

Gianluca Barile

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

790
citations

471061

17
h-index

580395

25
g-index

64
all docs

64
docs citations

64
times ranked

332
citing authors

#	ARTICLE	IF	CITATIONS
1	High performance voltage output filter realizations using second generation voltage conveyor. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21534.	0.8	55
2	An Overview on the Second Generation Voltage Conveyor: Features, Design and Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 547-551.	2.2	55
3	Autobalancing Analog Front End for Full-Range Differential Capacitive Sensing. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 885-893.	2.4	45
4	Real-Time Autonomous System for Structural and Environmental Monitoring of Dynamic Events. Electronics (Switzerland), 2018, 7, 420.	1.8	32
5	A New Low-Voltage Low-Power Dual-Mode VCII-Based SIMO Universal Filter. Electronics (Switzerland), 2019, 8, 765.	1.8	31
6	An Autonomous Low-Power LoRa-Based Flood-Monitoring System. Journal of Low Power Electronics and Applications, 2020, 10, 15.	1.3	31
7	Full range analog Wheatstone bridge-based automatic circuit for differential capacitance sensor evaluation. International Journal of Circuit Theory and Applications, 2017, 45, 2149-2156.	1.3	30
8	Automatic Bridge-based Interface for Differential Capacitive Full Sensing. Procedia Engineering, 2016, 168, 1585-1588.	1.2	27
9	A New High Drive Class-AB FVF-Based Second Generation Voltage Conveyor. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 405-409.	2.2	27
10	A New Extremely Low Power Temperature Insensitive Electronically Tunable VCII-Based Grounded Capacitance Multiplier. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 72-76.	2.2	27
11	A CMOS full-range linear integrated interface for differential capacitive sensor readout. Sensors and Actuators A: Physical, 2018, 281, 130-140.	2.0	26
12	Traditional Op-Amp and new VCII: A comparison on analog circuits applications. AEU - International Journal of Electronics and Communications, 2019, 110, 152845.	1.7	25
13	A new versatile full wave rectifier using voltage conveyors. AEU - International Journal of Electronics and Communications, 2020, 122, 153267.	1.7	25
14	A rail-to-rail constant-g m CCII for Instrumentation Amplifier applications. AEU - International Journal of Electronics and Communications, 2018, 91, 103-109.	1.7	24
15	A VCII-Based Stray Insensitive Analog Interface for Differential Capacitance Sensors. Sensors, 2019, 19, 3545.	2.1	24
16	A new VCII based grounded positive/negative capacitance multiplier. AEU - International Journal of Electronics and Communications, 2021, 137, 153793.	1.7	24
17	A Novel Electronic Interface for Micromachined Si-Based Photomultipliers. Micromachines, 2018, 9, 507.	1.4	22
18	Electronically Tunable First Order AP/LP and LP/HP Filter Topologies Using Electronically Controllable Second Generation Voltage Conveyor (CVCII). Electronics (Switzerland), 2021, 10, 822.	1.8	19

#	ARTICLE	IF	CITATIONS
19	A New Simulated Inductor with Reduced Series Resistor Using a Single VCII $\hat{\pm}$. Electronics (Switzerland), 2021, 10, 1693.	1.8	18
20	A standard CMOS bridge-based analog interface for differential capacitive sensors. , 2017, , .		16
21	Development and Test of a Portable ECG Device with Dry Capacitive Electrodes and Driven Right Leg Circuit. Sensors, 2021, 21, 2777.	2.1	16
22	New Resistor-Less Electronically Controllable $\hat{\pm}$ C Simulator Employing VCII, DVCC, and a Grounded Capacitor. Electronics (Switzerland), 2022, 11, 286.	1.8	16
23	New Current Mode Wheatstone Bridge Topologies with Intrinsic Linearity. , 2018, , .		15
24	SPOF $\hat{\pm}$ "Slave Powerlink on FPGA for Smart Sensors and Actuators Interfacing for Industry 4.0 Applications. Energies, 2019, 12, 1633.	1.6	13
25	A New VCII Application: Sinusoidal Oscillators. Journal of Low Power Electronics and Applications, 2021, 11, 30.	1.3	13
26	A New Rail-to-Rail Second Generation Voltage Conveyor. Electronics (Switzerland), 2019, 8, 1292.	1.8	10
27	Full-Analog Parasitic Capacitance Compensation for AC-Excited Differential Sensors. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5890-5899.	2.4	10
28	A New Realization of Electronically Tunable Multiple-Input Single-Voltage Output Second-Order LP/BP Filter Using VCII. Electronics (Switzerland), 2022, 11, 646.	1.8	10
29	Print On Air: FDM 3D Printing Without Supports. , 2019, , .		9
30	Electronic Interface for Lidar System and Smart Cities Applications. Journal of Communications Software and Systems, 2019, 15, .	0.6	9
31	A Novel General Purpose Combined DFVF/VCII Based Biomedical Amplifier. Electronics (Switzerland), 2020, 9, 331.	1.8	7
32	Realization of an Electronically Tunable Resistor-Less Floating Inductance Simulator Using VCII. Electronics (Switzerland), 2022, 11, 312.	1.8	7
33	FDM 3D Printing of high performance composite materials. , 2019, , .		6
34	Noise analysis and optimization of VCII-based SiPM interface circuit. Analog Integrated Circuits and Signal Processing, 2021, 109, 1-9.	0.9	6
35	A Second-Generation Voltage-Conveyor-Based Interface for Ultrasonic PVDF Sensors. Micromachines, 2021, 12, 99.	1.4	6
36	Towards Realization of a Low-Voltage Class-AB VCII with High Current Drive Capability. Electronics (Switzerland), 2021, 10, 2303.	1.8	6

