

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	Low-Noise Amplifier for Deep-Brain Stimulation (DBS). Electronics (Switzerland), 2022, 11, 939.	1.8	5
2	A Nanometer Resolution Wearable Wireless Medical Device for Non Invasive Intracranial Pressure Monitoring. IEEE Sensors Journal, 2021, 21, 22270-22284.	2.4	22
3	Piezoelectrets: A Brief Introduction. IEEE Sensors Journal, 2021, 21, 22317-22328.	2.4	12
4	Roadmap for Electrical Impedance Spectroscopy for Sensing: A Tutorial. IEEE Sensors Journal, 2021, 21, 22246-22257.	2.4	20
5	Multi-Purpose Microwave Biosensor Based on Signal Encoding Technique and Microfluidics for Improved Sensitivity. IEEE Sensors Journal, 2021, 21, 4571-4581.	2.4	6
6	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
7	Silicon modulator design using a system-oriented methodology for high-speed data center interconnect PAM-4 applications. Optics Communications, 2021, 492, 126977.	1.0	1
8	Challenges in silicon photonics modulators for data center interconnect applications. Optics and Laser Technology, 2021, 144, 107376.	2.2	5
9	Piezoelectric-magnetic behavior of ferroelectrets coated with magnetic layer. Applied Physics Letters, 2021, 119, .	1.5	4
10	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
11	Ferroelectret-based Hydrophone Employed in Oil Identification – A Machine Learning Approach. Sensors, 2020, 20, 2979.	2.1	4
12	Electron beam irradiation for the formation of thick Ag film on Ag ₃ PO ₄ . RSC Advances, 2020, 10, 21745-21753.	1.7	9
13	Wireless Portable Evaluation Platform for Photodynamic Therapy: In vitro Assays on Human Gastric Adenocarcinoma Cells. IEEE Sensors Journal, 2020, 20, 13950-13958.	2.4	2
14	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
15	Portable Laboratory Platform With Electrochemical Biosensors for Immunodiagnostic of Hepatitis C Virus. IEEE Sensors Journal, 2019, 19, 10701-10709.	2.4	23
16	Photovoltaic Sub-Module With Optical Sensor for Angular Measurements of Incident Light. IEEE Sensors Journal, 2019, 19, 3111-3120.	2.4	6
17	Hydrophone based on 3D printed polypropylene (PP) piezoelectret. Electronics Letters, 2019, 55, 203-204.	0.5	14
18	Characterization of thermoelectric generator for energy harvesting. Measurement: Journal of the International Measurement Confederation, 2017, 106, 283-290.	2.5	22

#	ARTICLE	IF	CITATIONS
19	Optical filters for narrow-band imaging on medical devices. , 2017, , .		0
20	CMOS developments for photonic modules on endoscopic capsules. , 2017, , .		1
21	A biopotential amplifier in CMOS for neural recording on optogenetics applications. , 2017, , .		2
22	A Flexible Infrastructure for Dynamic Power Control of Electric Vehicle Battery Chargers. IEEE Transactions on Vehicular Technology, 2016, 65, 4535-4547.	3.9	32
23	Low $\langle \text{inline-formula} \rangle \langle \text{tex-math notation="LaTeX"} \rangle \langle \text{f} \rangle \langle \text{Number} \rangle$ Microlenses for Integration on Optical Microsystems. IEEE Sensors Journal, 2015, 15, 4073-4075.	2.4	2
24	Piezoelectrets with wellâ€defined cavities produced from 3Dâ€printed acrylonitrile butadiene styrene structures. Electronics Letters, 2015, 51, 2028-2030.	0.5	14
25	Imaging amplification for minimally invasive medical devices. , 2015, , .		0
26	A Low-Cost Flexible-Platform (LCFP) for characterization of photodetectors. Measurement: Journal of the International Measurement Confederation, 2015, 61, 206-215.	2.5	6
27	Acquisition and Monitoring System for TEG Characterization. International Journal of Distributed Sensor Networks, 2015, 11, 531516.	1.3	11
28	Fabricating Microlenses on Photodiodes to Increase the Light-Current Conversion Efficiency. IEEE Sensors Journal, 2014, 14, 1343-1344.	2.4	5
29	High data rate acoustic modem for underwater applications. , 2014, , .		6
30	The effect of microlenses in photodiodes' dark current measurement. , 2014, , .		1
31	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
32	Low-cost/high-reproducibility flexible sensor based on photonics for strain measuring. Optics and Laser Technology, 2014, 56, 278-284.	2.2	12
33	Microlenses and photodetectors integration for augmenting photocurrent. , 2014, , .		0
34	Optical filters for stereoscopic image sensors. , 2013, , .		0
35	A flexible thin-film for powering stand alone electronic devices. Measurement: Journal of the International Measurement Confederation, 2013, 46, 4145-4151.	2.5	6
36	Characterization of coating processes in MoirÃ© Diffraction Gratings for strain measurements. Optics and Laser Technology, 2013, 47, 159-165.	2.2	2

