

Ahmed M Soliman

List of Publications by Citations

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131
papers

2,022
citations

24
h-index

40
g-index

142
ext. papers

2,353
ext. citations

1.6
avg, IF

5.47
L-index

#	Paper	IF	Citations
131	Inverting second generation current conveyors: the missing building blocks, CMOS realizations and applications. <i>International Journal of Electronics</i> , 1999 , 86, 413-432	1.2	168
130	Fractional Order Butterworth Filter: Active and Passive Realizations. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2013 , 3, 346-354	5.2	138
129	Applications of the current feedback operational amplifiers. <i>Analog Integrated Circuits and Signal Processing</i> , 1996 , 11, 265	1.2	113
128	On The Optimization of Fractional Order Low-Pass Filters. <i>Circuits, Systems, and Signal Processing</i> , 2016 , 35, 2017-2039	2.2	73
127	Fractional Order Sallen-Key and KHN Filters: Stability and Poles Allocation. <i>Circuits, Systems, and Signal Processing</i> , 2015 , 34, 1461-1480	2.2	72
126	Use of Mirror Elements in the Active Device Synthesis by Admittance Matrix Expansion. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008 , 55, 2726-2735	3.9	66
125	CCII based fractional filters of different orders. <i>Journal of Advanced Research</i> , 2014 , 5, 157-64	13	54
124	Three Fractional-Order-Capacitors-Based Oscillators with Controllable Phase and Frequency. <i>Journal of Circuits, Systems and Computers</i> , 2017 , 26, 1750160	0.9	52
123	Current Feedback Operational Amplifier Based Oscillators. <i>Analog Integrated Circuits and Signal Processing</i> , 2000 , 23, 45-55	1.2	52
122	Generation, modeling, and analysis of CCII-based gyrators using the generalized symbolic framework for linear active circuits. <i>International Journal of Circuit Theory and Applications</i> , 2008 , 36, 289-309	2	49
121	On the systematic synthesis of CCII-based floating simulators. <i>International Journal of Circuit Theory and Applications</i> , 2010 , 38, 935-967	2	47
120	Fractional-order mutual inductance: analysis and design. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 85-97	2	42
119	Analytical Synthesis of Low-Sensitivity High-Order Voltage-Mode DDCC and FDCCII-Grounded R and C All-Pass Filter Structures. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2007 , 54, 1430-1443		40
118	Fractional Order Oscillator Design Based on Two-Port Network. <i>Circuits, Systems, and Signal Processing</i> , 2016 , 35, 3086-3112	2.2	38
117	Voltage mode and current mode Tow Thomas bi-quadratic filters using inverting CCII. <i>International Journal of Circuit Theory and Applications</i> , 2007 , 35, 463-467	2	37
116	Current mode CCII oscillators using grounded capacitors and resistors. <i>International Journal of Circuit Theory and Applications</i> , 1998 , 26, 431-438	2	35
115	Generation of current conveyor based oscillators using nodal admittance matrix expansion. <i>Analog Integrated Circuits and Signal Processing</i> , 2010 , 65, 43-59	1.2	32

