Raj Senani

List of Publications by Year
in descending order

161	3,201	136950 32	243625 44
papers	citations	h-index	g-index

165	165	165	416
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Realization of a Class of Analog Signal Processing / Signal Generation Circuits: Novel Configurations Using Current Feedback Op-Amps. Frequenz, 1998, 52, 196-206.	0.9	98
2	New CFOA-Based Single-Element-Controlled Sinusoidal Oscillators. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 2014-2021.	4.7	87
3	KHN-equivalent biquad using current conveyors. Electronics Letters, 1995, 31, 626.	1.0	78
4	Current Feedback Operational Amplifiers and Their Applications. Analog Circuits and Signal Processing Series, 2013, , .	0.3	74
5	A novel application of four-terminal floating nullors. Proceedings of the IEEE, 1987, 75, 1544-1546.	21.3	73
6	Grounded-capacitor current-mode SRCO: Novel application of DVCCC. Electronics Letters, 2000, 36, 195.	1.0	70
7	New current-mode biquad filter. International Journal of Electronics, 1992, 73, 735-742.	1.4	63
8	Sinusoidal Oscillators and Waveform Generators using Modern Electronic Circuit Building Blocks. , 2016, , .		63
9	Realisation of linear voltage-controlled resistance in floating form. Electronics Letters, 1994, 30, 1909-1911.	1.0	62
10	New tunable synthetic floating inductors. Electronics Letters, 1980, 16, 382.	1.0	61
11	Implementation of Chua's chaotic circuit using current feedback op-amps. Electronics Letters, 1998, 34, 829.	1.0	61
12	New OTA-C universal current-mode/trans-admittance biquads. IEICE Electronics Express, 2005, 2, 8-13.	0.8	58
13	Novel single-resistance-controlled-oscillator configuration using current feedback amplifiers. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1996, 43, 698-700.	0.1	57
14	OTRA-based Grounded-FDNR and Grounded-Inductance Simulators and Their Applications. Circuits, Systems, and Signal Processing, 2012, 31, 489-499.	2.0	56
15	Novel lossless synthetic floating inductor employing a grounded capacitor. Electronics Letters, 1982, 18, 413.	1.0	54
16	On equivalent forms of single op-amp sinusoidal RC oscillators. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1994, 41, 617-624.	0.1	53
17	Bibliography on Nullors and Their Applications in Circuit Analysis, Synthesis and Design. Analog Integrated Circuits and Signal Processing, 2002, 33, 65-76.	1.4	52
18	Floating ideal FDNR using only two current conveyors. Electronics Letters, 1984, 20, 205.	1.0	50

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19	New canonic lossy inductor using a single CDBA and its application. International Journal of Electronics, 2016, 103, 1-13.	1.4	49
20	On the realization of floating active elements. IEEE Transactions on Circuits and Systems, 1986, 33, 323-324.	0.9	48
21	New grounded simulated inductance circuit using a single PFTFN. Analog Integrated Circuits and Signal Processing, 2010, 62, 105-112.	1.4	47
22	A Simple Approach of Deriving Single-Input-Multiple-Output Current- Mode Biquad Filters. Frequenz, 1996, 50, .	0.9	44
23	Novel mixed-mode universal biquad configuration. IEICE Electronics Express, 2005, 2, 548-553.	0.8	41
24	Novel circuit implementation of current conveyors using an o.a. and an o.t.a. Electronics Letters, 1980, 16, 2.	1.0	39
25	A simple configuration for realizing voltage-controlled impedances. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1992, 39, 52-59.	0.1	39
26	New analogue inverse filters realised with current feedback op-amps. International Journal of Electronics, 2011, 98, 1103-1113.	1.4	37
27	Inverse active filters employing CFOAs. Electrical Engineering, 2009, 91, 23-26.	2.0	36
28	New Universal Biquads Employing CFOAs. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 1299-1303.	2.2	35
29	New lossy/loss-less synthetic floating inductance configuration realized with only two CFOAs. Analog Integrated Circuits and Signal Processing, 2012, 73, 981-987.	1.4	35
30	Single op-amp sinusoidal oscillators suitable for generation of very low frequencies. IEEE Transactions on Instrumentation and Measurement, 1991, 40, 777-779.	4.7	34
31	Two new canonic single-CFOA oscillators with single resistor controls. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2005, 52, 860-864.	2.2	34
32	Configuration for realising a current-mode universal filter and dual-mode quadrature single resistor controlled oscillator. IET Circuits, Devices and Systems, 2012, 6, 159.	1.4	34
33	Active simulation of inductors using current conveyor. Electronics Letters, 1978, 14, 483.	1.0	33
34	New voltage controlled oscillators using CFOAs. AEU - International Journal of Electronics and Communications, 2009, 63, 209-217.	2.9	33
35	Floating immittance realisation: nullor approach. Electronics Letters, 1988, 24, 403.	1.0	31
36	Systematic generation of OTA-C sinusoidal oscillators. Electronics Letters, 1990, 26, 1457.	1.0	31