#	ARTICLE	IF	CITATIONS
37	Automatic Wireless Monitoring System for Real-Time Rock Fall Events. Proceedings (mdpi), 2017, 1, .	0.2	5
38	A Differential Capacitive Multi-Material 3D Printed Sensor for Portable Anemometric Applications. , 2019, , .		5
39	Low power class-AB VCII with extended dynamic range. AEU - International Journal of Electronics and Communications, 2022, 146, 154120.	1.7	5
40	Class-AB current conveyors based on the FVF. , 2017, , .		4
41	Silicon Photomultiplier Sensor Interface Based on a Discrete Second Generation Voltage Conveyor. Sensors, 2020, 20, 2042.	2.1	4
42	Power-efficient dynamic-biased CCII. , 2017, , .		3
43	A Spherical Directional Anemometer Sensor System. Proceedings (mdpi), 2017, 1, 388.	0.2	3
44	Linear Integrated Interface for Automatic Differential Capacitive Sensing. Proceedings (mdpi), 2017, 1, 592.	0.2	3
45	Fused-Deposition-Material 3D-Printing Procedure and Algorithm Avoiding Use of Any Supports. Sensors, 2020, 20, 470.	2.1	3
46	Sensor monitoring system for PV plant with active load. , 2019, , .		2
47	Wired Sensors System for Monitoring of Landslide Events. , 2019, , .		2
48	A Review on VCII Applications in Signal Conditioning for Sensors and Bioelectrical Signals: New Opportunities. Sensors, 2022, 22, 3578.	2.1	2
49	Wireless Smart Parking Sensor System for Vehicles Detection. Lecture Notes in Electrical Engineering, 2018, , 197-200.	0.3	1
50	Fully analog automatic stray compensation for bridge-based differential capacitive sensor interfaces. , 2018, , .		1
51	Simple and power efficient interface for AC-excited differential sensors. , 2020, , .		1
52	Low-power class-AB 4 th -order low-pass filter based on current conveyors with dynamic mismatch compensation of biasing errors. International Journal of Circuit Theory and Applications, 2020, 48, 472-484.	1.3	1
53	Voltage-Mode Analog Interfaces for Differential Capacitance Position Transducers. Lecture Notes in Electrical Engineering, 2018, , 388-397.	0.3	1
54	CCII-Based Linear Ratiometric Capacitive Sensing by Analog Read-Out Circuits. Lecture Notes in Electrical Engineering, 2018, , 398-405.	0.3	1

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55	A New Fully Closed-Loop, High-Precision, Class-AB CCII for Differential Capacitive Sensor Interfaces. Electronics (Switzerland), 2022, 11, 903.	1.8	1
56	Integrable Sensor System for Live Monitoring of Loudspeaker Performances. Lecture Notes in Electrical Engineering, 2018, , 3-7.	0.3	0
57	SiPM based Laser Imaging Detection and Ranging VCII Interface. , 2019, , .		0
58	Electronics for Sensors. Sensors, 2021, 21, 2226.	2.1	0
59	VCII-Based Sensor Interface for Silicon Photomultiplier. Lecture Notes in Electrical Engineering, 2020, , 15-19.	0.3	0
60	Spherical Anemometer for Novel Portable and Fixed-Point Wind Measurement Devices. Lecture Notes in Electrical Engineering, 2020, , 137-141.	0.3	0
61	Automatic Differential Capacitive Sensing by Means of Linear Interface. Lecture Notes in Electrical Engineering, 2020, , 131-135.	0.3	0
62	Structural Health Monitoring: a system for the correct synchronization of the sensors. , 2021, , .		0