Erkan YÃœce

List of Publications by Year
in descending order

128	3,313	126708	197535
papers	citations	33 h-index	49 g-index

129	129	129	420
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Novel Voltage-Mode All-Pass Filter Based onÂUsingÂDVCCs. Circuits, Systems, and Signal Processing, 2010, 29, 391-402.	1.2	114
2	A Modified CFOA and Its Applications to Simulated Inductors, Capacitance Multipliers, and Analog Filters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 266-275.	3.5	107
3	New resistorless and electronically tunable realization of dual-output VM all-pass filter using VDIBA. Analog Integrated Circuits and Signal Processing, 2013, 74, 141-154.	0.9	104
4	Universal current-mode filters and parasitic impedance effects on the filter performances. International Journal of Circuit Theory and Applications, 2008, 36, 161-171.	1.3	96
5	Limitations of the Simulated Inductors Based on a Single Current Conveyor. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2006, 53, 2860-2867.	0.1	81
6	A Versatile Active Circuit for Realising Floating Inductance, Capacitance, FDNR and Admittance Converter. Analog Integrated Circuits and Signal Processing, 2006, 47, 199-202.	0.9	79
7	A Novel Grounded Inductor Realization Using a Minimum Number of Active and Passive Components. ETRI Journal, 2005, 27, 427-432.	1.2	75
8	All-Grounded Passive Elements Voltage-Mode DVCC-Based Universal Filters. Circuits, Systems, and Signal Processing, 2010, 29, 295-309.	1.2	68
9	Resistorless floating immittance function simulators employing current controlled conveyors and a grounded capacitor. Electrical Engineering, 2006, 88, 519-525.	1.2	64
10	A Simple Schmitt Trigger Circuit with Grounded Passive Elements and Its Application to Square/Triangular Wave Generator. Circuits, Systems, and Signal Processing, 2012, 31, 877-888.	1.2	63
11	Novel lossless and lossy grounded inductor simulators consisting of a canonical number of components. Analog Integrated Circuits and Signal Processing, 2009, 59, 77-82.	0.9	62
12	Grounded Inductor Simulators With Improved Low-Frequency Performances. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 1079-1084.	2.4	60
13	CCII-Based Grounded to Floating Immittance Converter and a Floating Inductance Simulator. Analog Integrated Circuits and Signal Processing, 2006, 46, 287-291.	0.9	58
14	On the implementation of the floating simulators employing a single active device. AEU - International Journal of Electronics and Communications, 2007, 61, 453-458.	1.7	58
15	A novel floating simulation topology composed of only grounded passive components. International Journal of Electronics, 2010, 97, 249-262.	0.9	56
16	DXCCII-based grounded inductance simulators and filter applications. Microelectronics Journal, 2011, 42, 1074-1081.	1.1	56
17	A new full-wave rectifier circuit employing single dual-X current conveyor. International Journal of Electronics, 2008, 95, 777-784.	0.9	55
18	New CCII-based versatile structure for realizing PID controller and instrumentation amplifier. Microelectronics Journal, 2010, 41, 311-316.	1.1	55