114	New 1.5-V CMOS second generation current conveyor based on wide range transconductor. <i>Analog Integrated Circuits and Signal Processing</i> , 2006 , 49, 267-279	1.2	32
113	CMOS differential current conveyors and applications for analog VLSI. <i>Analog Integrated Circuits and Signal Processing</i> , 1996 , 11, 35	1.2	28
112	Simple sinusoidal active RC oscillators. <i>International Journal of Electronics</i> , 1975 , 39, 455-458	1.2	28
111	Fractional-order multi-phase oscillators design and analysis suitable for higher-order PSK applications. <i>Analog Integrated Circuits and Signal Processing</i> , 2016 , 87, 301-312	1.2	27
110	Transformation of oscillators using Op Amps, unity gain cells and CFOA. <i>Analog Integrated Circuits and Signal Processing</i> , 2010 , 65, 105-114	1.2	26
109	Current mode filters using two output inverting CCII. <i>International Journal of Circuit Theory and Applications</i> , 2008 , 36, 875-881	2	25
108	Generation of CCII and CFOA filters from passive RLC filters. <i>International Journal of Electronics</i> , 1998 , 85, 293-312	1.2	24
107	Two integrator loop quadrature oscillators: A review. <i>Journal of Advanced Research</i> , 2013 , 4, 1-11	13	23
106	Low Voltage Rail to Rail CMOS Current Feedback Operational Amplifier and its Applications for Analog VLSI. <i>Analog Integrated Circuits and Signal Processing</i> , 2000 , 25, 47-57	1.2	23
105	ADJOINT NETWORK THEOREM AND FLOATING ELEMENTS IN THE NAM. <i>Journal of Circuits, Systems and Computers</i> , 2009 , 18, 597-616	0.9	22
104	New Four-Quadrant CMOS Current-Mode and Voltage-Mode Multipliers. <i>Analog Integrated Circuits and Signal Processing</i> , 2005 , 45, 295-307	1.2	19
103	GENERATION OF THIRD-ORDER QUADRATURE OSCILLATOR CIRCUITS USING NAM EXPANSION. <i>Journal of Circuits, Systems and Computers</i> , 2013 , 22, 1350060	0.9	18
102	Current-Mode Universal Filters Using Current Conveyors: Classification and Review. <i>Circuits, Systems, and Signal Processing</i> , 2008 , 27, 405-427	2.2	18
101	HISTORY AND PROGRESS OF THE TOWTHOMAS BI-QUADRATIC FILTER PART I: GENERATION AND OP AMP REALIZATIONS. <i>Journal of Circuits, Systems and Computers</i> , 2008 , 17, 33-54	0.9	17
100	Realizations of ideal FDNC and FDNR elements using new types of mutators. <i>International Journal of Electronics</i> , 1978 , 44, 317-323	1.2	17
99	Novel CMOS realizations of the inverting second-generation current conveyor and applications. <i>Analog Integrated Circuits and Signal Processing</i> , 2007 , 52, 57-64	1.2	16
98	Theorem relating a class of op.-amp. and current conveyor circuits. <i>International Journal of Electronics</i> , 1995 , 79, 53-61	1.2	16
97	Generation of Kerwin-Huelsman-Newcomb biquad filter circuits using nodal admittance matrix expansion. <i>International Journal of Circuit Theory and Applications</i> , 2011 , 39, 697-717	2	14

96	New Wide Band Low Power CMOS Current Conveyors. <i>Analog Integrated Circuits and Signal Processing</i> , 2004 , 40, 91-97	1.2	14
95	A Novel CMOS Realization of the Differential Input Balanced Output Current Operational Amplifier and its Applications. <i>Analog Integrated Circuits and Signal Processing</i> , 2005 , 44, 37-53	1.2	14
94	Two novel active RC canonic bandpass networks using the current conveyor. <i>International Journal of Electronics</i> , 1977 , 42, 49-54	1.2	14
93	Biomedical image encryption based on double-humped and fractional logistic maps 2017 ,		13
92	Analytical synthesis of voltage-mode even/odd-nth-order differential difference current conveyor and fully differential current conveyor II-grounded resistor and capacitor universal filter structures. <i>International Journal of Circuit Theory and Applications</i> , 2015 , 43, 1263-1310	2	13
91	Generation of Generalized Impedance Converter Circuits Using NAM Expansion. <i>Circuits, Systems, and Signal Processing</i> , 2011 , 30, 1091-1114	2.2	13
90	New CCII and ICCII Based Realizations of L-C and L-R Mutators. <i>Circuits, Systems, and Signal Processing</i> , 2010 , 29, 1181-1191	2.2	13
89	HISTORY AND PROGRESS OF THE TOWTHOMAS BIQUADRATIC FILTER PART II: OTRA, CCII, AND DVCC REALIZATIONS. <i>Journal of Circuits, Systems and Computers</i> , 2008 , 17, 797-826	0.9	13
88	Two New Families of Floating FDNR Circuits. <i>Journal of Electrical and Computer Engineering</i> , 2010 , 2010, 1-7	1.9	12
87	CLASSIFICATION AND PATHOLOGICAL REALIZATIONS OF TRANSCONDUCTANCE AMPLIFIERS. <i>Journal of Circuits, Systems and Computers</i> , 2012 , 21, 1250010	0.9	12
86	The CCII+ and the ICCII as basic building blocks in low-pass filter realizations. <i>International Journal of Circuit Theory and Applications</i> , 2008 , 36, 493-509	2	12
85	A new approach for using the pathological mirror elements in the ideal representation of active devices. <i>International Journal of Circuit Theory and Applications</i> , 2008 , 38, n/a-n/a	2	12
84	Generalized family of fractional-order oscillators based on single CFOA and RC network 2017 ,		11
83	ON THE DVCC AND THE BOCCII AS ADJOINT ELEMENTS. <i>Journal of Circuits, Systems and Computers</i> , 2009 , 18, 1017-1032	0.9	11
82	A New CMOS Programmable Balanced Output Transconductor and Application to a Mixed Mode Universal Filter Suitable for VLSI. <i>Analog Integrated Circuits and Signal Processing</i> , 1999 , 19, 241-254	1.2	11
81	Generalized immittance inverters and their realizations. <i>International Journal of Electronics</i> , 1976 , 41, 59-64	1.2	11
80	Fractional-order inverting and non-inverting filters based on CFOA 2016 ,		11
79	Generalized fractional logistic map suitable for data encryption 2015 ,		10

