

Patrizia Livreri

List of Publications by Year in descending order

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78
papers

1,072
citations

567281

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h-index

501196

28
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78
all docs

78
docs citations

78
times ranked

1299
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Mobility, Wet-Transferred Graphene Grown by Chemical Vapor Deposition. ACS Nano, 2019, 13, 8926-8935.	14.6	132
2	Wideband THz Time Domain Spectroscopy based on Optical Rectification and Electro-Optic Sampling. Scientific Reports, 2013, 3, 3116.	3.3	82
3	Strategies and Techniques for Powering Wireless Sensor Nodes through Energy Harvesting and Wireless Power Transfer. Sensors, 2019, 19, 2660.	3.8	78
4	Electrochemical Deposition of CZTS Thin Films on Flexible Substrate. Energy Procedia, 2014, 44, 105-110.	1.8	52
5	A Novel Energy Harvester for Powering Small UAVs: Performance Analysis, Model Validation and Flight Results. Sensors, 2019, 19, 1771.	3.8	46
6	Nanostructured Ni-Co alloy electrodes for both hydrogen and oxygen evolution reaction in alkaline electrolyzer. International Journal of Hydrogen Energy, 2021, 46, 10082-10092.	7.1	44
7	Evaluation of an optical energy harvester for SHM application. AEU - International Journal of Electronics and Communications, 2019, 111, 152918.	2.9	34
8	An efficient wireless power transfer prototype for electrical vehicles. , 2017, , .		33
9	Fabrication and Photoelectrochemical Behavior of Ordered CIGS Nanowire Arrays for Application in Solar Cells. Electrochemical and Solid-State Letters, 2010, 13, K22.	2.2	32
10	Experimental Validation of a Novel Method for Harmonic Mitigation for a Three-Phase Five-Level Cascaded H-Bridges Inverter. IEEE Transactions on Industry Applications, 2019, 55, 6089-6101.	4.9	25
11	Current-sensing technique for current-mode controlled voltage regulator modules. Microelectronics Journal, 2008, 39, 1852-1859.	2.0	23
12	A circularly polarized wideband high gain patch antenna for wireless power transfer. Microwave and Optical Technology Letters, 2018, 60, 620-625.	1.4	23
13	An Energy-Autonomous Wireless Sensor With Simultaneous Energy Harvesting and Ambient Light Sensing. IEEE Sensors Journal, 2021, 21, 13744-13752.	4.7	21
14	Advanced Monitoring Systems Based on Battery-Less Asset Tracking Modules Energized through RF Wireless Power Transfer. Sensors, 2020, 20, 3020.	3.8	20
15	An over-the-distance wireless battery charger based on RF energy harvesting. , 2017, , .		19
16	Design of a Battery/Ultracapacitor Energy Storage System for Electric Vehicle Applications. , 2018, , .		19
17	Fuel cell modelling for power supply systems design. , 2008, , .		18
18	Hydrogel films engineered in a mesoscopically ordered structure and responsive to ethanol vapors. Reactive and Functional Polymers, 2014, 79, 68-76.	4.1	18

#	ARTICLE	IF	CITATIONS
19	Experimental Investigation on the Performances of Innovative PV Vertical Structures. <i>Photonics</i> , 2019, 6, 86.	2.0	18
20	Analysis and design of bi-directional DC-DC converters for ultracapacitors management in EVs. , 2018, , .		16
21	Entanglement Robustness via Spatial Deformation of Identical Particle Wave Functions. <i>Entropy</i> , 2021, 23, 708.	2.2	16
22	Study and evaluation of nano-structured cellulose fibers as additive for restoration of historical mortars and plasters. <i>Materials Today: Proceedings</i> , 2017, 4, 6954-6965.	1.8	15
23	Ruthenium Oxide Nanotubes Via Template Electrosynthesis. <i>Current Nanoscience</i> , 2011, 7, 210-218.	1.2	14
24	A Battery-Free Smart Sensor Powered with RF Energy. , 2018, , .		13
25	A novel method for harmonic mitigation for single-phase five-level cascaded H-Bridge inverter. , 2018, , .		13
26	Optimum Design and Performance of an Electron Gun for a Ka -Band TWT. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 4036-4041.	3.0	13
27	Design of a Compact Dual Circular-Polarized Antenna for L-Band Satellite Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020, 19, 547-551.	4.0	13
28	Ultrathin Silicon Nanowires for Optical and Electrical Nitrogen Dioxide Detection. <i>Nanomaterials</i> , 2021, 11, 1767.	4.1	12
29	Synthesis of yttrium aluminum garnet nanoparticles in confined environment II: Role of the thermal treatment on the composition and microstructural evolution. <i>Journal of Alloys and Compounds</i> , 2017, 719, 264-270.	5.5	11
30	Modeling and simulation of a digital control design approach for power supply systems. , 2006, , .		10
31	Exploiting state information to support QoS in Software-Defined WSNs. , 2016, , .		10
32	Optimal matching between optical rectennas and harvester circuits. , 2017, , .		10
33	Power Management of a Battery/Supercapacitor System for E-Mobility Applications. , 2019, , .		10
34	An RF Wireless Power Transfer system to power battery-free devices for asset tracking. , 2019, , .		9
35	Measurement-based load modelling for power supply system design. , 2008, , .		8
36	Simulation of a single-phase five-level cascaded H-Bridge inverter with multicarrier SPWM B-Spline based modulation techniques. , 2017, , .		8