#	ARTICLE	IF	CITATIONS
19	On the realization of the floating simulators using only grounded passive components. Analog Integrated Circuits and Signal Processing, 2006, 49, 161-166.	0.9	51
20	On the Realization of Simulated Inductors withÂReduced Parasitic Impedance Effects. Circuits, Systems, and Signal Processing, 2009, 28, 451-465.	1.2	51
21	Memstor, memstance simulations via a versatile 4-port built with new adder and subtractor circuits. International Journal of Electronics, 2015, 102, 911-931.	0.9	49
22	NOVEL FLOATING INDUCTANCE AND FDNR SIMULATORS EMPLOYING CCII+s. Journal of Circuits, Systems and Computers, 2006, 15, 75-81.	1.0	48
23	CCII-based PID controllers employing grounded passive components. AEU - International Journal of Electronics and Communications, 2006, 60, 399-403.	1.7	46
24	Universal Current-Mode Active-C Filter Employing Minimum Number of Passive Elements. Analog Integrated Circuits and Signal Processing, 2006, 46, 169-171.	0.9	45
25	Unity/Variable-gain Voltage-mode/Current-mode First-order All-pass Filters Using Single Dual-X Second-generation Current Conveyor. IETE Journal of Research, 2010, 56, 305-312.	1.8	45
26	A new ICCII based resistor-less current-mode first-order universal filter with electronic tuning capability. Microelectronics Journal, 2017, 67, 101-110.	1.1	41
27	Inverting CFOA Based Lossless and Lossy Grounded Inductor Simulators. Circuits, Systems, and Signal Processing, 2015, 34, 3081-3100.	1.2	39
28	Voltage-Mode Multifunction Filters Employing a Single DVCC and Grounded Capacitors. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 2216-2221.	2.4	38
29	A First-Order Fully Cascadable Current-Mode Universal Filter Composed of Dual Output CCIIs and a Grounded Capacitor. Journal of Circuits, Systems and Computers, 2016, 25, 1650042.	1.0	38
30	A secondâ€generation voltage conveyor (VCII)â€“based simulated grounded inductor. International Journal of Circuit Theory and Applications, 2020, 48, 1180-1193.	1.3	38
31	CCII based more tunable voltage-mode all-pass filters and their quadrature oscillator applications. AEU - International Journal of Electronics and Communications, 2014, 68, 1-9.	1.7	37
32	Modified DVCC based quadrature oscillator and lossless grounded inductor simulator using grounded capacitor(s). AEU - International Journal of Electronics and Communications, 2017, 76, 86-96.	1.7	37
33	ICCII-based universal current-mode analog filter employing only grounded passive components. Analog Integrated Circuits and Signal Processing, 2009, 58, 161-169.	0.9	36
34	Universal resistorless currentâ€mode filters employing CCCIIs. International Journal of Circuit Theory and Applications, 2008, 36, 739-755.	1.3	35
35	New CFOA-based first-order all-pass filters and their applications. AEU - International Journal of Electronics and Communications, 2019, 103, 57-63.	1.7	35
36	On the realization of high-order current-mode filter employing current controlled conveyors. Computers and Electrical Engineering, 2008, 34, 165-172.	3.0	33

#	ARTICLE	IF	CITATIONS
37	Novel floating simulated inductors with wider operating-frequency ranges. Microelectronics Journal, 2009, 40, 928-938.	1.1	33
38	Design of a Simple Current-Mode Multiplier Topology Using a Single CCCII+. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 631-637.	2.4	31
39	High Input Impedance NMOS-based Phase Shifter with Minimum Number of Passive Elements. Circuits, Systems, and Signal Processing, 2012, 31, 51-60.	1.2	31
40	REALIZATION OF FIRST-ORDER CURRENT-MODE FILTERS WITH LOW NUMBER OF MOS TRANSISTORS. Journal of Circuits, Systems and Computers, 2013, 22, 1250071.	1.0	31
41	Grounded capacitance multipliers based on active elements. AEU - International Journal of Electronics and Communications, 2017, 79, 243-249.	1.7	31
42	Voltage-mode first-order universal filter realizations based on subtractors. AEU - International Journal of Electronics and Communications, 2018, 90, 140-146.	1.7	31
43	The Effects of Non-Idealities and Current Limitations on the Simulated Inductances Employing Current Conveyors. Analog Integrated Circuits and Signal Processing, 2006, 46, 103-110.	0.9	29
44	Stability problems in universal current-mode filters. AEU - International Journal of Electronics and Communications, 2007, 61, 580-588.	1.7	26
45	A simple CMOS-based inductor simulator and frequency performance improvement techniques. AEU - International Journal of Electronics and Communications, 2012, 66, 884-891.	1.7	25
46	A new DVCC-based fully cascadable voltage-mode full-wave rectifier. Journal of Computational Electronics, 2016, 15, 1440-1449.	1.3	25
47	Single DDCC based new immittance function simulators employing only grounded passive elements and their applications. Microelectronics Journal, 2019, 83, 94-103.	1.1	25
48	CFOA based a new grounded inductor simulator and its applications. Microelectronics Journal, 2019, 90, 297-305.	1.1	24
49	A new CFOA based grounded capacitance multiplier. AEU - International Journal of Electronics and Communications, 2020, 115, 153034.	1.7	24
50	ALL GROUNDED PASSIVE ELEMENTS CURRENT-MODE ALL-PASS FILTER. Journal of Circuits, Systems and Computers, 2009, 18, 31-43.	1.0	23
51	An Electronically Fine-Tunable Multi-Inputâ€“Single-Output Universal Filter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2011, 58, 356-360.	2.2	23
52	Allâ€pass sections with rich cascadability and IC realization suitability. International Journal of Circuit Theory and Applications, 2012, 40, 477-488.	1.3	23
53	CMOS FIRST-ORDER CURRENT-MODE ALL-PASS FILTER WITH ELECTRONIC TUNING CAPABILITY AND ITS APPLICATIONS. Journal of Circuits, Systems and Computers, 2013, 22, 1350007.	1.0	23
54	Electronically Tunable Simulated Transformer and Its Application to Stagger-Tuned Filter. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2083-2088.	2.4	22

