

J P Carmo

List of Publications by Year in descending order

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75
papers

1,021
citations

430442

18
h-index

476904

29
g-index

75
all docs

75
docs citations

75
times ranked

1260
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermoelectric Microconverter for Energy Harvesting Systems. IEEE Transactions on Industrial Electronics, 2010, 57, 861-867.	5.2	142
2	New dry electrodes based on iridium oxide (IrO) for non-invasive biopotential recordings and stimulation. Sensors and Actuators A: Physical, 2010, 164, 28-34.	2.0	68
3	Simultaneous cardiac and respiratory frequency measurement based on a single fiber Bragg grating sensor. Measurement Science and Technology, 2011, 22, 075801.	1.4	60
4	Characterization of thermoelectric generators by measuring the load-dependence behavior. Measurement: Journal of the International Measurement Confederation, 2011, 44, 2194-2199.	2.5	45
5	Application of Fiber Bragg Gratings to Wearable Garments. IEEE Sensors Journal, 2012, 12, 261-266.	2.4	44
6	Wireless instrumentation system based on dry electrodes for acquiring EEG signals. Medical Engineering and Physics, 2012, 34, 972-981.	0.8	42
7	A 2.4-GHz CMOS Short-Range Wireless-Sensor-Network Interface for Automotive Applications. IEEE Transactions on Industrial Electronics, 2010, 57, 1764-1771.	5.2	39
8	A Flexible Infrastructure for Dynamic Power Control of Electric Vehicle Battery Chargers. IEEE Transactions on Vehicular Technology, 2016, 65, 4535-4547.	3.9	32
9	A review of visible-range Fabry-Pérot microspectrometers in silicon for the industry. Optics and Laser Technology, 2012, 44, 2312-2320.	2.2	31
10	A planar thermoelectric power generator for integration in wearable microsystems. Sensors and Actuators A: Physical, 2010, 161, 199-204.	2.0	26
11	Thermoelectric generator and solid-state battery for stand-alone microsystems. Journal of Micromechanics and Microengineering, 2010, 20, 085033.	1.5	24
12	Portable Laboratory Platform With Electrochemical Biosensors for Immunodiagnostic of Hepatitis C Virus. IEEE Sensors Journal, 2019, 19, 10701-10709.	2.4	23
13	Digitally-controlled array of solid-state microcoolers for use in surgery. Microsystem Technologies, 2011, 17, 1283-1291.	1.2	22
14	Characterization of thermoelectric generator for energy harvesting. Measurement: Journal of the International Measurement Confederation, 2017, 106, 283-290.	2.5	22
15	A Nanometer Resolution Wearable Wireless Medical Device for Non Invasive Intracranial Pressure Monitoring. IEEE Sensors Journal, 2021, 21, 22270-22284.	2.4	22
16	A 2.4-GHz Low-Power/Low-Voltage Wireless Plug-and-Play Module for EEG Applications. IEEE Sensors Journal, 2007, 7, 1524-1531.	2.4	21
17	5.7GHz on-chip antenna/RF CMOS transceiver for wireless sensor networks. Sensors and Actuators A: Physical, 2006, 132, 47-51.	2.0	20
18	FBG in PVC foils for monitoring the knee joint movement during the rehabilitation process. , 2011, 2011, 458-61.		20