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37	Active-R design using CFOA-poles: new resonators, filters, and oscillators. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2001, 48, 504-511.	2.2	31
38	A configuration for realizing floating, linear, voltageâ€controlled resistance, inductance and FDNC elements. International Journal of Circuit Theory and Applications, 2009, 37, 709-719.	2.0	31
39	New multifunction active filter configuration employing current conveyors. Electronics Letters, 1990, 26, 1814.	1.0	30
40	Low-component-count active-only imittances and their application in realising simple multifunction biquads. Electronics Letters, 1998, 34, 718.	1.0	30
41	New canonic single-resistance-controlled sinusoidal oscillator using a single current conveyor. Electronics Letters, 1979, 15, 568.	1.0	29
42	Novel higher-order active filter design using current conveyors. Electronics Letters, 1985, 21, 1055.	1.0	29
43	New canonic sinusoidal oscillator with independent frequency control through a single grounded resistor. Proceedings of the IEEE, 1979, 67, 691-692.	21.3	28
44	A class of three-OTA-two-capacitor oscillators with non-interacting controls. International Journal of Electronics, 1993, 74, 459-463.	1.4	27
45	Universal current mode biquad using a single CFOA. International Journal of Electronics, 2004, 91, 175-183.	1.4	27
46	New Single-Resistance-Controlled Oscillator Configurations Using Unity-Gain Cells. Analog Integrated Circuits and Signal Processing, 2006, 46, 111-119.	1.4	27
47	New Rc-Active oscillator configuration employing unity-gain amplifiers. Electronics Letters, 1985, 21, 889.	1.0	26
48	New Types of Sinewave Oscillators. IEEE Transactions on Instrumentation and Measurement, 1985, IM-34, 461-463.	4.7	25
49	Class of floating, generalised, positive/negative immittance convertors/inverters realised with operational mirrored amplifiers. Electronics Letters, 1994, 30, 3-5.	1.0	25
50	Systematic realisation of quadrature oscillators using current differencing buffered amplifiers. IET Circuits, Devices and Systems, 2011, 5, 203.	1.4	23
51	Novel active RC circuit for floating-inductor simulation. Electronics Letters, 1979, 15, 679.	1.0	22
52	Minimal realisations of a class of operational-mirrored-amplifier-based floating impedances. Electronics Letters, 1994, 30, 1113-1114.	1.0	22
53	Comment: CMOS differential difference current conveyors and their applications. IET Circuits, Devices and Systems, 2001, 148, 335.	0.6	22
54	Multifunction CM/VM Biquads Realized with a Single CFOA and Grounded Capacitors. AEU - International Journal of Electronics and Communications, 2003, 57, 301-308.	2.9	22