#	ARTICLE	IF	CITATIONS
55	New low component count floating inductor simulators consisting of a single DDCC. Analog Integrated Circuits and Signal Processing, 2009, 58, 61-66.	0.9	22
56	ICCII-Based Voltage-Mode Filter with Single Input and Six Outputs Employing Grounded Capacitors. Circuits, Systems, and Signal Processing, 2006, 25, 559-566.	1.2	21
57	Low-Component-Count Insensitive Current-Mode and Voltage-Mode PID, PI and PD Controllers. Frequenz, 2006, 60, .	0.6	21
58	A new low-power current-mode MOS only versatile precision rectifier. AEU - International Journal of Electronics and Communications, 2018, 83, 40-51.	1.7	21
59	A novel phase shifter using two NMOS transistors and passive elements. Analog Integrated Circuits and Signal Processing, 2010, 62, 77-81.	0.9	20
60	NOVEL CMOS TECHNOLOGY-BASED LINEAR GROUNDED VOLTAGE CONTROLLED RESISTOR. Journal of Circuits, Systems and Computers, 2011, 20, 447-455.	1.0	20
61	Commercially Available Active Device Based Grounded Inductor Simulator and Universal Filter with Improved Low Frequency Performances. Journal of Circuits, Systems and Computers, 2017, 26, 1750052.	1.0	20
62	A New Electronically Fine Tunable Grounded Voltage Controlled Positive Resistor. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 451-455.	2.2	19
63	A new first-order universal filter consisting of two ICCIIÂ+Âs and a grounded capacitor. AEU - International Journal of Electronics and Communications, 2021, 137, 153802.	1.7	19
64	Current-mode electronically tunable biquadratic filters consisting of only CCCIIs and grounded capacitors. Microelectronics Journal, 2009, 40, 1719-1725.	1.1	18
65	A New Simulated Inductor with Reduced Series Resistor Using a Single VCIIÂ±. Electronics (Switzerland), 2021, 10, 1693.	1.8	18
66	Realization of arbitrary current transfer functions based on commercially available CCIIâ€‰+â€‰s. International Journal of Circuit Theory and Applications, 2014, 42, 659-670.	1.3	17
67	Grounded capacitor-based new floating inductor simulators and a stability test. Turkish Journal of Electrical Engineering and Computer Sciences, 2015, 23, 2138-2149.	0.9	17
68	A New Transresistance-Mode Instrumentation Amplifier with Low Number of MOS Transistors and Electronic Tuning Opportunity. Journal of Circuits, Systems and Computers, 2016, 25, 1650022.	1.0	17
69	A New DVCC+ Based Second-Order Current-Mode Universal Filter Consisting of Only Grounded Capacitors. Journal of Circuits, Systems and Computers, 2017, 26, 1750130.	1.0	17
70	New mixedâ€•mode secondâ€•generation voltage conveyor based firstâ€•order allâ€•pass filter. IET Circuits, Devices and Systems, 2020, 14, 901-907.	0.9	17
71	DO-CCII/DO-DVCC Based Electronically Fine Tunable Quadrature Oscillators. Journal of Circuits, Systems and Computers, 2017, 26, 1750025.	1.0	16
72	Inverting voltage buffer based lossless grounded inductor simulators. AEU - International Journal of Electronics and Communications, 2018, 83, 131-137.	1.7	16

