

Fabio Leccese

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

1,719
citations

471509

17
h-index

434195

31
g-index

98
all docs

98
docs citations

98
times ranked

1363
citing authors

#	ARTICLE	IF	CITATIONS
1	Remote-Control System of High Efficiency and Intelligent Street Lighting Using a ZigBee Network of Devices and Sensors. IEEE Transactions on Power Delivery, 2013, 28, 21-28.	4.3	167
2	Underwater Optical Wireless Communications: Overview. Sensors, 2020, 20, 2261.	3.8	153
3	A Smart City Application: A Fully Controlled Street Lighting Isle Based on Raspberry-Pi Card, a ZigBee Sensor Network and WiMAX. Sensors, 2014, 14, 24408-24424.	3.8	144
4	Reliability and Maintenance Analysis of Unmanned Aerial Vehicles. Sensors, 2018, 18, 3171.	3.8	90
5	Adaptive Street Lighting Predictive Control. Energy Procedia, 2017, 111, 790-799.	1.8	66
6	A New Acquisition and Imaging System for Environmental Measurements: An Experience on the Italian Cultural Heritage. Sensors, 2014, 14, 9290-9312.	3.8	50
7	Dust detection and analysis in museum environment based on pattern recognition. Measurement: Journal of the International Measurement Confederation, 2015, 66, 62-72.	5.0	50
8	Calibration of Quantum Sensors by Neural Networks. Physical Review Letters, 2019, 123, 230502.	7.8	38
9	Smart lighting as basic building block of smart city: An energy performance comparative case study. Measurement: Journal of the International Measurement Confederation, 2019, 136, 466-477.	5.0	38
10	Intelligent wireless street lighting system. , 2012, , .		36
11	Reliability assessment of UAV systems. , 2017, , .		34
12	High Accuracy Attitude and Navigation System for an Autonomous Underwater Vehicle (AUV). Acta IMEKO (2012), 2018, 7, 3.	0.7	32
13	High Accuracy Buoyancy for Underwater Gliders: The Uncertainty in the Depth Control. Sensors, 2019, 19, 1831.	3.8	31
14	Why and when must the preventive maintenance be performed?. , 2014, , .		30
15	A new data logger based on Raspberry-Pi for Arctic Notostraca locomotion investigations. Measurement: Journal of the International Measurement Confederation, 2017, 110, 249-256.	5.0	29
16	Power consumption scheduling for residential buildings. , 2012, , .		27
17	A first study on prognostic system for electric engines based on Envelope Analysis. , 2014, , .		26
18	A New Dusts Sensor for Cultural Heritage Applications Based on Image Processing. Sensors, 2014, 14, 9813-9832.	3.8	26

#	ARTICLE	IF	CITATIONS
19	Optimization of availability operation via simulated prognostics. , 2015, , .		26
20	A step toward the standardization of maintenance and training services in C4I military systems with Mixed Reality application. Measurement: Journal of the International Measurement Confederation, 2019, 138, 149-156.	5.0	26
21	Strain gauge sensors based on thermoplastic nanocomposite for monitoring inflatable structures. , 2014, , .		23
22	Improvement of altitude precision in indoor and urban canyon navigation for small flying vehicles. , 2015, , .		22
23	Non recursive multi-harmonic least squares fitting for grid frequency estimation. Measurement: Journal of the International Measurement Confederation, 2015, 66, 229-237.	5.0	22
24	A New Power Quality Instrument Based on Raspberry-Pi. Electronics (Switzerland), 2016, 5, 64.	3.1	22
25	The ASD S3000L for the enhancement of "in field" avionic measurements. , 2014, , .		21
26	Development on aerospace composite structures investigation using thermography and shearography in comparison to traditional NDT methods. , 2015, , .		21
27	Shapes classification of dust deposition using fuzzy kernel-based approaches. Measurement: Journal of the International Measurement Confederation, 2016, 77, 344-350.	5.0	20
28	A proposal to update LSA databases for an operational availability based on autonomic logistic. , 2015, , .		19
29	Lightweight GNSS/IRS integrated navigation system for UAV vehicles. , 2014, , .		17
30	An infrared sensor Tx/Rx electronic card for aerospace applications. , 2014, , .		16
31	Flavors mapping by Kohonen network classification of Panel Tests of Extra Virgin Olive Oil. Measurement: Journal of the International Measurement Confederation, 2016, 78, 366-372.	5.0	16
32	Reliability Degradation, Preventive and Corrective Maintenance of UAV Systems. , 2018, , .		16
33	Simulation of Autonomous Underwater Vehicles (AUVs) Swarm Diffusion. Sensors, 2020, 20, 4950.	3.8	16
34	Power quality measurements in telecommunication exchanges. , 2008, , .		15
35	Non recursive Nonlinear Least Squares for periodic signal fitting. Measurement: Journal of the International Measurement Confederation, 2017, 103, 208-216.	5.0	15
36	Rome, a first example of perceived power quality of electrical energy: The telecommunication point of view. , 2007, , .		14