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55	Grounded-capacitor SRCOs using a single differential difference complementary current feedback amplifier. IET Circuits, Devices and Systems, 2005, 152, 38.	0.6	22
56	Explicit-current-output sinusoidal oscillators employing only a single current-feedback op-amp. IEICE Electronics Express, 2005, 2, 14-18.	0.8	21
57	New voltage-model/current-mode universal biquad filter using unity-gain cells. International Journal of Electronics, 2006, 93, 769-775.	1.4	21
58	New universal filter using only current followers as active elements. AEU - International Journal of Electronics and Communications, 2006, 60, 251-256.	2.9	21
59	New CFOA-based sinusoidal oscillators retaining independent control of oscillation frequency even under the influence of parasitic impedances. Analog Integrated Circuits and Signal Processing, 2012, 73, 427-437.	1.4	21
60	Electronically tunable grounded/floating inductance simulators using Z-copy CFCCC. Turkish Journal of Electrical Engineering and Computer Sciences, 2018, 26, 1041-1055.	1.4	21
61	On the transformation of RC-active oscillators. IEEE Transactions on Circuits and Systems, 1987, 34, 1091-1093.	0.9	20
62	Realization of voltage-controlled impedances. IEEE Transactions on Circuits and Systems, 1991, 38, 1081-1086.	0.9	20
63	Systematic derivation of all possible canonic OTA-C sinusoidal oscillators. Journal of the Franklin Institute, 1993, 330, 885-903.	3.4	20
64	Universal Voltage-Mode/Current-Mode Biquad Filter Realised with Current Feedback Op-Amps. Frequenz, 1997, 51, .	0.9	20
65	A NEW FOUR-CC-BASED CONFIGURATION FOR REALIZING A VOLTAGE-MODE BIQUAD FILTER. Journal of Circuits, Systems and Computers, 2002, 11, 213-218.	1.5	20
66	A New Floating Current-Controlled Positive Resistance Using Mixed Translinear Cells. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2004, 51, 374-377.	2.2	20
67	Electronically-Controlled Current-mode second order Sinusoidal Oscillators Using MO-OTAs and Grounded Capacitors. Circuits and Systems, 2011, 02, 65-73.	0.1	20
68	Novel sinusoidal oscillator employing grounded capacitors. Electronics Letters, 1980, 16, 62.	1.0	19
69	Linear sinusoidal VCOs: new configurations using current-feedback-op-amps. International Journal of Electronics, 2010, 97, 263-272.	1.4	19
70	On the realisation of canonic singleâ€resistanceâ€controlled oscillators using third generation current conveyors. IET Circuits, Devices and Systems, 2017, 11, 10-20.	1.4	19
71	New canonic active RC realizations of grounded and floating inductors. Proceedings of the IEEE, 1978, 66, 803-804.	21.3	18
72	A new universal biquad filter using differential difference amplifiers and its practical realization. Analog Integrated Circuits and Signal Processing, 2013, 75, 293-297.	1.4	17

