

# Giuseppe Ferri

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6252906/giuseppe-ferri-publications-by-citations.pdf>  
**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

211 papers	2,555 citations	28 h-index	40 g-index
236 ext. papers	3,130 ext. citations	2.8 avg, IF	5.21 L-index

#	Paper	IF	Citations
211	An electronic nose for food analysis. <i>Sensors and Actuators B: Chemical</i> , <b>1997</b> , 44, 521-526	8.5	125
210	The application of metalloporphyrins as coating material for quartz microbalance-based chemical sensors. <i>Analytica Chimica Acta</i> , <b>1996</b> , 325, 53-64	6.6	124
209	Electronic interfaces. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 121, 295-329	8.5	80
208	Recognition of fish storage time by a metalloporphyrins-coated QMB sensor array. <i>Measurement Science and Technology</i> , <b>1996</b> , 7, 1103-1114	2	62
207	Low-voltage low-power integrated analog lock-in amplifier for gas sensor applications. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 144, 400-406	8.5	61
206	Analog Circuits and Systems for Voltage-Mode and Current-Mode Sensor Interfacing Applications <b>2011</b> ,		54
205	CCII-based floating inductance simulator with compensated series resistance. <i>Electronics Letters</i> , <b>2003</b> , 39, 1560	1.1	50
204	. <i>IEEE Sensors Journal</i> , <b>2009</b> , 9, 2035-2041	4	44
203	A single-chip integrated interfacing circuit for wide-range resistive gas sensor arrays. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 143, 218-225	8.5	41
202	. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 1377-1383	4	40
201	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2008</b> , 57, 1596-1604	5.2	40
200	A low-voltage integrated CMOS analog lock-in amplifier prototype for LAPS applications. <i>Sensors and Actuators A: Physical</i> , <b>2001</b> , 92, 263-272	3.9	39
199	The VCG-CCII: a novel building block and its application to capacitance multiplication. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2009</b> , 58, 55-59	1.2	38
198	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2010</b> , 59, 1276-1283	5.2	36
197	The influence of water vapour on carbon monoxide sensitivity of $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> microporous ceramic sensors. <i>Sensors and Actuators B: Chemical</i> , <b>1994</b> , 19, 437-442	8.5	36
196	Microstructure and electrical properties of an $\alpha$ -hematite ceramic humidity sensor. <i>Sensors and Actuators B: Chemical</i> , <b>1992</b> , 7, 464-469	8.5	35
195	High performance voltage output filter realizations using second generation voltage conveyor. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2018</b> , 28, e21534	1.5	35

194	A CCII-BASED HIGH IMPEDANCE INPUT STAGE FOR BIOMEDICAL APPLICATIONS. <i>Journal of Circuits, Systems and Computers</i> , <b>2011</b> , 20, 1441-1447	0.9	34
193	A novel low-voltage low-power fully differential voltage and current gained CCII for floating impedance simulations. <i>Microelectronics Journal</i> , <b>2009</b> , 40, 20-25	1.8	34
192	A novel current-mode very low power analog CMOS four quadrant multiplier		34
191	A single current conveyor-based low voltage low power bootstrap circuit for ElectroCardioGraphy and ElectroEncephaloGraphy acquisition systems. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2014</b> , 79, 171-175	1.2	32
190	Uncalibrated Analog Bridge-Based Interface for Wide-Range Resistive Sensor Estimation. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 1413-1414	4	32
189	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2018</b> , 67, 885-893	5.2	31
188	A portable integrated wide-range gas sensing system with smart A/D front-end. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 130, 164-174	8.5	31
187	. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 1664-1672	4	30
186	Fully differential DDA-based fifth and seventh order Bessel low pass filters and buffers for DCR radio systems. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2013</b> , 75, 305-310	1.2	30
185	High-valued passive element simulation using low-voltage low-power current conveyors for fully integrated applications. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , <b>2001</b> , 48, 405-409		30
184	An Overview on the Second Generation Voltage Conveyor: Features, Design and Applications. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2019</b> , 66, 547-551	3.5	30
183	An integrated improved CCII topology for resistive sensor application. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2006</b> , 48, 247-250	1.2	28
182	Dual band harvester architecture for autonomous remote sensors. <i>Sensors and Actuators A: Physical</i> , <b>2016</b> , 247, 598-603	3.9	26
181	Novel CMOS fully integrable interface for wide-range resistive sensor arrays with parasitic capacitance estimation. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 130, 207-215	8.5	26
180	Preparation of nitrogen doped TiO <sub>2</sub> nanofibers by near field electrospinning (NFES) technique for NO <sub>2</sub> sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 179, 107-113	8.5	25
179	A rail-to-rail constant-g/sub m/ low-voltage CMOS operational transconductance amplifier. <i>IEEE Journal of Solid-State Circuits</i> , <b>1997</b> , 32, 1563-1567	5.5	25
178	Uncalibrated integrable wide-range single-supply portable interface for resistance and parasitic capacitance determination. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 132, 477-484	8.5	24
177	. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 315-323	4	22