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37	Viability of an optoelectronic system for real time roughness measurement. Measurement: Journal of the International Measurement Confederation, 2014, 58, 537-543.	5.0	14
38	Inertial Navigation Systems for UAV: Uncertainty and Error Measurements. , 2019, , .		14
39	LED as Transmitter and Receiver of Light: A Simple Tool to Demonstration Photoelectric Effect. Crystals, 2019, 9, 531.	2.2	14
40	Prognostics via physics-based probabilistic simulation approaches. , 2016, , .		13
41	Reliability and SEE mitigation in memories for space applications. , 2016, , .		12
42	A RAMS analysis for a precision scale-up configuration of "Smart Street" pilot site: an Industry 4.0 Case Study. Acta IMEKO (2012), 2019, 8, 3.	0.7	12
43	A proposal to improve the system life cycle support of composites structures mapping zonal testing data on LSA Databases. , 2016, , .		11
44	Improving autonomic logistic analysis by including the production compliancy status as initial degradation state. , 2016, , .		11
45	Phase correlation functions: FFT vs. FHT. Acta IMEKO (2012), 2019, 8, 87.	0.7	11
46	Monitoring and Analyzing of Circadian and Ultradian Locomotor Activity Based on Raspberry-Pi. Electronics (Switzerland), 2016, 5, 58.	3.1	10
47	Procedure for the space certification of a controller for soilless cultivation. , 2016, , .		9
48	A Simple Takagi-Sugeno Fuzzy Modelling Case Study for an Underwater Glider Control System. , 2018, , .		9
49	Energy saving project for heating system with ZigBee wireless control network. , 2012, , .		8
50	An IoT Application for Industry 4.0: a New and Efficient Public Lighting Management Model. , 2020, , .		8
51	Unmanned Autogyro for Mars Exploration: A Preliminary Study. Drones, 2021, 5, 53.	4.9	8
52	Procedure for the certification of spacecraft sensors: An Italian LME success history. , 2016, , .		7
53	Inertial Navigation Systems (INS) for Drones: Position Errors Model. , 2020, , .		7
54	A simple method for calculating lumped parameters of planar spiral coil for wireless energy transfer. , 2012, , .		6