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73	Linearly tunable Wien bridge oscillator realised with operational transconductance amplifiers. Electronics Letters, 1989, 25, 19-21.	1.0	16
74	Versatile voltage-controlled impedance configuration. IET Circuits, Devices and Systems, 1994, 141, 414.	0.6	16
75	New FTFN-based grounded-capacitor SRCO with explicit current-mode output and reduced number of resistors. AEU - International Journal of Electronics and Communications, 2005, 59, 48-51.	2.9	16
76	OTRA-Based Multi-Function Inverse Filter Configuration. Advances in Electrical and Electronic Engineering, 2018, 15, .	0.3	16
77	Extension of recently proposed two-CFOA-GC all pass filters to the realisation of first order universal active filters. AEU - International Journal of Electronics and Communications, 2022, 146, 154119.	2.9	16
78	New Single-Capacitor Simulations of Floating Inductors. Electrocomponent Science and Technology, 1982, 10, 7-12.	0.0	15
79	New linearly tunable CMOS-compatible OTA-C oscillators with non-interacting controls. Microelectronics Journal, 1994, 25, 115-123.	2.0	15
80	Novel SRCOs using first generation current conveyor. International Journal of Electronics, 2000, 87, 1187-1192.	1.4	15
81	Simulation of a Floating Inductance: A New Two-CFOA-Based Configuration. , 2013, , .		15
82	Three op amp floating immittance simulators: a retrospection. IEEE Transactions on Circuits and Systems, 1989, 36, 1463-1465.	0.9	14
83	Floating GNIC/GNII configuration realised with only a single OMA. Electronics Letters, 1995, 31, 423-425.	1.0	14
84	New Voltage Mode Universal Filters Using Only Two CDBAs. ISRN Electronics, 2013, 2013, 1-6.	1.1	14
85	New active-R sinusoidal VCOs with linear tuning laws. International Journal of Electronics, 1996, 80, 57-61.	1.4	13
86	On the Realization of Universal Current Mode Biquads Using a Single CFOA. Analog Integrated Circuits and Signal Processing, 2004, 41, 65-78.	1.4	13
87	CFOA-based state-variable biquad and its high-frequency compensation. IEICE Electronics Express, 2005, 2, 232-238.	0.8	13
88	On the realization of linear sinusoidal VCOs. International Journal of Electronics, 1993, 74, 727-733.	1.4	12
89	DUAL FUNCTION CAPABILITY OF RECENTLY PROPOSED FOUR-CURRENT-CONVEYOR-BASED VM BIQUAD. Journal of Circuits, Systems and Computers, 2005, 14, 51-56.	1.5	12
90	Sinusoidal oscillators with explicit current output employing currentâ€feedback opâ€amps. International Journal of Circuit Theory and Applications, 2010, 38, 131-147.	2.0	12

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91	SYNTHESIS OF LINEAR VCOs: THE STATE-VARIABLE APPROACH. Journal of Circuits, Systems and Computers, 2011, 20, 587-606.	1.5	12
92	Novel active RC realisations of tunable floating inductors. Electronics Letters, 1980, 16, 154.	1.0	11
93	Simple sinusoidal oscillator using opamp compensation poles. Electronics Letters, 1993, 29, 452.	1.0	11
94	Generation of equivalent forms of operational transâ€conductance amplifierâ€RC sinusoidal oscillators: the nullor approach. Journal of Engineering, 2014, 2014, 324-331.	1.1	11
95	Two Simple Analog Multiplier Based Linear VCOs Using a Single Current Feedback Op-Amp. Circuits and Systems, 2010, 01, 1-4.	0.1	11
96	CFOAâ€based simple mixedâ€mode firstâ€order universal filter configurations. International Journal of Circuit Theory and Applications, 2022, 50, 2631-2641.	2.0	11
97	Realisation of single-resistance-controlled lossless floating inductance. Electronics Letters, 1978, 14, 828.	1.0	10
98	Improved grounded-capacitor SRCO using only a single PFTFN. Analog Integrated Circuits and Signal Processing, 2006, 50, 147-149.	1.4	10
99	Simple Simulated Inductor, Low-Pass/Band-Pass Filter and Sinusoidal Oscillator Using OTRA. Circuits and Systems, 2016, 07, 83-99.	0.1	10
100	Novel application of generalised current conveyor. Electronics Letters, 1984, 20, 169.	1.0	9
101	Three new CFOA-based SIMO-type universal active filter configurations with unrivalled features. AEU - International Journal of Electronics and Communications, 2022, 153, 154285.	2.9	9
102	On the synthesis of a class of immittances and filters using grounded capacitors. International Journal of Circuit Theory and Applications, 1983, 11, 410-415.	2.0	8
103	Some Simple Techniques of Generating OTA-C Sinusoidal Oscillators. Frequenz, 1991, 45, .	0.9	8
104	New OTRA-Based Generalized Impedance Simulator. ISRN Electronics, 2013, 2013, 1-10.	1.1	8
105	New grounded immittance simulators employing a single CFCC. Journal of Engineering, 2017, 2017, 435-447.	1.1	8
106	Some observations concerning the methods of filter/oscillator realization using the concept of FDNR. Proceedings of the IEEE, 1979, 67, 1665-1666.	21.3	7
107	Alternative modification of the classical GIC structure. Electronics Letters, 1996, 32, 1329.	1.0	7
108	Tunable Current-Mode Universal 220 Frequenz 59 (2005) 9-10 Biquads employing only three MOCCs and all grounded passive elements: Additional New Realizations. Frequenz, 2005, 59, 220-224.	0.9	7