#	ARTICLE	IF	CITATIONS
73	CURRENT-MODE ACTIVE-C FILTER EMPLOYING REDUCED NUMBER OF CCCII+s. Journal of Circuits, Systems and Computers, 2007, 16, 507-516.	1.0	15
74	A HIGH INPUT IMPEDANCE VOLTAGE-MODE ALL-PASS/NOTCH FILTER USING A SINGLE VARIABLE GAIN CURRENT CONVEYOR. Journal of Circuits, Systems and Computers, 2008, 17, 827-834.	1.0	15
75	A Novel CMOS-Based Voltage-Mode First-Order Phase Shifter Employing a Grounded Capacitor. Circuits, Systems, and Signal Processing, 2010, 29, 235-245.	1.2	15
76	Grounded capacitor based fully cascadable electronically tunable current-mode universal filter. AEU - International Journal of Electronics and Communications, 2017, 79, 116-123.	1.7	15
77	A NEW ACTIVE NETWORK SUITABLE FOR REALIZING LADDER FILTERS AND TRANSFORMER SIMULATOR. Journal of Circuits, Systems and Computers, 2007, 16, 29-41.	1.0	14
78	Derivation of low-power first-order low-pass, high-pass and all-pass filters. Analog Integrated Circuits and Signal Processing, 2012, 70, 151-156.	0.9	14
79	Comment on â€œrealization of series and parallel R-L and C-D impedances using single differential voltage current conveyorâ€. Analog Integrated Circuits and Signal Processing, 2006, 49, 91-92.	0.9	13
80	A novel voltage-mode universal filter composed of two terminal active devices. AEU - International Journal of Electronics and Communications, 2018, 86, 202-209.	1.7	13
81	A voltage-mode PID controller using a single CFOA and only grounded capacitors. Microelectronics Journal, 2018, 81, 84-93.	1.1	13
82	Supplementary single active device based grounded immittance function simulators. AEU - International Journal of Electronics and Communications, 2018, 94, 311-321.	1.7	13
83	Supplementary CCII based second-order universal filter and quadrature oscillators. AEU - International Journal of Electronics and Communications, 2020, 118, 153138.	1.7	13
84	Universal Current-Mode Active-C Filters Employing Only Plus-Type Current Controlled Conveyors. Frequenz, 2006, 60, .	0.6	12
85	BANDWIDTH EXPANSION METHODS OF INDUCTANCE SIMULATOR CIRCUITS AND VOLTAGE-MODE BIQUADS. Journal of Circuits, Systems and Computers, 2011, 20, 557-572.	1.0	12
86	Supplementary DDCC+ based universal filter with grounded passive elements. AEU - International Journal of Electronics and Communications, 2021, 132, 153652.	1.7	12
87	A first-order universal filter including a grounded capacitor and two CFOAs. Analog Integrated Circuits and Signal Processing, 2022, 112, 379-390.	0.9	12
88	DESIGN AND STABILITY ANALYSIS OF MIXED-MODE FILTERS CONTAINING ONLY GROUNDED CAPACITORS. Journal of Circuits, Systems and Computers, 2010, 19, 1345-1363.	1.0	11
89	A CMOS CURRENT RECTIFIER CONFIGURATION SUITABLE FOR INTEGRATION. Journal of Circuits, Systems and Computers, 2012, 21, 1250052.	1.0	11
90	A novel full-wave rectifier/sinusoidal frequency doubler topology based on CFOAs. Analog Integrated Circuits and Signal Processing, 2017, 93, 351-362.	0.9	11

#	ARTICLE	IF	CITATIONS
91	DVCC+ based multifunction and universal filters with the high input impedance features. Analog Integrated Circuits and Signal Processing, 2020, 103, 325-335.	0.9	11
92	A New Grounded Capacitance Multiplier Using a Single ICFOA and a Grounded Capacitor. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 729-733.	2.2	11
93	Single DDCCâ^' based simulated floating inductors and their applications. IET Circuits, Devices and Systems, 2020, 14, 796-804.	0.9	11
94	A novel dual output universal filter topology using a single current conveyor. Electrical Engineering, 2007, 89, 563-567.	1.2	10
95	A BJT technology-based current-mode tunable all-pass filter. Microelectronics Journal, 2009, 40, 921-927.	1.1	10
96	A new wideband electronically tunable grounded resistor employing only three MOS transistors. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 2442-2453.	0.9	10
97	Two lossy integrator loop based current-mode electronically tunable universal filter employing only grounded capacitors. Microelectronics Journal, 2017, 59, 1-9.	1.1	10
98	VARIOUS CURRENT-MODE AND VOLTAGE-MODE INSTRUMENTATION AMPLIFIER TOPOLOGIES SUITABLE FOR INTEGRATION. Journal of Circuits, Systems and Computers, 2010, 19, 689-699.	1.0	9
99	CCII+ based fully CMOS four-quadrant multiplier. , 2011, , .		9
100	Lowâ€€component count BJT technologyâ€€based currentâ€€controlled tunable resistors and their applications. IET Circuits, Devices and Systems, 2013, 7, 21-30.	0.9	9
101	Lossless grounded inductance simulation using only one modified dual output DDCC. , 2011, , .		8
102	Multiplier, frequency doubler and squarer circuits based on voltage controlled resistors. AEU - International Journal of Electronics and Communications, 2011, 65, 244-249.	1.7	8
103	Second-Order Voltage-Mode Universal Filters Using Two DVCCs, Two Grounded Capacitors and Four Resistors. Journal of Circuits, Systems and Computers, 2016, 25, 1650154.	1.0	8
104	Signal limitations of the current-mode filters employing current conveyors. AEU - International Journal of Electronics and Communications, 2008, 62, 193-198.	1.7	7
105	A High Performance Full-Wave Rectifier Using a Single CCII-, Two Diodes and Two Resistor. Scientia Iranica, 2017, .	0.3	7
106	A Mixed-Mode filter with DVCCs and grounded passive components only. AEU - International Journal of Electronics and Communications, 2022, 144, 154063.	1.7	7
107	High-order current-mode low-pass, high-pass and band-pass filter responses employing CCCIIs. , 2007, , .		6
108	A New Voltage-Mode Multifunctional Filter Using Only Two Voltage Followers and a Minimum Number of Passive Elements. Journal of Circuits, Systems and Computers, 2015, 24, 1550085.	1.0	6