176	Full range analog Wheatstone bridge-based automatic circuit for differential capacitance sensor evaluation. <i>International Journal of Circuit Theory and Applications</i> , <b>2017</b> , 45, 2149-2156	2	22
175	An ultralow-power switched opamp-based 10-B integrated ADC for implantable biomedical applications. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , <b>2004</b> , 51, 174-177		22
174	Microstructure and electrical properties of Si-doped $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> humidity sensor. <i>Sensors and Actuators B: Chemical</i> , <b>1993</b> , 16, 293-298	8.5	21
173	Automatic Bridge-based Interface for Differential Capacitive Full Sensing. <i>Procedia Engineering</i> , <b>2016</b> , 168, 1585-1588		21
172	Analog Wheatstone bridge-based automatic interface for grounded and floating wide-range resistive sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 187, 371-378	8.5	20
171	. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2008</b> , 55, 394-398	3.5	20
170	. <i>IEEE Transactions on Circuits and Systems</i> , <b>1991</b> , 38, 1377-1382		20
169	A second-generation voltage conveyor (VCII)Based simulated grounded inductor. <i>International Journal of Circuit Theory and Applications</i> , <b>2020</b> , 48, 1180-1193	2	19
168	One-Decade Frequency Range, In-Phase Auto-Aligned 1.8 V 2 mW Fully Analog CMOS Integrated Lock-In Amplifier for Small/Noisy Signal Detection. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 5690-5701	4	19
167	Active capacitance multipliers using current conveyors		19
166	A New Low-Voltage Low-Power Dual-Mode VCII-Based SIMO Universal Filter. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 765	2.6	18
165	An IC architecture for RF Energy Harvesting systems. <i>Journal of Communications Software and Systems</i> , <b>2017</b> , 13, 96	0.8	18
164	Noise Determination in Differential Pair-Based Second Generation Current Conveyors. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2004</b> , 41, 35-46	1.2	18
163	A CMOS integrated low-voltage low-power time-controlled interface for chemical resistive sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 179, 313-318	8.5	17
162	A New High Drive Class-AB FVF-Based Second Generation Voltage Conveyor. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2020</b> , 67, 405-409	3.5	17
161	A CMOS full-range linear integrated interface for differential capacitive sensor readout. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 281, 130-140	3.9	17
160	An Electronic System for the Contactless Reading of ECG Signals. <i>Sensors</i> , <b>2017</b> , 17,	3.8	16
159	$\text{WO}_{3-x}$ Hydrogen Resistive Gas Sensor and Its Wide-Range Current-Mode Electronic Read-Out Circuit. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 2792-2798	4	16