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109	Comment: Practical voltage/current-controlled grounded resistor with dynamic range extension. IET Circuits, Devices and Systems, 2008, 2, 465.	1.4	7
110	OTRA, its implementations and applications: a state-of-the-art review. Analog Integrated Circuits and Signal Processing, 2018, 97, 281-311.	1.4	7
111	Inverse Analog Filters: History, Progress and Unresolved Issues. Electronics (Switzerland), 2022, 11, 841.	3.1	7
112	New Tunable SIMO-Type Current Mode Universal Biquad Using only three MOCCs and all Grounded Passive Elements. Frequenz, 2003, 57, .	0.9	6
113	A systematic realization of current mode universal biquad filters. International Journal of Electronics, 2006, 93, 623-636.	1.4	5
114	Realization of SRCOs: another new application of DDAs. Analog Integrated Circuits and Signal Processing, 2013, 76, 267-272.	1.4	5
115	Fully-differential current-mode higher order filters using all grounded passive elements. AEU - International Journal of Electronics and Communications, 2018, 97, 102-109.	2.9	5
116	Canonic Synthetic Floating-Inductance Circuits Employing Only a Single Component-Matching Condition. IETE Journal of Research, 1981, 27, 201-204.	2.6	4
117	Linear resistance-to-frequency conversion employing integrated circuit operational amplifiers. International Journal of Electronics, 1981, 50, 485-491.	1.4	4
118	Analysis, Synthesis and Design of New Types of RC-Active Sinusoidal Oscillators (Part I). Frequenz, 1988, 42, .	0.9	4
119	New Very-Low-Frequency Third-Order Quadrature Sinusoidal Oscillators Using CFOAs. Circuits, Systems, and Signal Processing, 2022, 41, 4293-4323.	2.0	3
120	Simple approach for generating active-compensated building blocks. Electronics Letters, 1988, 24, 916.	1.0	2
121	ELECTRONICALLY-CONTROLLABLE FLOATING INDUCTOR USING OPERATIONAL MIRRORED AMPLIFIER. Journal of Circuits, Systems and Computers, 2009, 18, 59-66.	1.5	2
122	A NEW ELECTRONICALLY-TUNABLE ACTIVE-ONLY UNIVERSAL BIQUAD. Journal of Circuits, Systems and Computers, 2011, 20, 549-555.	1.5	2
123	ON THE TRANSFORMATION OF GROUNDED INDUCTORS TO FLOATING INDUCTORS USING OFA AND FCCII. Journal of Circuits, Systems and Computers, 2012, 21, 1250044.	1.5	2
124	Basic Sinusoidal Oscillators and Waveform Generators Using IC Building Blocks. , 2016, , 3-70.		2
125	Current-Controlled Sinusoidal Oscillators Using Current-Controllable Building Blocks. , 2016, , 395-423.		2
126	Generation of Equivalent Oscillators Using Various Network Transformations. , 2016, , 447-475.		2

