

Alfiero Leoni

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

530
citations

623734

14
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752698

20
g-index

56
all docs

56
docs citations

56
times ranked

335
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual band harvester architecture for autonomous remote sensors. Sensors and Actuators A: Physical, 2016, 247, 598-603.	4.1	40
2	Real-Time Autonomous System for Structural and Environmental Monitoring of Dynamic Events. Electronics (Switzerland), 2018, 7, 420.	3.1	32
3	An Autonomous Low-Power LoRa-Based Flood-Monitoring System. Journal of Low Power Electronics and Applications, 2020, 10, 15.	2.0	31
4	The assessment of wind conditions by means of hot wire sensors and a modified Wheatstone bridge architecture. Sensors and Actuators A: Physical, 2017, 262, 130-139.	4.1	26
5	An IC architecture for RF Energy Harvesting systems. Journal of Communications Software and Systems, 2017, 13, 96.	0.8	23
6	A Novel Electronic Interface for Micromachined Si-Based Photomultipliers. Micromachines, 2018, 9, 507.	2.9	22
7	A Low Cost Fully Integrable in a Standard CMOS Technology Portable System for the Assessment of Wind Conditions. Procedia Engineering, 2016, 168, 1024-1027.	1.2	21
8	A low-cost portable spherical directional anemometer for fixed points measurement. Sensors and Actuators A: Physical, 2018, 280, 543-551.	4.1	20
9	Energy harvesting optimization for built-in power replacement of electronic multisensory architecture. AEU - International Journal of Electronics and Communications, 2019, 107, 170-176.	2.9	20
10	IoT-Ready Energy-Autonomous Parking Sensor Device. IEEE Internet of Things Journal, 2021, 8, 4830-4840.	8.7	20
11	A Combined 90/900 MHz IC Architecture for Smart Tag Application. Journal of Communications Software and Systems, 2018, 14, .	0.8	19
12	In vitro fatigue behavior of surface oxidized Ti35Zr10Nb biomedical alloy. Materials Science and Engineering C, 2011, 31, 1779-1783.	7.3	18
13	Energy harvester for remote sensors systems. , 2016, , .		18
14	A Multisensorial Thermal Anemometer System. Lecture Notes in Electrical Engineering, 2018, , 330-337.	0.4	18
15	Remote sensor networks with efficient energy harvesting architecture. , 2016, , .		17
16	A human body powered sensory glove system based on multisource energy harvester. , 2018, , .		16
17	A low-cost energy-harvesting sensory headwear useful for tetraplegic people to drive home automation. AEU - International Journal of Electronics and Communications, 2019, 107, 9-14.	2.9	16
18	New Current Mode Wheatstone Bridge Topologies with Intrinsic Linearity. , 2018, , .		15

#	ARTICLE	IF	CITATIONS
19	SPOFâ€™Slave Powerlink on FPGA for Smart Sensors and Actuators Interfacing for Industry 4.0 Applications. Energies, 2019, 12, 1633.	3.1	13
20	SPICE Model Identification Technique of a Cheap Thermoelectric Cell Applied to DC/DC Design with MPPT Algorithm for Low-Cost, Low-Power Energy Harvesting. Applied Sciences (Switzerland), 2019, 9, 3744.	2.5	12
21	Print On Air: FDM 3D Printing Without Supports. , 2019, , .		9
22	Electronic Interface for Lidar System and Smart Cities Applications. Journal of Communications Software and Systems, 2019, 15, .	0.8	9
23	An assessment on low-voltage low-power integrated single transistor active inductor design for RF filter applications. , 2016, , .		8
24	Automated Calibration System for RF Configurable Voltage-Controlled Filters. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1034-1038.	3.0	8
25	An approach for AI-based filter design by means of neural networks. , 2017, , .		7
26	A Novel General Purpose Combined DFVF/VCI Based Biomedical Amplifier. Electronics (Switzerland), 2020, 9, 331.	3.1	7
27	RF Active Inductors Small-Signal Design by Means of Conformal Transformations. IEEE Access, 2020, 8, 50390-50398.	4.2	6
28	A 10-17 DOF Sensory Gloves with Harvesting Capability for Smart Healthcare. Journal of Communications Software and Systems, 2019, 15, .	0.8	6
29	Automatic Wireless Monitoring System for Real-Time Rock Fall Events. Proceedings (mdpi), 2017, 1, .	0.2	5
30	RF energy harvested sensory headwear for quadriplegic people. , 2019, , .		5
31	A Differential Capacitive Multi-Material 3D Printed Sensor for Portable Anemometric Applications. , 2019, , .		5
32	A Novel Actuatingâ€™Sensing Bone Conduction-Based System for Active Hand Pose Sensing and Material Densities Evaluation Through Hand Touch. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-7.	4.7	5
33	Silicon Photomultiplier Sensor Interface Based on a Discrete Second Generation Voltage Conveyor. Sensors, 2020, 20, 2042.	3.8	4
34	A Spherical Directional Anemometer Sensor System. Proceedings (mdpi), 2017, 1, 388.	0.2	3
35	Fused-Deposition-Material 3D-Printing Procedure and Algorithm Avoiding Use of Any Supports. Sensors, 2020, 20, 470.	3.8	3
36	Sensorial Multifunctional Panels for Smart Factory Applications. Electronics (Switzerland), 2021, 10, 1495.	3.1	3

#	ARTICLE	IF	CITATIONS
37	On the use of field programmable gate arrays in light detection and ranging systems. Review of Scientific Instruments, 2021, 92, 121501.	1.3	3
38	Bandpass filter design with active inductor by means of wave digital approach. , 2017, , .		2
39	Artificial neural networks approach to active inductor-based filter design. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21568.	1.2	2
40	Active filters tuning interface. , 2018, , .		2
41	Wired Sensors System for Monitoring of Landslide Events. , 2019, , .		2
42	Sensor and Actuator Electronic System for Active Hand Pose Sensing. Lecture Notes in Electrical Engineering, 2023, , 289-294.	0.4	2
43	Wireless Smart Parking Sensor System for Vehicles Detection. Lecture Notes in Electrical Engineering, 2018, , 197-200.	0.4	1
44	A 3D Printable Apparatus for the Industrial Programming of NFC/RFID TAGs. , 2019, , .		1
45	Flexible Piezoelectric Harvester for Human Fingers: Measurements and Applications. , 2019, , .		1
46	Radio-Frequency Passive Identifier for Biomedical Applications. , 2019, , .		1
47	On the Introduction of Neural Network-based Optimization Algorithm in an Automated Calibration System. , 2019, , .		1
48	RF Energy Harvester Rectifier Block Design Optimization: a Comparison with a Commercial Device. , 2020, , .		1
49	Integrable Autonomous Devices for WSNs. Lecture Notes in Electrical Engineering, 2018, , 406-412.	0.4	1
50	Integrable Sensor System for Live Monitoring of Loudspeaker Performances. Lecture Notes in Electrical Engineering, 2018, , 3-7.	0.4	0
51	SiPM based Laser Imaging Detection and Ranging VCII Interface. , 2019, , .		0
52	Electronics for Sensors. Sensors, 2021, 21, 2226.	3.8	0
53	VCII-Based Sensor Interface for Silicon Photomultiplier. Lecture Notes in Electrical Engineering, 2020, , 15-19.	0.4	0
54	Spherical Anemometer for Novel Portable and Fixed-Point Wind Measurement Devices. Lecture Notes in Electrical Engineering, 2020, , 137-141.	0.4	0

#	ARTICLE	IF	CITATIONS
55	Calibration Strategy for Tunable Devices Based on Artificial Neural Network Modelling. , 2020, , .		0