158	Uncalibrated operational amplifier-based sensor interface for capacitive/resistive sensor applications. <i>IET Circuits, Devices and Systems</i> , <b>2015</b> , 9, 249-255	1.1	16
157	A novel 6-decades fully-analog uncalibrated Wheatstone bridge-based resistive sensor interface. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 189, 130-140	8.5	16
156	Structural Health Monitoring: An IoT Sensor System for Structural Damage Indicator Evaluation. <i>Sensors</i> , <b>2020</b> , 20,	3.8	16
155	Low Voltage Integrated Astable Multivibrator Based on a Single CCII <b>2007</b> ,		15
154	Energy harvester for remote sensors systems <b>2016</b> ,		15
153	A rail-to-rail constant-gm CCII for Instrumentation Amplifier applications. <i>AEU - International Journal of Electronics and Communications</i> , <b>2018</b> , 91, 103-109	2.8	14
152	A VCII-Based Stray Insensitive Analog Interface for Differential Capacitance Sensors. <i>Sensors</i> , <b>2019</b> , 19,	3.8	14
151	A novel low voltage low power oscillator as a capacitive sensor interface for portable applications. <i>Sensors and Actuators A: Physical</i> , <b>1999</b> , 76, 437-441	3.9	14
150	An Autonomous Low-Power LoRa-Based Flood-Monitoring System. <i>Journal of Low Power Electronics and Applications</i> , <b>2020</b> , 10, 15	1.7	13
149	A Novel Analog Autocalibrating Phase-Voltage Converter for Signal Phase-Shifting Detection. <i>IEEE Sensors Journal</i> , <b>2011</b> , 11, 259-266	4	13
148	Vibration Damping Using CCII-Based Inductance Simulators. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2008</b> , 57, 907-914	5.2	13
147	A 1.5-V current-mode capacitance multiplier		13
146	A Low Cost Fully Integrable in a Standard CMOS Technology Portable System for the Assessment of Wind Conditions. <i>Procedia Engineering</i> , <b>2016</b> , 168, 1024-1027		13
145	Analysis and design of a new COA-based current-mode instrumentation amplifier with robust performance against mismatches. <i>AEU - International Journal of Electronics and Communications</i> , <b>2018</b> , 89, 105-109	2.8	12
144	Traditional Op-Amp and new VCII: A comparison on analog circuits applications. <i>AEU - International Journal of Electronics and Communications</i> , <b>2019</b> , 110, 152845	2.8	12
143	A New Extremely Low Power Temperature Insensitive Electronically Tunable VCII-Based Grounded Capacitance Multiplier. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 68, 72-76	3.5	12
142	A low-cost energy-harvesting sensory headwear useful for tetraplegic people to drive home automation. <i>AEU - International Journal of Electronics and Communications</i> , <b>2019</b> , 107, 9-14	2.8	11
141	Remote sensor networks with efficient energy harvesting architecture <b>2016</b> ,		11

140	A CCI-based non-inverting Schmitt trigger and its application as astable multivibrator for capacitive sensor interfacing. <i>International Journal of Circuit Theory and Applications</i> , <b>2017</b> , 45, 1060-1076	2	11
139	An Integrated Analog Lock-In Amplifier for Low-Voltage Low-Frequency Sensor Interface <b>2007</b> ,		11
138	NIC-based capacitance multipliers for low-frequency integrated active filter applications <b>2007</b> ,		11
137	A new approach for closed-form transient analysis of multiconductor transmission lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2004</b> , 46, 529-543	2	11
136	A new versatile full wave rectifier using voltage conveyors. <i>AEU - International Journal of Electronics and Communications</i> , <b>2020</b> , 122, 153267	2.8	11
135	. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 2861-2869	4	10
134	Reliable and Inexpensive Solar Irradiance Measurement System Design. <i>Procedia Engineering</i> , <b>2016</b> , 168, 1767-1770		10
133	Uncalibrated automatic bridge-based CMOS integrated interfaces for wide-range resistive sensors portable applications. <i>Microelectronics Journal</i> , <b>2014</b> , 45, 589-596	1.8	10
132	Current conveyor-based differential capacitance analog interface for displacement sensing application. <i>AEU - International Journal of Electronics and Communications</i> , <b>2017</b> , 81, 83-91	2.8	10
131	Low voltage low power CMOS front-ends for capacitive sensors		10
130	Electronic System for Structural and Environmental Building Monitoring. <i>Lecture Notes in Electrical Engineering</i> , <b>2019</b> , 481-488	0.2	9
129	A standard CMOS bridge-based analog interface for differential capacitive sensors <b>2017</b> ,		9
128	A CCI-based wide frequency range square waveform generator. <i>International Journal of Circuit Theory and Applications</i> , <b>2011</b> , 41, n/a-n/a	2	9
127	Compact transmission line representation. <i>IET Science, Measurement and Technology</i> , <b>2004</b> , 151, 211-217		9
126	A low-voltage CMOS 1-Hz low-pass filter		9
125	Niobium-doped $\text{Ba-Fe}_2\text{O}_3$ semiconductor ceramic sensors for the measurement of nitric oxide gases. <i>Sensors and Actuators B: Chemical</i> , <b>1995</b> , 25, 673-677	8.5	9
124	Rectifiers Design and Optimization for a Dual-Channel RF Energy Harvester. <i>Journal of Low Power Electronics and Applications</i> , <b>2020</b> , 10, 11	1.7	8
123	A low-voltage low-power instrumentation amplifier based on supply current sensing technique. <i>AEU - International Journal of Electronics and Communications</i> , <b>2018</b> , 91, 125-131	2.8	8