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127	New SRCO with explicit current-mode output using two CCs and grounded capacitors. Turkish Journal of Electrical Engineering and Computer Sciences, 0, , .	1.4	2
128	CMOS Voltage-Controlled Negative Resistance Realization. American Journal of Electrical and Electronic Engineering, 2020, 8, 120-124.	1.4	2
129	FGMTL based Low Voltage Current Mode Squarer/Divider Circuit. , 2021, , .		2
130	Reply: Active simulation of inductors using current conveyor. Electronics Letters, 1979, 15, 113.	1.0	1
131	Reply: Novel sinusoidal oscillator employing grounded capacitors. Electronics Letters, 1980, 16, 863.	1.0	1
132	Realization of Sinusoidal Oscillators Using CCs. , 2015, , 193-218.		1
133	First, Second and Higher Order Filter Design Using Current Conveyors. , 2015, , 139-191.		1
134	Analog Filter Design Revisited: Circuit Configurations Using Newer Varieties of CCs. , 2015, , 371-447.		1
135	Realization of Sinusoidal Oscillators Using Current Feedback Op-Amps. , 2016, , 213-268.		1
136	Electronically Controllable OTA-C and Gm-C Sinusoidal Oscillators. , 2016, , 143-173.		1
137	Sinusoidal Oscillators Using Current Conveyors. , 2016, , 175-212.		1
138	Varieties of Current Conveyors. , 2015, , 315-348.		1
139	Nullors, Their Bipolar and CMOS Implementations and Applications in Analog Circuit Synthesis and Design. , 2013, , 31-59.		1
140	Synthesis of Sinusoidal Oscillators Using CFOAs. Analog Circuits and Signal Processing Series, 2013, , 131-179.	0.3	1
141	New CMOS linear voltage-controlled floating positive and negative resistances. Analog Integrated Circuits and Signal Processing, 0, , 1.	1.4	1
142	Comments on: â€˜Floating ideal inductor with one d.v.c.c.s.â€™ and â€˜Novel capacitor flotation schemeâ€™. Electronics Letters, 1980, 16, 117.	1.0	0
143	Realisation of Linear Circuits Using IC Op-Amps: Some Appraisals. IETE Journal of Education Online, 1990, 31, 61-70.	0.6	0
144	New macromodels of a switch for SPICE applications. IEEE Transactions on Education, 1997, 40, 273-277.	2.4	0

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145	Realization of Other Building Blocks Using CFOAs. Analog Circuits and Signal Processing Series, 2013, , 201-221.	0.3	0
146	From Editor-in-Chief's Desk. IETE Journal of Education Online, 2015, 56, 39-39.	0.6	0
147	From Editor-in-Chief's Desk. IETE Journal of Education Online, 2016, 57, 45-45.	0.6	0
148	From Editor-in-Chief's Desk. IETE Journal of Education Online, 2016, 57, 1-1.	0.6	0
149	Current Directions of Research and Concluding Remarks. , 2016, , 575-588.		0
150	Single-Element-Controlled and Other Varieties of Op-Amp Sinusoidal Oscillators. , 2016, , 73-141.		0
151	Sinusoidal Oscillator Realizations Using Modern Electronic Circuit Building Blocks. , 2016, , 269-366.		0
152	From Editor-in-Chief's Desk. IETE Journal of Education Online, 2017, 58, 2-2.	0.6	0
153	Rebuttal to â€˜Fully-uncoupled independent control of frequency and condition of oscillation: A cautionâ€™. AEU - International Journal of Electronics and Communications, 2017, 81, 120-131.	2.9	0
154	From Editor-in-Chief's desk. IETE Journal of Education Online, 2017, 58, 49-49.	0.6	0
155	Design of Filters Using CFOAs. Analog Circuits and Signal Processing Series, 2013, , 81-130.	0.3	0
156	Simulation of Inductors and Other Types of Impedances Using CFOAs. Analog Circuits and Signal Processing Series, 2013, , 49-80.	0.3	0
157	Basic Analog Circuit Building Blocks Using CCs and Application of CCs in Impedance Synthesis. , 2015, , 85-138.		0
158	Hardware Implementations of CCs Using Off-the-Shelf ICs. , 2015, , 17-31.		0
159	The Evolution and the History of Current Conveyors. , 2015, , 3-16.		0
160	Other Building Blocks Having MTC or CC at Front-end and Their Applications. , 2015, , 349-367.		0
161	Single-CFOA-Single-External-Capacitor-based Partially-Active-R SRCOs: The Fourth Missing Circuit. Journal of Circuits, Systems and Computers, 0, , .	1.5	0