#	ARTICLE	IF	CITATIONS
19	Roadmap for Electrical Impedance Spectroscopy for Sensing: A Tutorial. IEEE Sensors Journal, 2021, 21, 22246-22257.	2.4	20
20	Enhanced solid-state electrolytes made of lithium phosphorous oxynitride films. Thin Solid Films, 2012, 522, 85-89.	0.8	19
21	Improved p- and n-type thin-film microstructures for thermoelectricity. Electronics Letters, 2009, 45, 803.	0.5	15
22	Piezoelectrets with well-defined cavities produced from 3D-printed acrylonitrile butadiene styrene structures. Electronics Letters, 2015, 51, 2028-2030.	0.5	14
23	Hydrophone based on 3D printed polypropylene (PP) piezoelectret. Electronics Letters, 2019, 55, 203-204.	0.5	14
24	An energy scavenging microsystem based on thermoelectricity for battery life extension in laptops. , 2009, , .		12
25	Low-cost/high-reproducibility flexible sensor based on photonics for strain measuring. Optics and Laser Technology, 2014, 56, 278-284.	2.2	12
26	Piezoelectrets: A Brief Introduction. IEEE Sensors Journal, 2021, 21, 22317-22328.	2.4	12
27	A Low-Power/Low-Voltage CMOS Wireless Interface at 5.7 GHz With Dry Electrodes for Cognitive Networks. IEEE Sensors Journal, 2011, 11, 755-762.	2.4	11
28	Acquisition and Monitoring System for TEG Characterization. International Journal of Distributed Sensor Networks, 2015, 11, 531516.	1.3	11
29	Measurement and statistical analysis toward reproducibility validation of AZ4562 cylindrical microlenses obtained by reflow. Measurement: Journal of the International Measurement Confederation, 2014, 49, 60-67.	2.5	10
30	Low-power/low-voltage RF microsystems for wireless sensors networks. Microelectronics Journal, 2009, 40, 1746-1754.	1.1	9
31	Integrated thin-film rechargeable battery in a thermoelectric scavenging microsystem. , 2009, , .		9
32	Electron beam irradiation for the formation of thick Ag film on Ag ₃ PO ₄ . RSC Advances, 2020, 10, 21745-21753.	1.7	9
33	<title>2.4 GHz wireless sensor network for smart electronic shirts</title>. , 2005, , .		8
34	RF CMOS transceiver at 2.4GHz in wearables for measuring the cardio-respiratory function. Measurement: Journal of the International Measurement Confederation, 2011, 44, 65-73.	2.5	8
35	A thin-film rechargeable battery for integration in stand-alone microsystems. Procedia Chemistry, 2009, 1, 453-456.	0.7	7
36	Super-regenerative receiver at 433MHz. Microelectronics Journal, 2011, 42, 681-687.	1.1	7

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37	A flexible thin-film for powering stand alone electronic devices. Measurement: Journal of the International Measurement Confederation, 2013, 46, 4145-4151.	2.5	6
38	High data rate acoustic modem for underwater applications. , 2014, , .		6
39	A Low-Cost Flexible-Platform (LCFP) for characterization of photodetectors. Measurement: Journal of the International Measurement Confederation, 2015, 61, 206-215.	2.5	6
40	Low-cost electro-acoustic system based on ferroelectret transducer for characterizing liquids. Measurement: Journal of the International Measurement Confederation, 2019, 131, 42-49.	2.5	6
41	Photovoltaic Sub-Module With Optical Sensor for Angular Measurements of Incident Light. IEEE Sensors Journal, 2019, 19, 3111-3120.	2.4	6
42	Multi-Purpose Microwave Biosensor Based on Signal Encoding Technique and Microfluidics for Improved Sensitivity. IEEE Sensors Journal, 2021, 21, 4571-4581.	2.4	6
43	Low-power 2.4-GHz RF transceiver for wireless EEG module plug-and-play. , 2006, , .		5
44	A 4.2 mW 5.7-GHz frequency synthesizer with dynamic-logic (TSPC) frequency divider. , 2009, , .		5
45	Fabricating Microlenses on Photodiodes to Increase the Light-Current Conversion Efficiency. IEEE Sensors Journal, 2014, 14, 1343-1344.	2.4	5
46	Capacitive Silicon Modulator Design With V-Shaped SiO ₂ Gate Waveguide to Optimize V_{π} times L and Bandwidth Trade-Off. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-8.	1.9	5
47	Optical Filters for Narrow Band Light Adaptation on Imaging Devices. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	1.9	5
48	Challenges in silicon photonics modulators for data center interconnect applications. Optics and Laser Technology, 2021, 144, 107376.	2.2	5
49	Low-Noise Amplifier for Deep-Brain Stimulation (DBS). Electronics (Switzerland), 2022, 11, 939.	1.8	5
50	Ferroelectret-based Hydrophone Employed in Oil Identification – A Machine Learning Approach. Sensors, 2020, 20, 2979.	2.1	4
51	Piezoelectric-magnetic behavior of ferroelectrets coated with magnetic layer. Applied Physics Letters, 2021, 119, .	1.5	4
52	A 2.4-GHz wireless sensor network for smart electronic shirts integration. , 2007, , .		3
53	Effects of the ESD protections in the behavior of a 2.4 GHz RF transceiver: Problems and solutions. , 2008, , .		3
54	Solid-state microcoolers and thermal energy harvesting microsystems. , 2009, , .		3

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73	Microlenses and photodetectors integration for augmenting photocurrent. , 2014, , .		0
74	Imaging amplification for minimally invasive medical devices. , 2015, , .		0
75	Optical filters for narrow-band imaging on medical devices. , 2017, , .		0