Marco Faccio

List of Publications by Year
in descending order

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47	890	567281	477307
papers	citations	15 h-index	29 g-index

47	47	47	927
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Fully-Analogue Light-to-Frequency Converter Circuit for Optical Sensing Applications. IEEE Sensors Journal, 2022, 22, 16120-16130.	4.7	3
2	A New Multilevel Pulsed Modulation Technique for Low Power High Data Rate Optical Biotelemetry. , 2021, , .		2
3	Fast-Response Paradigm of Si Photodiode Array to Increase the Effective Sensitive Area of Detectors in Wireless Optical Biotelemetry Links. , 2020, , .		0
4	A 300 Mbps 37 pJ/bit UWB-Based Transcutaneous Optical Biotelemetry Link. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 1-1.	4.0	9
5	Performance and Hardware Complexity Trade-offs for Digital Transparent Processors in 5G Satcoms. , 2019, , .		1
6	A true random number generator architecture based on a reduced number of FPGA primitives. AEU - International Journal of Electronics and Communications, 2019, 105, 15-23.	2.9	28
7	A 0.35Î¼m CMOS UWB-Inspired Bidirectional Communication System-on-Chip for Transcutaneous Optical Biotelemetry Links. , 2019, , .		0
8	Design of Digital Satellite Processors: From Communications Link Performance to Hardware Complexity. IEEE Journal on Selected Areas in Communications, 2018, 36, 338-350.	14.0	6
9	An FPGA-Based Architecture of True Random Number Generator for Network Security Applications. , 2018, , .		2
10	An Ultra-Wideband-Inspired System-on-Chip for an Optical Bidirectional Transcutaneous Biotelemetry. , 2018, , .		8
11	Performance modeling, design and FPGA-based validation of digital transparent satellite processors. , 2018, , .		1
12	A 0.35Î¼m CMOS 200kHzâ€“2GHz Fully-Analogue Closed-Loop Circuit for Continuous-Time Clock Duty-Cycle Correction in Integrated Digital Systems. , 2018, , .		0
13	A design methodology for soft-core platforms on FPGA with SMP Linux, OpenMP support, and distributed hardware profiling system. Eurasip Journal on Embedded Systems, 2017, 2016, .	1.2	8
14	A 250Mbps 24pJ/bit UWB-inspired optical communication system for bioimplants. , 2017, , .		9
15	Modeling and performance analysis of advanced detection architectures for ADS-B signals in high interference environments. , 2017, , .		2
16	A Pulsed Coding Technique Based on Optical UWB Modulation for High Data Rate Low Power Wireless Implantable Biotelemetry. Electronics (Switzerland), 2016, 5, 69.	3.1	16
17	A New Optical UWB Modulation Technique for 250Mbps Wireless Link in Implantable Biotelemetry Systems. Procedia Engineering, 2016, 168, 1676-1680.	1.2	1
18	Analysis and Implementation of Distributed Data Processing in a Wireless Sensor Network for Structural Health Monitoring. Lecture Notes in Electrical Engineering, 2015, , 315-319.	0.4	1

