Massimo Merenda

List of Publications by Year
in descending order

61	771	623574	580701
papers	citations	14 h-index	25 g-index

63	63	63	647
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Performance Evaluation of Silicon and GaN Switches for a Small Wireless Power Transfer System. Energies, 2022, 15, 3029.	1.6	3
2	Advanced Sensors and Systems Technologies for Indoor Positioning. Sensors, 2022, 22, 3605.	2.1	0
3	RFID-Based Indoor Positioning Using Edge Machine Learning. IEEE Journal of Radio Frequency Identification, 2022, 6, 573-582.	1.5	8
4	Edge Machine Learning Techniques Applied to RFID for Device-Free Hand Gesture Recognition. IEEE Journal of Radio Frequency Identification, 2022, 6, 564-572.	1.5	7
5	Study and Assessment of Defect and Trap Effects on the Current Capabilities of a 4H-SiC-Based Power MOSFET. Electronics (Switzerland), 2021, 10, 735.	1.8	3
6	A Technique for the Direct Measurement of the Junction Temperature in Power Light Emitting Diodes. IEEE Sensors Journal, 2021, 21, 6293-6299.	2.4	4
7	A Technique for Improving the Precision of the Direct Measurement of Junction Temperature in Power Light-Emitting Diodes. Sensors, 2021, 21, 3113.	2.1	5
8	Acoustic Simulation for Performance Evaluation of Ultrasonic Ranging Systems. Electronics (Switzerland), 2021, 10, 1298.	1.8	6
9	Ranging with Frequency Dependent Ultrasound Air Attenuation. Sensors, 2021, 21, 4963.	2.1	3
10	An Efficient Far-Field Wireless Power Transfer via Field Intensity Shaping Techniques. Electronics (Switzerland), 2021, 10, 1609.	1.8	5
11	Exploiting RFID technology for Indoor Positioning. , 2021, , .		4
12	Device-free hand gesture recognition exploiting Machine Learning applied to RFID. , 2021, , .		7
13	Ultrasonic Ranging using Frequency Selective Attenuation. , 2021, , .		0
14	Tiny Machine Learning Techniques for Driving Behavior Scoring in a Connected Car Environment. , 2021, , .		2
15	An IoT System for Social Distancing and Emergency Management in Smart Cities Using Multi-Sensor Data. Algorithms, 2020, 13, 254.	1.2	31
16	LED junction temperature prediction using machine learning techniques. , 2020, , .		5
17	Edge Machine Learning for AI-Enabled IoT Devices: A Review. Sensors, 2020, 20, 2533.	2.1	211
18	Simulating Signal Aberration and Ranging Error for Ultrasonic Indoor Positioning. Sensors, 2020, 20, 3548.	2.1	15

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19	Mobile Synchronization Recovery for Ultrasonic Indoor Positioning. Sensors, 2020, 20, 702.	2.1	28
20	Temperature Sensing Characteristics and Long Term Stability of Power LEDs Used for Voltage vs. Junction Temperature Measurements and Related Procedure. IEEE Access, 2020, 8, 43057-43066.	2.6	12
21	Augmented Information Discovery using NFC Technology within a Platform for Disaster Monitoring. , 2020, , .		0
22	Indoor Object Positioning using Smartphone and RFID or QRCode. , 2020, , .		3
23	Power LED junction temperature readout circuit based on an off-the-shelf LED driver. , 2020, , .		0
24	Field Focusing for Energy Harvesting Applications in Smart RFID Tag. , 2019, , .		0
25	Electronic sensors for intraoral force monitoring: state-of-the-art and comparison. Procedia CIRP, 2019, 79, 730-733.	1.0	3
26	Simple and Low-Cost Photovoltaic Module Emulator. Electronics (Switzerland), 2019, 8, 1445.	1.8	26
27	A Real-Time Decision Platform for the Management of Structures and Infrastructures. Electronics (Switzerland), 2019, 8, 1180.	1.8	30
28	CMOS RF Transmitters with On-Chip Antenna for Passive RFID and IoT Nodes. Electronics (Switzerland), 2019, 8, 1448.	1.8	14
29	Reconfigurable UHF RFID tag with sensing capabilities. , 2019, , .		4
30	Open-Source Hardware Platforms for Smart Converters with Cloud Connectivity. Electronics (Switzerland), 2019, 8, 367.	1.8	19
31	An Indoor Ultrasonic System for Autonomous 3-D Positioning. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2507-2518.	2.4	53
32	Ranging RFID Tags With Ultrasound. IEEE Sensors Journal, 2018, 18, 2967-2975.	2.4	38
33	Temperature Effects on the Efficiency of Dickson Charge Pumps for Radio Frequency Energy Harvesting. IEEE Access, 2018, 6, 65729-65736.	2.6	20
34	A Direct Junction Temperature Measurement Technique for Power LEDs. , 2018, , .		4
35	A Monolithic Multisensor Microchip with Complete On-Chip RF Front-End. Sensors, 2018, 18, 110.	2.1	18
36	Energy harvesting for IoT road monitoring systems. Instrumentation Mesure Metrologie, 2018, 18, 605-623.	0.2	27

