</i> , 2020 , 49, 207-213	1.9	4
52	Indirect Realization of the Imaginary Resistor jR . <i>Circuits, Systems, and Signal Processing</i> , 2016 , 35, 2610-2615		4

51	All-Pass Filter Based Synthesis of Multifunctional Microwave Active Circuits 2017 ,		4
50	84-dB Range Logarithmic Digital-to-Analog Converter in CMOS 0.18- μm Technology. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2011 , 58, 279-283	3.5	4
49	Improved dynamic range, digitally-controlled linear-in-dB CMOS variable gain amplifier 2011 ,		4
48	Band-pass filters with high quality factors and asymmetric-slope characteristics 2011 ,		4
47	Ultra Low Power Transceiver for Wireless Patient Vital Sign Monitoring 2007 ,		4
46	Realization of a GIC using hybrid current conveyor/operational amplifier circuits. <i>Midwest Symposium on Circuits and Systems</i> , 2007 ,	1	4
45	8-GHz Low-Power Voltage-Mode Second-Order Allpass Filter in 65-nm CMOS 2019 ,		4
44	An Ultra-Low Power Wide-Band Single-Transistor Second-Order Allpass Filter in 65nm CMOS 2019 ,		4
43	The common-base differential amplifier and applications revisited. <i>Microelectronics Journal</i> , 2017 , 63, 8-19	1.8	3
42	Second order bandstop and bandpass filters using transformers. <i>Microelectronics Journal</i> , 2015 , 46, 690-697	1.8	3
41	Calculating output impedance in linear networks without source nulling or load disconnect: the instantaneous output impedance. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 98-108	2	3
40	Oscillator with tunable phase capability. <i>Electronics Letters</i> , 2017 , 53, 1516-1518	1.1	3
39	CMOS Realization of All-Positive Pinched Hysteresis Loops. <i>Complexity</i> , 2017 , 2017, 1-15	1.6	3
38	4-Bit Parallel-Input Exponential Digital-to-Analog Converter in CMOS 0.18 μm Technology. <i>Circuits, Systems, and Signal Processing</i> , 2012 , 31, 413-433	2.2	3
37	Fractional Step Analog Filter Design. <i>Lecture Notes in Electrical Engineering</i> , 2013 , 243-267	0.2	3
36	Incorporating FPAs into Laboratory Exercises for Analogue Filter Design. <i>International Journal of Electrical Engineering and Education</i> , 2013 , 50, 188-200	0.6	3
35	A practical near constant bandwidth amplifier. <i>International Journal of Circuit Theory and Applications</i> , 2009 , 38, n/a-n/a	2	3
34	A useful pseudo-logarithmic circuit. <i>Microelectronics International</i> , 2007 , 24, 35-45	0.8	3

33	High-performance active bandpass filter using current-feedback amplifiers. <i>International Journal of Electronics</i> , 2004 , 91, 563-570	1.2	3
32	Extending the double-dispersion Cole-Cole, Cole-Davidson and Havriliak-Negami electrochemical impedance spectroscopy models. <i>European Biophysics Journal</i> , 2021 , 50, 915-926	1.9	3
31	Factors impacting accurate Cole-impedance extractions from magnitude-only measurements 2016 ,		3
30	Enhancing the improved Howland circuit. <i>International Journal of Circuit Theory and Applications</i> , 2019 , 47, 532-541	2	3
29	A 28 GHz Q-Tunable Fully Differential Bandpass Filter in 65-nm CMOS Technology 2018 ,		3
28	An improved multiphase sinusoidal oscillator using current feedback amplifiers. <i>International Journal of Electronics Letters</i> , 2016 , 4, 177-187	0.6	2
27	A generic impedance modeling technique. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 123, 153301	2.8	2
26	Multiple-Valued Time-Based Architecture for Serial Communication Links 2012 ,		2
25	On a class of pseudo-logarithmic amplifiers suitable for use with digitally switched resistors. <i>International Journal of Circuit Theory and Applications</i> , 2008 , 36, 81-108	2	2
24	A novel Q -tuning scheme for continuous time filters. <i>International Journal of Electronics</i> , 2002 , 89, 477-491	2.1	2
23	On chip 0.5V 2GHz four-output quadrature-phase oscillator. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 126, 153393	2.8	2
22	Low-Power Single-Transistor Voltage-Mode Third-Order All-pass Filter in 65-nm CMOS 2020 ,		2
21	Improved method to determine supercapacitor metrics from highpass filter response 2016 ,		2
20	Determination of supercapacitor metrics using a magnitude-only method 2016 ,		2
19	Minimum MOS Transistor Count Fractional-Order Voltage-Mode and Current-Mode Filters. <i>Technologies</i> , 2019 , 7, 85	2.4	2
18	Design and Implementation of a Bio-Impedance Analyzer Based on the Kramers-Kronig Transform 2018 ,		1
17	A new 90NM CMOS current feedback operational amplifier 2009 ,		1
16	A power-efficient, high data rate chaos-based Transceiver design 2009 ,		1

15	New topology for implementing bandpass, bandstop and allpass filters with CFAs. <i>International Journal of Electronics</i> , 2007 , 94, 1025-1035	1.2	1
14	Ultra-low-power compact single-transistor all-pass filter with tunable delay capability. <i>AEU - International Journal of Electronics and Communications</i> , 2021 , 132, 153645	2.8	1
13	Third-order tunable-phase asymmetric cross-coupled oscillator. <i>IET Circuits, Devices and Systems</i> , 2019 , 13, 929-933	1.1	1
12	A voltage tunable CMOS differential active resistor and its application. <i>International Journal of Circuit Theory and Applications</i> , 2019 , 47, 175-185	2	1
11	On a Class of Quadrature Phase Oscillators using Differential pairs 2018 ,		1
10	Synthesis of a Family of Differential Cross-coupled Oscillators and Design Application 2018 ,		1
9	Delay-Tunable Compact RC-Only All-Pass Filter. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 31, 461-464	2.6	0
8	In-Direct Impedance Measurement: Phase Extraction Algorithm 2019 , 33-49		
7	In-Direct Impedance Measurement: Design and Implementation 2019 , 51-80		
6	A D/A converter based on a pseudo-exponential function. <i>International Journal of Electronics Letters</i> , 2015 , 3, 187-200	0.6	
5	Wide-range grounded non-linear transconductor and its application as a frequency doubler. <i>International Journal of Electronics Letters</i> , 2018 , 6, 214-219	0.6	
4	Complete automatic Q tuning system on a chip. <i>The Integration VLSI Journal</i> , 2005 , 38, 399-415	1.4	
3	Designing with programmable logic arrays. <i>Microprocessors and Microsystems</i> , 1987 , 11, 475-486	2.4	
2	Second-order cascode-based filters. <i>The Integration VLSI Journal</i> , 2022 , 84, 111-121	1.4	
1	Analog Circuit Design Using Symbolic Math Toolboxes: Demonstrative Examples. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2021 , 1-11	2.6	