78	Two Integrator Loop Filters: Generation Using NAM Expansion and Review. <i>Journal of Electrical and Computer Engineering</i> , 2010 , 2010, 1-8	1.9	10
77	GENERATION OF OSCILLATORS BASED ON GROUNDED CAPACITOR CURRENT CONVEYORS WITH MINIMUM PASSIVE COMPONENTS. <i>Journal of Circuits, Systems and Computers</i> , 2009 , 18, 857-873	0.9	10
76	The voltage mirror-current mirror pair as a universal element. <i>International Journal of Circuit Theory and Applications</i> , 2009 , 38, n/a-n/a	2	10
75	Parasitic-capacitance-insensitive voltage-mode mosfet-C filters using differential current voltage conveyor. <i>Circuits, Systems, and Signal Processing</i> , 2001 , 20, 11-26	2.2	10
74	Transformation of a floating capacitor oscillator to a family of grounded capacitor oscillators. <i>International Journal of Electronics</i> , 2011 , 98, 289-300	1.2	9
73	Fractional order oscillator with independent control of phase and frequency 2014 ,		8
72	HISTORY AND PROGRESS OF THE TOW THOMAS BI-QUADRATIC FILTER PART III: GENERATION USING NAM EXPANSION. <i>Journal of Circuits, Systems and Computers</i> , 2010 , 19, 529-548	0.9	8
71	ON THE INTRODUCTION OF NEW FLOATING CURRENT CONVEYORS. <i>Journal of Circuits, Systems and Computers</i> , 2009 , 18, 1005-1016	0.9	8
70	Low voltage CMOS fully differential current feedback amplifier with controllable 3-dB bandwidth. <i>Analog Integrated Circuits and Signal Processing</i> , 2007 , 52, 139-146	1.2	8
69	New Square-Root Domain Oscillators. <i>Analog Integrated Circuits and Signal Processing</i> , 2006 , 47, 165-168	1.2	8
68	NOVEL CMOS REALIZATIONS OF THE OPERATIONAL FLOATING CONVEYOR AND APPLICATIONS. <i>Journal of Circuits, Systems and Computers</i> , 2005 , 14, 1113-1143	0.9	8
67	Fractional-order oscillator based on single CCII 2016 ,		8
66	Stability analysis of fractional-order Colpitts oscillators. <i>Analog Integrated Circuits and Signal Processing</i> , 2019 , 101, 267-279	1.2	7
65	Novel CMOS Realization of Balanced-Output Third Generation Inverting Current Conveyor with Applications. <i>Circuits, Systems, and Signal Processing</i> , 2009 , 28, 1037-1051	2.2	7
64	HISTORY AND PROGRESS OF THE KERWIN-UELSMAN-NEWCOMB FILTER GENERATION AND OP AMP REALIZATIONS. <i>Journal of Circuits, Systems and Computers</i> , 2008 , 17, 637-658	0.9	7
63	A Transformation Method from Voltage-Mode OP-Amp-RC Circuits to Current-Mode Gm-C Circuits. <i>Circuits, Systems, and Signal Processing</i> , 2006 , 25, 609-626	2.2	7
62	A universal active R biquad. <i>International Journal of Circuit Theory and Applications</i> , 1978 , 6, 153-157	2	7
61	Generation of second generation current conveyor (CCII) family from inverting second generation current conveyor (ICCI) family. <i>International Journal of Electronics</i> , 2010 , 97, 405-414	1.2	6