122	A new single-chip analog lock-in amplifier with automatic phase and frequency tuning for physical/chemical noisy phenomena detection <b>2013</b> ,		8
121	Analog automatic lock-in amplifier for very low gas concentration detection. <i>Procedia Engineering</i> , <b>2010</b> , 5, 200-203		8
120	A rail-to-rail DC-enhanced adaptive biased fully differential OTA <b>2007</b> ,		8
119	Integrated CMOS interfaces for wide-range resistive gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 118, 269-275	8.5	8
118	CMOS and bipolar novel low-power adaptive biasing topologies. <i>Microelectronics Journal</i> , <b>1999</b> , 30, 223-227		8
117	New mixed-mode second-generation voltage conveyor based first-order all-pass filter. <i>IET Circuits, Devices and Systems</i> , <b>2020</b> , 14, 901-907	1.1	8
116	Investigating a single sensor ability in the characterisation of drinkable water: a pilot study. <i>Water and Environment Journal</i> , <b>2016</b> , 30, 253-260	1.7	8
115	The AB-CCII, a novel adaptive biasing LV-LP current conveyor architecture. <i>AEU - International Journal of Electronics and Communications</i> , <b>2017</b> , 79, 301-306	2.8	7
114	A Fully Analog High Performances Automatic System for Phase Measurement of Electrical and Optical Signals. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2015</b> , 64, 1043-1054	5.2	7
113	<b>2011</b> ,		7
112	Low-voltage rail-to-rail switched buffer topologies. <i>International Journal of Circuit Theory and Applications</i> , <b>2001</b> , 29, 413-422	2	7
111	A New Rail-to-Rail Second Generation Voltage Conveyor. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 1292	2.6	7
110	A standard CMOS technology fully-analog differential capacitance sensor front-end <b>2015</b> ,		6
109	Full-Analog Parasitic Capacitance Compensation for AC-Excited Differential Sensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 5890-5899	5.2	6
108	Electrical self-modulation of optical sensors for light power measurement in chemical applications by phase detection technique. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 193, 375-383	8.5	6
107	High sensitivity, high resolution, uncalibrated phase read-out circuit for optoelectronic detection of chemical substances. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 179, 328-335	8.5	6
106	A high precision temperature control system for CMOS integrated wide range resistive gas sensors. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2006</b> , 47, 293-301	1.2	6
105	A Low Cost Flexible Power Line Communication System. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 413-420	0.2	6

104	The DFF and DFFz Triangles and Their Mathematical Properties <b>1993</b> , 199-206		6
103	Development and Test of a Portable ECG Device with Dry Capacitive Electrodes and Driven Right Leg Circuit. <i>Sensors</i> , <b>2021</b> , 21,	3.8	6
102	CCII-based interface for capacitive/resistive sensors <b>2011</b> ,		5
101	A complementary metal oxide semiconductor integrable conditioning circuit for resistive chemical sensor management. <i>Measurement Science and Technology</i> , <b>2011</b> , 22, 124001	2	5
100	A novel general purpose current mode oscillating circuit for the read-out of capacitive sensors <b>2009</b> ,		5
99	A novel CMOS temperature control system for resistive gas sensor arrays		5
98	Low-Power Adaptive Biased Integrated Amplifiers. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2002</b> , 33, 249-262	1.2	5
97	Analog current-mode interfaces for differential capacitance sensing <b>2016</b> ,		5
96	A new VCII based grounded positive/negative capacitance multiplier. <i>AEU - International Journal of Electronics and Communications</i> , <b>2021</b> , 137, 153793	2.8	5
95	Design and Development of an Electronic Interface for Gas Detection and Exhaled Breath Analysis in Liquids. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 31-36	4	4
94	A Gas Sensor Device for Oxygen and Carbon Dioxide Detection. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 447	0.3	4
93	A Novel Uncalibrated Read-Out Circuit for Floating Capacitive and Grounded/Floating Resistive Sensors Measurement. <i>Procedia Engineering</i> , <b>2012</b> , 47, 253-256		4
92	A novel LV LP CMOS internal topology of CCII+ and its application in current-mode integrated circuits <b>2009</b> ,		4
91	A fully-differential Symmetrical OTA-based rail-to-rail Switched Buffer <b>2007</b> ,		4
90	A New CMOS Integrable Oscillating Circuit for High-Value Wide-Range Resistive Sensors <b>2007</b> ,		4
89	A current-mode 1kHz/10kHz low-voltage integrated analogue PLL for lock-in portable applications. <i>International Journal of Circuit Theory and Applications</i> , <b>2003</b> , 31, 139-155	2	4
88	A Novel Dual-Output CCII-Based Single-Ended to Differential Converter. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2005</b> , 43, 87-90	1.2	4
87	Rail-to-rail adaptive biased low-power Op-Amp. <i>Microelectronics Journal</i> , <b>2001</b> , 32, 265-272	1.8	4