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19	Design of Wireless Sensor Nodes for Structural Health Monitoring Applications. Procedia Engineering, 2014, 87, 1298-1301.	1.2	21
20	Distributed Structural Monitoring for a Smart City in a Seismic Area. Key Engineering Materials, 2014, 628, 123-135.	0.4	11
21	An accelerometer digital front end for efficient seismic event detection support in a wireless sensor node. , 2014, , .		0
22	Software-defined satellite ranging measurements using laboratory signal analyzer. , 2014, , .		4
23	A Methodology for Design of Scalable Architectures in Software Radio Networks: a Unified Device and Network Perspective. Journal of Signal Processing Systems, 2013, 73, 315-323.	2.1	0
24	Design and validation of a wireless sensor node for long term structural health monitoring. , 2013, , .		10
25	An Integrated Approach to the Design of Wireless Sensor Networks for Structural Health Monitoring. International Journal of Distributed Sensor Networks, 2012, 8, 594842.	2.2	24
26	A method for the determination of the thermally induced optical and structural changes of polymers used to fabricate lightpipes integrated in CMOS image sensor arrays. Sensors and Actuators A: Physical, 2011, 167, 385-388.	4.1	0
27	Electronic interface for the accurate read-out of resistive sensors in low voltageâ€“low power integrated systems. Sensors and Actuators A: Physical, 2005, 117, 121-126.	4.1	15
28	Low cost curvature correction of bandgap references for integrated sensors. Sensors and Actuators A: Physical, 2005, 117, 127-136.	4.1	9
29	A Very Low Voltage Bipolar Op-Amp for Sensor Applications. Analog Integrated Circuits and Signal Processing, 1999, 20, 11-23.	1.4	4
30	Silica effect on Î±-Fe2O3 humidity sensor1Presented at the 2nd East Asia Conference on Chemical Sensors, Xiâ€™an, P.R. China, 1995.1. Sensors and Actuators B: Chemical, 1998, 46, 186-193.	7.8	21
31	An electronic nose for food analysis. Sensors and Actuators B: Chemical, 1997, 44, 521-526.	7.8	144
32	Recognition of fish storage time by a metalloporphyrins-coated QMB sensor array. Measurement Science and Technology, 1996, 7, 1103-1114.	2.6	74
33	The application of metalloporphyrins as coating material for quartz microbalance-based chemical sensors. Analytica Chimica Acta, 1996, 325, 53-64.	5.4	140
34	Porous Silica-Coated alpha-Fe2O3 Ceramics for Humidity Measurement at Elevated Temperature. Journal of the American Ceramic Society, 1996, 79, 927-937.	3.8	65
35	Impedence analysis and circuit simulation of quartz resonator in water at different temperatures. Sensors and Actuators B: Chemical, 1996, 32, 169-173.	7.8	8
36	Bipolar rail-to-rail constant-gm input stage for low voltage applications. Electronics Letters, 1996, 32, 1467.	1.0	5

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37	Connectivity of pore networks in chemically sensitive materials. Sensors and Actuators B: Chemical, 1995, 25, 865-870.	7.8	2
38	Niobium-doped Î±-Fe2O3 semiconductor ceramic sensors for the measurement of nitric oxide gases. Sensors and Actuators B: Chemical, 1995, 25, 673-677.	7.8	16
39	NO2 gas sensitivity of sol-gel-derived Î±-Fe2O3 thin films. Thin Solid Films, 1995, 269, 97-101.	1.8	47
40	Principles and Applications of Ceramic Humidity Sensors. Active and Passive Electronic Components, 1994, 16, 69-87.	0.3	35
41	The influece of water vapour on carbon monoxide sensitivity of Î±-Fe2O3 microporous ceramic sensors. Sensors and Actuators B: Chemical, 1994, 19, 437-442.	7.8	40
42	Microstructure and electrical properties of Si-doped Î±-Fe2O3 humidity sensor. Sensors and Actuators B: Chemical, 1993, 16, 293-298.	7.8	24
43	Low concentration ammonia detection by LiTaO3. Sensors and Actuators B: Chemical, 1993, 13, 148-150.	7.8	1
44	Microstructure and electrical properties of an Î±-hematite ceramic humidity sensor. Sensors and Actuators B: Chemical, 1992, 7, 464-469.	7.8	39
45	Hydrogen chloride detection by LiTaO3. Sensors and Actuators B: Chemical, 1992, 7, 677-681.	7.8	2
46	A new fast method for ladder networks characterization. IEEE Transactions on Circuits and Systems, 1991, 38, 1377-1382.	0.9	29
47	Ladder network characterization and Fibonacci numbers. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1990, 12, 1165-1173.	0.4	3