Massimo Merenda

List of Publications by Year
in descending order

61 papers	**771** citations	623574 **14** h-index	580701 **25** g-index
63 all docs	**63** docs citations	**63** times ranked	**647** citing authors

#	Article	IF	Citations
1	Edge Machine Learning for AI-Enabled IoT Devices: A Review. Sensors, 2020, 20, 2533.	2.1	211
2	An Indoor Ultrasonic System for Autonomous 3-D Positioning. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2507-2518.	2.4	53
3	Ranging RFID Tags With Ultrasound. IEEE Sensors Journal, 2018, 18, 2967-2975.	2.4	38
4	An IoT System for Social Distancing and Emergency Management in Smart Cities Using Multi-Sensor Data. Algorithms, 2020, 13, 254.	1.2	31
5	A Real-Time Decision Platform for the Management of Structures and Infrastructures. Electronics (Switzerland), 2019, 8, 1180.	1.8	30
6	Mobile Synchronization Recovery for Ultrasonic Indoor Positioning. Sensors, 2020, 20, 702.	2.1	28
7	Energy harvesting for IoT road monitoring systems. Instrumentation Mesure Metrologie, 2018, 18, 605-623.	0.2	27
8	Simple and Low-Cost Photovoltaic Module Emulator. Electronics (Switzerland), 2019, 8, 1445.	1.8	26
9	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
10	Temperature Effects on the Efficiency of Dickson Charge Pumps for Radio Frequency Energy Harvesting. IEEE Access, 2018, 6, 65729-65736.	2.6	20
11	Open-Source Hardware Platforms for Smart Converters with Cloud Connectivity. Electronics (Switzerland), 2019, 8, 367.	1.8	19
12	Dynamic impedance matching network for RF energy harvesting systems. , 2014, , .		18
13	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
14	A Monolithic Multisensor Microchip with Complete On-Chip RF Front-End. Sensors, 2018, 18, 110.	2.1	18
15	Simulating Signal Aberration and Ranging Error for Ultrasonic Indoor Positioning. Sensors, 2020, 20, 3548.	2.1	15
16	Battery-less smart RFID tag with sensor capabilities. , 2012, , .		14
17	CMOS RF Transmitters with On-Chip Antenna for Passive RFID and IoT Nodes. Electronics (Switzerland), 2019, 8, 1448.	1.8	14
18	Performance assessment of an enhanced RFID sensor tag for long-run sensing applications. , 2014, , .		13

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19	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
20	CMOS wireless temperature sensor with integrated radiating element. Sensors and Actuators A: Physical, 2010, 158, 169-175.	2.0	11
21	An autonomous and energy efficient Smart Sensor Platform. , 2014, , .		11
22	Fully-integrated wireless temperature sensor with on-chip antenna. , 2008, , .		10
23	Using ANT Communications for Node Synchronization and Timing in a Wireless Ultrasonic Ranging System. , 2017, 1, 1-4.		8
24	RFID-Based Indoor Positioning Using Edge Machine Learning. IEEE Journal of Radio Frequency Identification, 2022, 6, 573-582.	1.5	8
25	Device-free hand gesture recognition exploiting Machine Learning applied to RFID. , 2021, , .		7
26	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
27	Acoustic Simulation for Performance Evaluation of Ultrasonic Ranging Systems. Electronics (Switzerland), 2021, 10, 1298.	1.8	6
28	LED junction temperature prediction using machine learning techniques. , 2020, , .		5
29	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
30	An Efficient Far-Field Wireless Power Transfer via Field Intensity Shaping Techniques. Electronics (Switzerland), 2021, 10, 1609.	1.8	5
31	Modulation speed improvement in a Fabry–Perot thermo-optical modulator through a driving signal optimization technique. Optical Engineering, 2009, 48, 074601.	0.5	4
32	A Direct Junction Temperature Measurement Technique for Power LEDs. , 2018, , .		4
33	Reconfigurable UHF RFID tag with sensing capabilities. , 2019, , .		4
34	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
35	Exploiting RFID technology for Indoor Positioning. , 2021, , .		4
36	CMOS fully integrated 2.5GHz active RFID tag with on-chip antenna. , 2010, , .		3

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37	Electronic sensors for intraoral force monitoring: state-of-the-art and comparison. Procedia CIRP, 2019, 79, 730-733.	1.0	3
38	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
39	Ranging with Frequency Dependent Ultrasound Air Attenuation. Sensors, 2021, 21, 4963.	2.1	3
40	Indoor Object Positioning using Smartphone and RFID or QRCode. , 2020, , .		3
41	Performance Evaluation of Silicon and GaN Switches for a Small Wireless Power Transfer System. Energies, 2022, 15, 3029.	1.6	3
42	13.56 MHZ SMART RFID TAG WITH ON-BOARD MICROCONTROLLER AND TEMPERATURE SENSOR. , 2008, , .		2
43	A microchip integrated temperature sensor with RF communication channel and on-chip antenna. Procedia Chemistry, 2009, 1, 473-476.	0.7	2
44	Fully RF Powered UHF-RFID Sensors Platform. Procedia Engineering, 2014, 87, 1346-1349.	1.2	2
45	Autonomous RFID sensor platform with highly efficient energy harvesting circuit. , 2015, , .		2
46	A Microchip Integrated Sensor for the Monitoring of High Concentration Photo-voltaic Solar Modules. Procedia Engineering, 2016, 168, 1601-1604.	1.2	2
47	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
48	SPICE modelling and experiments on a complete photovoltaic system including cells, storage elements, inverter and load. , 2016, , .		2
49	Tiny Machine Learning Techniques for Driving Behavior Scoring in a Connected Car Environment. , 2021, , .		2
50	One-shot SPICE simulation of photovoltaic modules, storage elements, inverter and load. , 2015, , .		1
51	Enabling communication among smart tags in an UHF RFID Local Area Network. , 2015, , .		1
52	Design and implementation of high resolution, high linearity temperature sensor in CMOS process. , 2015, , .		1
53	RF-powered UHF-RFID analog sensors platform. , 2015, , .		1
54	RF-Powered HF-RFID Analog Sensors Platform. Lecture Notes in Electrical Engineering, 2017, , 85-91.	0.3	1

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55	A CMOS IC for the real-time and wireless diagnostics of high concentration solar cells. , 2015, , .		0
56	Field Focusing for Energy Harvesting Applications in Smart RFID Tag. , 2019, , .		0
57	A Calorimetry Based System for Measuring the Power Losses of Switching Power Devices. Lecture Notes in Electrical Engineering, 2018, , 111-116.	0.3	0
58	Augmented Information Discovery using NFC Technology within a Platform for Disaster Monitoring. , 2020, , .		0
59	Ultrasonic Ranging using Frequency Selective Attenuation. , 2021, , .		0
60	Power LED junction temperature readout circuit based on an off-the-shelf LED driver. , 2020, , .		0
61	Advanced Sensors and Systems Technologies for Indoor Positioning. Sensors, 2022, 22, 3605.	2.1	0