86	A low-voltage, low-power CMOS phase shifter. <i>International Journal of Circuit Theory and Applications</i> , <b>2000</b> , 28, 187-191	2	4
85	Low-power CMOS OTA input stages and voltage buffers based on adaptive biasing topology. <i>Microelectronics Journal</i> , <b>2000</b> , 31, 153-159	1.8	4
84	A New VCII Application: Sinusoidal Oscillators. <i>Journal of Low Power Electronics and Applications</i> , <b>2021</b> , 11, 30	1.7	4
83	Power-efficient dynamic-biased CCII <b>2017</b> ,		3
82	Linear Integrated Interface for Automatic Differential Capacitive Sensing. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 592	0.3	3
81	On The Sensitivity Characteristics in Novel Automatic Wheatstone Bridge-Based Interfaces. <i>Procedia Engineering</i> , <b>2012</b> , 47, 261-264		3
80	Resistive Sensor Interfacing. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2013</b> , 71-102	0.3	3
79	<b>2009</b> ,		3
78	CMOS PULSE GENERATOR FOR BPSK, OOK, PAM, AND PPM MODULATIONS. <i>Journal of Circuits, Systems and Computers</i> , <b>2009</b> , 18, 487-495	0.9	3
77	Bipolar rail-to-rail constant-gm input stage for low voltage applications. <i>Electronics Letters</i> , <b>1996</b> , 32, 1467	1.1	3
76	CCII-based high-valued inductance simulators with minimum number of active elements <b>2007</b> ,		3
75	A temperature control system for integrated resistive gas sensor arrays <b>2005</b> ,		3
74	Sensor Systems for Breathprinting: A Review of the Current Technologies for Exhaled Breath Analysis Based on a Sensor Array With the Aim of Integrating Them in a Standard and Shared Procedure <b>2019</b> , 49-79		3
73	A New Simulated Inductor with Reduced Series Resistor Using a Single VCII <sub>B</sub> . <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 1693	2.6	3
72	A simplified architecture for differential capacitance sensors <b>2015</b> ,		2
71	A new 0.35 $\mu$ m CMOS electronic interface for wide range floating capacitive and grounded/floating resistive sensor applications. <i>Microelectronics Journal</i> , <b>2014</b> , 45, 910-920	1.8	2
70	A Spherical Directional Anemometer Sensor System. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 388	0.3	2
69	Automatic Wireless Monitoring System for Real-Time Rock Fall Events. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 569	0.3	2

68	Digital Multi-Probe Temperature Monitoring System for Long-Term on Field Measurements. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 596	0.3	2
67	. <i>IEEE Antennas and Propagation Magazine</i> , <b>2014</b> , 56, 275-287	1.7	2
66	First and higher order models of the transmission line by the use of a ladder network and difference equations. <i>Journal of Information and Optimization Sciences</i> , <b>1997</b> , 18, 447-452	1.1	2
65	A comparison between an electronic nose and human olfaction in a selected case study		2
64	<b>2008</b> ,		2
63	An Uncalibrated Wide-Range Single-Supply Integrable Front-End for Resistance and Capacitance Estimation <b>2007</b> ,		2
62	High-Accuracy, High-Precision DEM-CCII Amplifiers <b>2007</b> ,		2
61	LADDER-NETWORK-BASED MODEL FOR INTERCONNECTS AND TRANSMISSION LINES TIME DELAY AND CUTOFF FREQUENCY DETERMINATION. <i>Journal of Circuits, Systems and Computers</i> , <b>2007</b> , 16, 489-505	0.9	2
60	A low-voltage low-power current-mode gas sensor integrated interface		2
59	A systolic architecture for high-performance scaled residue to binary conversion. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , <b>2000</b> , 47, 1523-1526		2
58	Connectivity of pore networks in chemically sensitive materials. <i>Sensors and Actuators B: Chemical</i> , <b>1995</b> , 25, 865-870	8.5	2
57	Hydrogen chloride detection by LiTaO <sub>3</sub> . <i>Sensors and Actuators B: Chemical</i> , <b>1992</b> , 7, 677-681	8.5	2
56	Ladder network characterization and Fibonacci numbers. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , <b>1990</b> , 12, 1165-1173		2
55	On the use of field programmable gate arrays in light detection and ranging systems.. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 121501	1.7	2
54	Noise analysis and optimization of VCII-based SiPM interface circuit. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2020</b> , 109, 1	1.2	2
53	Electronically Tunable First Order AP/LP and LP/HP Filter Topologies Using Electronically Controllable Second Generation Voltage Conveyor (CVCII). <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 822	2.6	2
52	Current-Mode Instrumentation Amplifiers. <i>Analog Circuits and Signal Processing Series</i> , <b>2019</b> ,	0.2	2
51	CCII-Based Voltage Amplifier Optimization for Reduced Relative Gain Error. <i>Circuits, Systems, and Signal Processing</i> , <b>2018</b> , 37, 1315-1326	2.2	2