60	A Tunable Square Root Domain Oscillator. <i>Analog Integrated Circuits and Signal Processing</i> , 2005 , 43, 91-95	6
59	Current Operational Amplifier (COA): CMOS Realization and Active Compensation. <i>Analog Integrated Circuits and Signal Processing</i> , 2000 , 24, 141-152	1.2 6
58	NEW GROUNDED-CAPACITOR CURRENT-MODE OSCILLATORS USING SINGLE-OUTPUT CCIIS. <i>Journal of Circuits, Systems and Computers</i> , 1998 , 08, 363-378	0.9 6
57	Analytical synthesis of elliptic voltage-mode even/odd-nth-order filter structures using DDCCs, FDCCIs, and grounded capacitors and resistors. <i>IET Circuits, Devices and Systems</i> , 2019 , 13, 279-291	1.1 6
56	High-Order Gm-C Filters with Current Transfer Function Based on Multiple Loop Feedback 2007 ,	5
55	A New CMOS Rail-to-Rail Low Distortion Balanced Output Transconductor. <i>Analog Integrated Circuits and Signal Processing</i> , 2004 , 40, 75-82	1.2 5
54	A new active c differential input integrator using the dvccs/dvcvs. <i>International Journal of Circuit Theory and Applications</i> , 1979 , 7, 272-275	2 5
53	Hardware Speech Encryption Using a Chaotic Generator, Dynamic Shift and Bit Permutation 2018 ,	5
52	Fractional order four-phase oscillator based on double integrator topology 2017 ,	4
51	Fractional order oscillators with single non-zero transmission matrix element 2015 ,	4
50	Multi-phase oscillator for higher-order PSK applications 2014 ,	4
49	A Note on the Generation of Generalized Impedance Converter Circuits Using NAM Expansion. <i>Circuits, Systems, and Signal Processing</i> , 2012 , 31, 1147-1157	2.2 4
48	CCII based KHN fractional order filter 2013 ,	4
47	ACTIVE CIRCULATOR CIRCUITS USING OA, CCII, CFOA AND DVCC. <i>Journal of Circuits, Systems and Computers</i> , 2009 , 18, 629-645	0.9 4
46	Novel low-power accurate wide-band CMOS negative-second-generation-current-conveyor realizations based on Floating-Current-Source building blocks 2009 ,	4
45	A New Approach to Realize Variable Gain Amplifiers. <i>Analog Integrated Circuits and Signal Processing</i> , 2002 , 30, 257-263	1.2 4
44	A Modified CMOS Balanced Output Transconductor with Extended Linearity. <i>Analog Integrated Circuits and Signal Processing</i> , 2003 , 36, 239-244	1.2 4
43	Design of high-frequency amplifiers 1983 , 5, 9-11	4

42	Technology Scaling Roadmap for FinFET-Based FPGA Clusters Under Process Variations. <i>Journal of Circuits, Systems and Computers</i> , 2018 , 27, 1850056	0.9	4
41	Image encryption based on double-humped and delayed logistic maps for biomedical applications 2017 ,		3
40	Generalized delayed logistic map suitable for pseudo-random number generation 2015 ,		3
39	Current feedback operational amplifier (CFOA) based fractional order oscillators 2014 ,		3
38	CMOS digitally programmable lossless floating inductor 2010 ,		3
37	Synthesis of Oscillators Using Limit Variables and NAM Expansion. <i>Active and Passive Electronic Components</i> , 2011 , 2011, 1-13	0.3	3
36	New CMOS operational transresistance amplifier 2008 ,		3
35	Realizations of fully differential voltage second generation current conveyor with an application. <i>International Journal of Circuit Theory and Applications</i> , 2008 , 38, n/a-n/a	2	3
34	New op-amp-RC to G m -C transformation method. <i>Analog Integrated Circuits and Signal Processing</i> , 2006 , 49, 79-86	1.2	3
33	Multifunction Fractional Inverse Filter Based on OTRA 2019 ,		3
32	A Simple BJT Inverse Memristor Emulator and Its Application in Chaotic Oscillators 2019 ,		3
31	A comparative study of the Voltage-to-Time converters (VTCs) and the Voltage-to-Frequency converters (VFCs) circuits 2016 ,		2
30	The impact of FinFET technology scaling on critical path performance under process variations 2015 ,		2
29	GENERATION OF CFOA, CCII AND DVCC BASED OSCILLATORS FROM PASSIVE RLC FILTER. <i>Journal of Circuits, Systems and Computers</i> , 2011 , 20, 621-639	0.9	2
28	Generation and classification of CCII and ICCII based negative impedance converter circuits using NAM expansion. <i>International Journal of Circuit Theory and Applications</i> , 2010 , 39, n/a-n/a	2	2
27	Port Interchange in Voltage Mode Current Conveyor Based Filters. <i>Journal of Circuits, Systems and Computers</i> , 1997 , 07, 543-561	0.9	2
26	Low Voltage CMOS Fully Differential Current Feedback Amplifier with Controllable 3-dB Bandwidth 2007 ,		2
25	New Current-Mode Bandpass Filters Using Three Single-Output ICCIIs. <i>Active and Passive Electronic Components</i> , 2007 , 2007, 1-5	0.3	2