#	ARTICLE	IF	CITATIONS
55	An overview on IEEE Std 2030. , 2012, , .		6
56	Experimental in field reliability test for data logger based on Raspberry-Pi for extreme scenarios: A first step versus aerospace applications. , 2016, , .		6
57	A High Accuracy Buoyancy System Control for an Underwater Glider. , 2018, , .		6
58	Comparison between Routing Protocols for Wide Archeological Site. , 2018, , .		6
59	Preliminary Study for AUV: Longitudinal Stabilization Method Based on Takagi-Sugeno Fuzzy Inference System. Sensors, 2021, 21, 1866.	3.8	6
60	Study of a New GPS-Carriers Based Time Reference with High Instantaneous Accuracy. , 2007, , .		5
61	Ex situ CO ₂ mineralization via nesquehonite: A first attempt for an industrial application. , 2012, , .		5
62	A system for obtaining a frequency reference constantly locked to L1 GPS carrier for distributed power quality assessment. , 2009, , .		4
63	A multi-platform Data Acquisition Device for Power Quality metrological certification. , 2010, , .		4
64	Curve Fitting Algorithm FPGA implementation. , 2011, , .		4
65	Risks analysis for already existent electric lifelines in case of seismic disaster. , 2012, , .		4
66	Electronic Nose for Pesticides: The First Study Towards a Smart Analysis. Contemporary Agriculture, 2019, 68, 17-22.	0.4	4
67	Study and characterization of a new protection system against surges and over voltages for domestic telecommunication networks. , 2007, , .		3
68	Study and realization of an instrument FPGA based to implement curve-fitting algorithm (CFA). , 2007, , .		3
69	Subharmonics determination method based on binary successive approximation feed forward artificial neural network: a preliminary study. , 2010, , .		3
70	Enhanced PLL system for Harmonic Analysis through Genetic Algorithm application. , 2012, , .		3
71	Development of an USB data acquisition system for Power Quality and smart metering applications. , 2012, , .		3
72	Geographical monitoring of electrical energy quality determination: The problems of the sensors. , 2013, , .		3

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73	Infrared Passive Thermography to Identify and Assess Inflammatory Diseases. , 2018, , .		3
74	In-Line Quality Control in Semiconductors Production and Availability for Industry 4.0. , 2020, , .		3
75	Unmanned Autogyro for Advanced SAR Tasks: a Preliminary Assessment. , 2020, , .		3
76	Simulation of a WSN Routing Protocol for Airport Runway Application. , 2020, , .		3
77	LED Rail Signals: Full Hardware Realization of Apparatus with Independent Intensity by Temperature Changes. Electronics (Switzerland), 2021, 10, 1291.	3.1	3
78	New Reliability for Industry 4.0: a Caste Study in COTS-Based Equipment. , 2021, , .		3
79	Navigation Equations, Uncertainty and Error Budget in Inertial Navigation Systems. , 2021, , .		3
80	Precise Takagi-Sugeno fuzzy logic system for UAV longitudinal stability: an Industry 4.0 case study for aerospace. Acta IMEKO (2012), 2020, 9, 106.	0.7	3
81	New subranging adc architecture for telecommunication systems. , 2007, , .		2
82	PLL system for harmonic analysis. , 2011, , .		2
83	Evaluation software for fuel cells performance tests. , 2011, , .		2
84	Digital signal generator for real-time FPGA power quality alghoritm test. , 2012, , .		2
85	A Distributed Web-Based System for Temporal and Spatial Power Quality Analysis. , 0, , .		2
86	“Smart Street” Pilot Site: A RAMS Analysys for a Scale-Upconfiguration. , 2018, , .		2
87	Indoor lighting fault detection and diagnosis using a data fusion approach. WIT Transactions on Ecology and the Environment, 2014, , .	0.0	2
88	Power quality in telecommunication exchanges delivery points. , 2009, , .		1
89	Development of Electrochemical Impedance Spectroscopy instrument for survey on fuel cell. , 2012, , .		1
90	MPRR and Pegasus Routing Protocol comparison for Aerospace application. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
91	An Analysis for a Precise Reliability and Availability Assessment of “Photovoltaic System” Pilot Site: a Case Study. , 2021, , .		1
92	Comparing Routing Protocols for WSN in Agricultural Scenario. , 2021, , .		1
93	Multiple echoes putting down in ultrasound. , 0, , .		0
94	Perspectives of QoS Management Based on QoAS for 3G Communication Systems. Wireless Personal Communications, 2003, 24, 249-273.	2.7	0
95	Folding converters. , 2012, , .		0
96	System to Monitor IR Radiation of LED Aircraft Warning Lights. , 2021, , .		0
97	Design of a Thermographic System for Fire Prevention in Aircraft Cabins. , 2021, , .		0
98	Modular Pod Wells Turbine Array: a Preliminary Assessment. , 2021, , .		0