50	Towards Realization of a Low-Voltage Class-AB VCII with High Current Drive Capability. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 2303	2.6	2
49	A New Realization of Electronically Tunable Multiple-Input Single-Voltage Output Second-Order LP/BP Filter Using VCII. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 646	2.6	2
48	Fully analog automatic stray compensation for bridge-based differential capacitive sensor interfaces <b>2018</b> ,		1
47	Resonant Directly Coupled Inductors?Capacitors Ladder Network Shows a New, Interesting Property Useful for Application in the Sensor Field, Down to Micrometric Dimensions. <i>Micromachines</i> , <b>2018</b> , 9,	3.3	1
46	A CMOS Integrable DDCCII-Based Readout System For Portable Potentiometric Sensors Array <b>2009</b> ,		1
45	The exact simulation of an electric line by ladder networks. <i>Journal of Information and Optimization Sciences</i> , <b>1998</b> , 19, 247-256	1.1	1
44	NEW LOW-VOLTAGE LOW-POWER CURRENT-MODE RESISTIVE SENSOR INTERFACE WITH R/T CONVERSION AND DC EXCITATION VOLTAGE <b>2008</b> ,		1
43	Ladder-network-based model for delay determination in coupled interconnects. <i>IET Science, Measurement and Technology</i> , <b>2006</b> , 153, 64-72		1
42	CMOS Power-Efficient Buffers and Amplifiers. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2003</b> , 36, 79-90	1.2	1
41	Noise considerations in low voltage CMOS integrated temperature sensors. <i>Sensors and Actuators A: Physical</i> , <b>2000</b> , 85, 232-238	3.9	1
40	A Very Low Voltage Bipolar Op-Amp for Sensor Applications. <i>Analog Integrated Circuits and Signal Processing</i> , <b>1999</b> , 20, 11-23	1.2	1
39	A novel approach for transmission line modelling by ladder networks. <i>Journal of Information and Optimization Sciences</i> , <b>1999</b> , 20, 75-83	1.1	1
38	Low concentration ammonia detection by LiTaO <sub>3</sub> . <i>Sensors and Actuators B: Chemical</i> , <b>1993</b> , 13, 148-150	8.5	1
37	New Resistor-Less Electronically Controllable $\pi$ C Simulator Employing VCII, DVCC, and a Grounded Capacitor. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 286	2.6	1
36	Realization of an Electronically Tunable Resistor-Less Floating Inductance Simulator Using VCII. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 312	2.6	1
35	Low power class-AB VCII with extended dynamic range. <i>AEU - International Journal of Electronics and Communications</i> , <b>2022</b> , 146, 154120	2.8	1
34	Voltage-Mode Analog Interfaces for Differential Capacitance Position Transducers. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 388-397	0.2	1
33	CCII-Based Linear Ratiometric Capacitive Sensing by Analog Read-Out Circuits. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 398-405	0.2	1