24	A new single operational amplifier active RC bandpass network with reduced sensitivity to amplifier gain-bandwidth product. <i>International Journal of Circuit Theory and Applications</i> , 1978 , 6, 321-326		2
23	A Universal Fractional-Order Memelement Emulation Circuit 2019 ,		2
22	A switched chaotic encryption scheme using multi-mode generalized modified transition map. <i>Multimedia Tools and Applications</i> , 2021 , 80, 5373-5402	2.5	2
21	On-the-Fly Parallel Processing IP-Core for Image Blur Detection, Compression, and Chaotic Encryption Based on FPGA. <i>IEEE Access</i> , 2021 , 9, 82726-82746	3.5	2
20	New Op-Amp Circuits Realizations Using Genetic Algorithm. <i>Journal of Circuits, Systems and Computers</i> , 2017 , 26, 1750131	0.9	1
19	A new highly-linear highly-sensitive differential voltage-to-time converter circuit in CMOS 65nm technology 2015 ,		1
18	Two topologies of fractional-order oscillators based on CFOA and RC networks 2018 ,		1
17	High speed fully differential second generation current conveyor 2010 ,		1
16	BODE-TYPE EQUALIZERS USING CURRENT CONVEYORS. <i>Journal of Circuits, Systems and Computers</i> , 2009 , 18, 433-442	0.9	1
15	Low Voltage CMOS Fully Differential Current Feedback Amplifier with Controllable 3-dB Bandwidth 2007 ,		1
14	Comment on The effects of non-idealities and current limitations on the simulated inductances employing current conveyors <i>Analog Integrated Circuits and Signal Processing</i> , 2007 , 50, 283-283	1.2	1
13	A Novel Exponential Voltage-to-Current Converter. <i>Circuits, Systems, and Signal Processing</i> , 2002 , 21, 473-483	2.2	1
12	A 0.002-mm ² 8-bit 1-MS/s low-power time-based DAC (T-DAC). <i>IET Circuits, Devices and Systems</i> , 2021 , 15, 738	1.1	1
11	Fractional-order Nonminimum-phase Filter Design 2019 ,		1
10	A new design methodology for voltage-to-frequency converters (VFCs) circuits suitable for time-based analog-to-digital converters (T-ADCs). <i>Analog Integrated Circuits and Signal Processing</i> , 2018 , 94, 277-287	1.2	1
9	A Low-Power Time-Domain Comparator for IoT Applications 2018 ,		1
8	A Novel Refreshment Circuit for 2T1M Neuromorphic Synapse. <i>Journal of Circuits, Systems and Computers</i> , 2021 , 30, 2250047	0.9	1
7	Increasing LPG production by adding volatile hydrocarbons to reduce import gap in Egypt. <i>Journal of Petroleum Exploration and Production</i> , 2020 , 10, 3733-3750	2.2	0

6	Design of odd nth-order elliptic high-pass filters employing OTRAs. <i>IET Circuits, Devices and Systems</i> , 2019 , 13, 174-184	1.1	0
5	A Low-Voltage Low-Power Rail-to-Rail Constant g_m Transconductance Amplifier. <i>Analog Integrated Circuits and Signal Processing</i> , 2000 , 24, 129-139	1.2	
4	CMOS Programmable Imager Implementing Pre-Processing Operations. <i>Analog Integrated Circuits and Signal Processing</i> , 1999 , 19, 279-293	1.2	
3	Letters to the editor a new phase and magnitude compensated weighted summer using three operational amplifiers. <i>International Journal of Circuit Theory and Applications</i> , 1983 , 11, 339-342	2	
2	Conversion of a band-pass resonator to an all-pass or a notch filter. <i>International Journal of Electronics</i> , 1975 , 38, 559-562	1.2	
1	A universal notch filter. <i>International Journal of Circuit Theory and Applications</i> , 1979 , 7, 139-142	2	