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37	A Calorimetry Based System for Measuring the Power Losses of Switching Power Devices. Lecture Notes in Electrical Engineering, 2018, , 111-116.	0.3	0
38	RF-Powered HF-RFID Analog Sensors Platform. Lecture Notes in Electrical Engineering, 2017, , 85-91.	0.3	1
39	6lo-RFID: A Framework for Full Integration of Smart UHF RFID Tags into the Internet of Things. IEEE Network, 2017, 31, 66-73.	4.9	21
40	Using ANT Communications for Node Synchronization and Timing in a Wireless Ultrasonic Ranging System. , 2017, 1, 1-4.		8
41	A Microchip Integrated Sensor for the Monitoring of High Concentration Photo-voltaic Solar Modules. Procedia Engineering, 2016, 168, 1601-1604.	1.2	2
42	A PTAT-based Heat-flux Sensor for the Measurement of Power Losses through a Calorimetric Apparatus. Procedia Engineering, 2016, 168, 1617-1620.	1.2	2
43	SPICE modelling and experiments on a complete photovoltaic system including cells, storage elements, inverter and load. , 2016, , .		2
44	One-shot SPICE simulation of photovoltaic modules, storage elements, inverter and load. , 2015, , .		1
45	Enabling communication among smart tags in an UHF RFID Local Area Network. , 2015, , .		1
46	A CMOS IC for the real-time and wireless diagnostics of high concentration solar cells. , 2015, , .		0
47	Design and implementation of high resolution, high linearity temperature sensor in CMOS process. , 2015, , .		1
48	Autonomous RFID sensor platform with highly efficient energy harvesting circuit. , 2015, , .		2
49	RF-powered UHF-RFID analog sensors platform. , 2015, , .		1
50	Performance assessment of an enhanced RFID sensor tag for long-run sensing applications. , 2014, , .		13
51	Fully RF Powered UHF-RFID Sensors Platform. Procedia Engineering, 2014, 87, 1346-1349.	1.2	2
52	An autonomous and energy efficient Smart Sensor Platform. , 2014, , .		11
53	Dynamic impedance matching network for RF energy harvesting systems. , 2014, , .		18
54	SPICE modelling of a complete photovoltaic system including modules, energy storage elements and a multilevel inverter. Solar Energy, 2014, 107, 338-350.	2.9	18

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55	Battery-less smart RFID tag with sensor capabilities. , 2012, , .		14
56	CMOS wireless temperature sensor with integrated radiating element. Sensors and Actuators A: Physical, 2010, 158, 169-175.	2.0	11
57	CMOS fully integrated 2.5GHz active RFID tag with on-chip antenna. , 2010, , .		3
58	Modulation speed improvement in a Fabryâ€“Perot thermo-optical modulator through a driving signal optimization technique. Optical Engineering, 2009, 48, 074601.	0.5	4
59	A microchip integrated temperature sensor with RF communication channel and on-chip antenna. Procedia Chemistry, 2009, 1, 473-476.	0.7	2
60	13.56 MHZ SMART RFID TAG WITH ON-BOARD MICROCONTROLLER AND TEMPERATURE SENSOR. , 2008, , .		2
61	Fully-integrated wireless temperature sensor with on-chip antenna. , 2008, , .		10