32	Integrable Autonomous Devices for WSNs. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 406-412	0.2	1
31	Physical and Chemical Sensors <b>2011</b> , 1-35		1
30	The Current-Mode Approach in Sensor Interfaces Design <b>2011</b> , 155-179		1
29	Resistive, Capacitive and Temperature Sensor Interfacing Overview <b>2011</b> , 37-74		1
28	Integrable Sensor System for Live Monitoring of Loudspeaker Performances. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 3-7	0.2	
27	CCII-based inductance simulators for mechanical oscillation control <b>2005</b> , 5837, 983		
26	Interconnection and transmission line modelling by half-T RC ladder networks. <i>Journal of Information and Optimization Sciences</i> , <b>2000</b> , 21, 149-157	1.1	
25	The determination of loaded ladder network input equivalent noise. <i>Journal of Information and Optimization Sciences</i> , <b>1998</b> , 19, 185-192	1.1	
24	Spherical Anemometer for Novel Portable and Fixed-Point Wind Measurement Devices. <i>Lecture Notes in Electrical Engineering</i> , <b>2020</b> , 137-141	0.2	
23	Automatic Differential Capacitive Sensing by Means of Linear Interface. <i>Lecture Notes in Electrical Engineering</i> , <b>2020</b> , 131-135	0.2	
22	Piezoelectric Glove Design and Test for Future Wearable Devices. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1603, 012013	0.3	
21	Non-Inverting CCII-based Astable Multivibrator and Its Application as Uncalibrated Wide-Range Capacitive Sensor Interface. <i>Lecture Notes in Electrical Engineering</i> , <b>2015</b> , 291-295	0.2	
20	An Electrode Impedance Balanced Interface for Biomedical Application. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 289-294	0.2	
19	A Novel Calibration-Less CCII-Based Resistance-to-Time Front-End for Gas Sensor Interfacing. <i>Lecture Notes in Electrical Engineering</i> , <b>2010</b> , 279-284	0.2	
18	A New Fast-Readout Front-End for High Resistive Chemical Sensor Applications. <i>Lecture Notes in Electrical Engineering</i> , <b>2010</b> , 273-278	0.2	
17	A Differential Difference Current-Conveyor (DDCCII) Based Front-End for Integrable and Portable Sensor Applications. <i>Lecture Notes in Electrical Engineering</i> , <b>2010</b> , 267-271	0.2	
16	The Voltage-Mode Approach in Sensor Interfaces Design <b>2011</b> , 75-153		
15	Detection of Small and Noisy Signals in Sensor Interfacing: The Analog Lock-in Amplifier <b>2011</b> , 181-204		

14	A CCII-Based Oscillating Circuit as Resistive/Capacitive Humidity Sensor Interface. <i>Lecture Notes in Electrical Engineering</i> , <b>2012</b> , 293-299	0.2
13	An Analog Automatic Lock-In Amplifier for the Accurate Detection of Very Low Gas Concentrations. <i>Lecture Notes in Electrical Engineering</i> , <b>2012</b> , 285-291	0.2
12	Integrable Electronic Interface for Chemical Sensor Management. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 475-479	0.2
11	Automatic Analog Wheatstone Bridge for Wide-Range Resistive Sensor Interfacing Applications. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 535-539	0.2
10	A Compact Architecture for Heartbeat Monitoring. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 301-305	0.2
9	A New CMOS-Integrated Analog Lock-In Amplifier for Automatic Measurement of Very Small Signals. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 371-375	0.2
8	A Modified De Sauty Autobalancing Bridge-Based Interface for Wide-Range Capacitive Sensor Applications. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 365-369	0.2
7	Current-Mode Wheatstone Bridge. <i>Analog Circuits and Signal Processing Series</i> , <b>2019</b> , 29-57	0.2
6	CMIA for Biomedical and Low-Voltage Low-Power Applications. <i>Analog Circuits and Signal Processing Series</i> , <b>2019</b> , 137-155	0.2
5	CMIA for Sensor Applications. <i>Analog Circuits and Signal Processing Series</i> , <b>2019</b> , 157-169	0.2
4	A New Fully Closed-Loop, High-Precision, Class-AB CCII for Differential Capacitive Sensor Interfaces. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 903	2.6
3	A Ladder Network Theoretical Approach for the Automatic Monitoring of Distributed Sensors. <i>Lecture Notes in Electrical Engineering</i> , <b>2023</b> , 333-339	0.2
2	Time Continuous VCII-Based Fully Analog Interface for Differential Capacitive Sensors. <i>Lecture Notes in Electrical Engineering</i> , <b>2023</b> , 369-374	0.2
1	Sensors and Interfaces for Structural Health Monitoring. <i>Lecture Notes in Electrical Engineering</i> , <b>2023</b> , 295-300	0.2