#	Article	IF	Citations
109	A TUNABLE CIRCUIT FOR REALIZING ARBITRARY FLOATING IMPEDANCES. Journal of Circuits, Systems and Computers, 2008, 17, 513-524.	1.0	5
110	New highly linear tunable transconductor circuits with low number of MOS transistors. International Journal of Electronics, 2016, 103, 1301-1317.	0.9	5
111	Synthetic Transformer Design Using Commercially Available Active Components. Circuits, Systems, and Signal Processing, 2020, 39, 3770-3786.	1.2	5
112	CCII-based simulated floating inductor and floating capacitance multiplier. Analog Integrated Circuits and Signal Processing, 2022, 112, 417-432.	0.9	5
113	Comments on â€œSITO electronically tunable high output impedance current-mode universal filterâ€• Analog Integrated Circuits and Signal Processing, 2007, 50, 271-272.	0.9	4
114	A New CCII Based Voltage-Mode Multifunctional Filter with Reduced Number of Active and Passive Elements. Journal of Circuits, Systems and Computers, 2015, 24, 1550047.	1.0	4
115	DVCC+ Based Immittance Function Simulators Including Grounded Passive Elements Only. Journal of Circuits, Systems and Computers, 2021, 30, .	1.0	4
116	First-Order All-Pass Filters Comprising One Modified DDCC-. Journal of Circuits, Systems and Computers, 2022, 31, .	1.0	4
117	Analog Squarers Using Only Seven MOS Transistors and a Four Quadrant Analog Multiplier Application. Journal of Circuits, Systems and Computers, 2018, 27, 1850071.	1.0	3
118	A New Active Device Namely S-CCI and Its Applications: Simulated Floating Inductor and Quadrature Oscillators. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 3554-3564.	3.5	3
119	TO-CCII based voltage-mode universal biquadratic filter. , 2011, , .		2
120	Reply to comment on â€œNovel lossless and lossy grounded inductor simulators consisting of a canonical number of componentsâ€• Analog Integrated Circuits and Signal Processing, 2012, 72, 505-507.	0.9	2
121	MULTI-OUTPUT CURRENT FOLLOWER BASED CURRENT-MODE UNIVERSAL FILTER EMPLOYING ONLY GROUNDED CAPACITORS. Journal of Circuits, Systems and Computers, 2014, 23, 1450123.	1.0	2
122	Comment Reply â€œThe effects of non-idealities and current limitations on the simulated inductances employing current conveyorsâ€• Analog Integrated Circuits and Signal Processing, 2007, 51, 55-55.	0.9	1
123	SIFO voltage-mode universal filters employing TO-CCIIs. , 2012, , .		1
124	Negative impedance inverter and all-pass filter realizations using adder and subtractor blocks. , 2014, , .		1
125	MOSFETâ€C â€based grounded active inductors with electronically tunable properties. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22274.	0.8	1
126	CFOA-Based Floating Simulator Suitable for Realizing Frequency Dependent Negative Resistor. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
127	A new 7th-order log-domain elliptic video filter using E-cell circuits approach. , 2013, , .		0
128	Modified current follower-based immittance function simulators. International Journal of Electronics, 0, , 1-18.	0.9	0