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37	A Telemetry, Tracking, and Command Antennas System for Small-Satellite Applications. Electronics (Switzerland), 2019, 8, 689.	3.1	8
38	Josephson Traveling Wave Parametric Amplifiers as non-classical light source for Microwave Quantum Illumination. Measurement: Sensors, 2021, 18, 100349.	1.7	8
39	Bimodal Approach for Noise Figures of Merit Evaluation in Quantum-Limited Josephson Traveling Wave Parametric Amplifiers. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-6.	1.7	8
40	Random quasi-phase matching in congruent lithium tantalate waveguides by proton exchange. Electronics Letters, 2012, 48, 783.	1.0	7
41	A Hybrid Storage System for Wireless Sensor Nodes powered with Energy Harvesting. , 2019, , .		7
42	Engineering in-plane mechanics of electrospun polyurethane scaffolds for cardiovascular tissue applications. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 128, 105126.	3.1	7
43	Investigation of Annealing Conditions on Electrochemically Deposited CZTS Film on Flexible Molybdenum Foil. Journal of the Electrochemical Society, 2016, 163, D532-D536.	2.9	6
44	Microwave Quantum Radar using a Josephson Traveling Wave Parametric Amplifier. , 2022, , .		6
45	A fuel cell-based hybrid power supply for portable electronics devices. , 2008, , .		5
46	Novel GaN Based Solid State Power Amplifiers, Results, Advances and Comparison with Vacuum Tubes Based Microwave Power Modules. , 2018, , .		5
47	Design of a 1 kW output power Folded Waveguide TWT operating in ka-band. , 2019, , .		5
48	A Battery-free Asset Monitoring System based on RF Wireless Power Transfer. , 2020, , .		5
49	A novel technique for computer-aided design of low noise microwave amplifiers. , 0, , .		4
50	HEMT for low-noise microwaves: CAD-oriented performance evaluation. IEEE Transactions on Microwave Theory and Techniques, 1995, 43, 1226-1229.	4.6	4
51	Wireless battery charging for electric bicycles. , 2017, , .		4
52	An energy autonomous and battery-free measurement system for ambient light power with time domain readout. Measurement: Journal of the International Measurement Confederation, 2021, 186, 110158.	5.0	4
53	Trade-off Performance of Optical Nanoantennas for Solar Energy Harvesting Applications. , 2019, , .		4
54	Fluorescent Biosensors Based on Silicon Nanowires. Nanomaterials, 2021, 11, 2970.	4.1	4

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55	On the noise-gain performance evaluation of active devices for microwaves. , 0, , .		3
56	A novel digital control for DC/DC converters to improve steady-state performances. , 2006, , .		3
57	New approach for harmonic mitigation in single-phase five-level CHBML with fundamental frequency switching. , 2017, , .		3
58	Ev charging station at university campus. , 2017, , .		3
59	Novel Computational Method for Harmonic Mitigation for Three-phase Five-level Cascaded H-Bridge Inverter. , 2018, , .		3
60	A Novel Plasmonic Nanoantenna for High Efficiency Energy Harvesting Applications. , 2020, , .		3
61	Merit Figures of Low Noise HEMTs from Complete Characterization. , 1991, , .		2
62	A new current-mode control for DC/DC converter. , 2005, , .		2
63	A 3.3 V Output Voltage Optical Plasmonic Solar Energy Harvester. , 2021, , .		2
64	Optical Plasmonic Nanoantenna-MWCNT diode Energy Harvester for Solar Powered Wireless Sensors. , 2021, , .		2
65	Temperature Dependence of pHEMT-Based LNA Performance for VSAT Applications. , 1994, , .		1
66	A fuel cell-supercapacitor power supply for portable applications. , 2008, , .		1
67	A LiDAR Prototype with Silicon Photomultiplier and MEMS Mirrors. , 2018, , .		1
68	Optimal Design of an X-Band, Fully-Coaxial, Easily-Tunable Broadband Power Equalizer for a Microwave Power Module. Electronics (Switzerland), 2020, 9, 829.	3.1	1
69	Intrinsically Self-powered, Battery-free, and Sensor-free Ambient Light Control System. , 2021, , .		1
70	A 28.3 THz Plasmonic Graphene Arrow-bowtie Nanoantenna for Energy Harvesting. , 2021, , .		1
71	High-sensitivity narrow-band CSRR-based Microwave Sensor for Monitoring Glucose Level. , 2022, , .		1
72	A New Model for Sigma-Delta Modulator Oriented to Digitally Controlled DC/DC Converter. International Journal of Modelling and Simulation, 2007, 27, 46-52.	3.3	0

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73	Photovoltaic facade: Comparison of actual technologies. , 2017, , .		0
74	Speed detection of battery-free nodes based on RF Wireless Power Transfer. , 2020, , .		0
75	A Self-powered Ambient Light Power Measurement Platform with Time-domain Readout. , 2021, , .		0
76	Design of a double-gap Hughes-type coupled-cavity for a Ka-band Extended Interaction Klystron. , 2020, , .		0
77	$2.6 \mu\text{V}$ - $10 \mu\text{A}$ Nanorectenna Harvester based on thermal radiation of the car exhaust system. , 2021, , .		0
78	Design of a Conic Helix Slow-Wave Structure for TWT BWO Immunity and High Efficiency. , 2020, , .		0