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37	Fabrication Methodology of Microlenses for Stereoscopic Imagers Using Standard CMOS Process. ECS Transactions, 2012, 49, 323-330.	0.3	0
38	Enhanced solid-state electrolytes made of lithium phosphorous oxynitride films. Thin Solid Films, 2012, 522, 85-89.	0.8	19
39	Microlenses Array Made with AZ4562 Photoresist for Stereoscopic Acquisition. Procedia Engineering, 2012, 47, 619-622.	1.2	3
40	Wireless instrumentation system based on dry electrodes for acquiring EEG signals. Medical Engineering and Physics, 2012, 34, 972-981.	0.8	42
41	Application of Fiber Bragg Gratings to Wearable Garments. IEEE Sensors Journal, 2012, 12, 261-266.	2.4	44
42	A review of visible-range Fabry-Pérot microspectrometers in silicon for the industry. Optics and Laser Technology, 2012, 44, 2312-2320.	2.2	31
43	Magnetic Control Platform for Wireless Endoscopic Capsules. Procedia Engineering, 2011, 25, 996-999.	1.2	1
44	Stereoscopic image sensor in CMOS technology. Procedia Engineering, 2011, 25, 1277-1280.	1.2	1
45	Characterization of thermoelectric generators by measuring the load-dependence behavior. Measurement: Journal of the International Measurement Confederation, 2011, 44, 2194-2199.	2.5	45
46	Digitally-controlled array of solid-state microcoolers for use in surgery. Microsystem Technologies, 2011, 17, 1283-1291.	1.2	22
47	Super-regenerative receiver at 433MHz. Microelectronics Journal, 2011, 42, 681-687.	1.1	7
48	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
49	FBG in PVC foils for monitoring the knee joint movement during the rehabilitation process. , 2011, 2011, 458-61.		20
50	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
51	Simultaneous cardiac and respiratory frequency measurement based on a single fiber Bragg grating sensor. Measurement Science and Technology, 2011, 22, 075801.	1.4	60
52	A planar thermoelectric power generator for integration in wearable microsystems. Sensors and Actuators A: Physical, 2010, 161, 199-204.	2.0	26
53	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
54	Thermoelectric generator and solid-state battery for stand-alone microsystems. Journal of Micromechanics and Microengineering, 2010, 20, 085033.	1.5	24

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55	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
56	Thermoelectric Microconverter for Energy Harvesting Systems. IEEE Transactions on Industrial Electronics, 2010, 57, 861-867.	5.2	142
57	A new implantable wireless microsystem to induce micritrion in spinal injury patients. , 2010, , .		1
58	Solid-state microcoolers and thermal energy harvesting microsystems. , 2009, , .		3
59	An energy scavenging microsystem based on thermoelectricity for battery life extension in laptops. , 2009, , .		12
60	Manufacturing technology for flexible optical sensing foils. , 2009, , .		2
61	RF microsystems for wireless sensors networks. , 2009, , .		2
62	Improved p- and n-type thin-film microstructures for thermoelectricity. Electronics Letters, 2009, 45, 803.	0.5	15
63	Low-power/low-voltage RF microsystems for wireless sensors networks. Microelectronics Journal, 2009, 40, 1746-1754.	1.1	9
64	A thin-film rechargeable battery for integration in stand-alone microsystems. Procedia Chemistry, 2009, 1, 453-456.	0.7	7
65	A 3.4-mW 2.4-GHz frequency synthesizer in 0.18 µm CMOS. , 2009, , .		2
66	Special issues and methods for testing LNAs at high frequencies. , 2009, , .		0
67	Integrated thin-film rechargeable battery in a thermoelectric scavenging microsystem. , 2009, , .		9
68	A 4.2 mW 5.7-GHz frequency synthesizer with dynamic-logic (TSPC) frequency divider. , 2009, , .		5
69	Effects of the ESD protections in the behavior of a 2.4 GHz RF transceiver: Problems and solutions. , 2008, , .		3
70	Analysis and development of a localization system based on Radio Frequency. , 2008, , .		0
71	A 2.4-GHz wireless sensor network for smart electronic shirts integration. , 2007, , .		3
72	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

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73	Low-power 2.4-GHz RF transceiver for wireless EEG module plug-and-play. , 2006, , .		5
74	5.7GHz on-chip antenna/RF CMOS transceiver for wireless sensor networks. Sensors and Actuators A: Physical, 2006, 132, 47-51.	2.0	20
75	<title>2.4 GHz wireless sensor network for smart electronic shirts</title>. , 2005, , .		8