

# Emanuele Cardillo

## List of Publications by Year in descending order

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44  
papers

531  
citations

759055

12  
h-index

752573

20  
g-index

44  
all docs

44  
docs citations

44  
times ranked

331  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Electromagnetic Sensor Prototype to Assist Visually Impaired and Blind People in Autonomous Walking. IEEE Sensors Journal, 2018, 18, 2568-2576.	2.4	55
2	Vital Sign Detection and Radar Self-Motion Cancellation Through Clutter Identification. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1932-1942.	2.9	53
3	A Review on Biomedical MIMO Radars for Vital Sign Detection and Human Localization. Electronics (Switzerland), 2020, 9, 1497.	1.8	42
4	Insight on Electronic Travel Aids for Visually Impaired People: A Review on the Electromagnetic Technology. Electronics (Switzerland), 2019, 8, 1281.	1.8	32
5	Radar Range-Breathing Separation for the Automatic Detection of Humans in Cluttered Environments. IEEE Sensors Journal, 2021, 21, 14043-14050.	2.4	30
6	Millimeter-Wave Radar Cane: A Blind People Aid With Moving Human Recognition Capabilities. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2022, 6, 204-211.	2.3	28
7	Feasibility Study to Preserve the Health of an Industry 4.0 Worker: a Radar System for Monitoring the Sitting-Time. , 2019, , .		25
8	Microwave effects of UV light exposure of a GaN HEMT: Measurements and model extraction. Microelectronics Reliability, 2016, 65, 310-317.	0.9	20
9	Head Motion and Eyes Blinking Detection: a mm-Wave Radar for Assisting People with Neurodegenerative Disorders. , 2021, , .		20
10	Empowering Blind People Mobility: A Millimeter-Wave Radar Cane. , 2020, , .		19
11	Embedded heating, ventilation, and air-conditioning control systems: From traditional technologies toward radar advanced sensing. Review of Scientific Instruments, 2021, 92, 061501.	0.6	18
12	A feasibility study of a compact radar system for autonomous walking of blind people. , 2016, , .		17
13	Automotive Anti-Abandon Systems: a Millimeter-Wave Radar Sensor for the Detection of Child Presence. , 2019, , .		17
14	A novel approach for crosstalk minimisation in frequency modulated continuous wave radars. Electronics Letters, 2017, 53, 1379-1381.	0.5	16
15	An Accurate Experimental Investigation of an Optical Sensing Microwave Amplifier. IEEE Sensors Journal, 2018, 18, 9214-9221.	2.4	14
16	Comparative analysis of microwave low-noise amplifiers under laser illumination. Microwave and Optical Technology Letters, 2016, 58, 2437-2443.	0.9	12
17	Light activation of noise at microwave frequencies: a study on scaled gallium arsenide HEMT's. IET Circuits, Devices and Systems, 2018, 12, 242-248.	0.9	12
18	Microwave noise parameter modeling of a GaAs HEMT under optical illumination. Microwave and Optical Technology Letters, 2016, 58, 151-154.	0.9	11

#	ARTICLE	IF	CITATIONS
19	Light Exposure Effects on the DC Kink of AlGaIn/GaN HEMTs. Electronics (Switzerland), 2019, 8, 698.	1.8	11
20	Heating, Ventilation, and Air Conditioning Control by Range-Doppler and Micro-Doppler Radar Sensor. , 2022, , .		10
21	Optical control of gain amplifiers at microwave frequencies. , 2017, , .		8
22	Equivalentâ€œcircuitâ€œbased modeling of the scattering and noise parameters for multiâ€œfinger GaAs pHEMTs. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2020, 33, e2587.	1.2	7
23	Radar-Based Monitoring of the Worker Activities by Exploiting Range-Doppler and Micro-Doppler Signatures. , 2021, , .		7
24	A study on dynamic threshold for the crosstalk reduction in frequency-modulated radars. , 2017, , .		6
25	Dual-Conversion Microwave Down Converter for Nanosatellite Electronic Warfare Systems. Applied Sciences (Switzerland), 2022, 12, 1524.	1.3	6
26	Systematic experimental analysis of an optical sensing microwave lowâ€œnoise amplifier. IET Microwaves, Antennas and Propagation, 2019, 13, 2678-2681.	0.7	5
27	On the microwave noise figure measurement: A virtual approach for mismatched devices. Measurement: Journal of the International Measurement Confederation, 2019, 137, 116-121.	2.5	4
28	Microwave Linear Characterization Procedures of On-Wafer Scaled GaAs pHEMTs for Low-Noise Applications. Electronics (Switzerland), 2019, 8, 1365.	1.8	4
29	Device Noise Parameters Characterization: Towards Extraction Automation.. , 2020, , .		4
30	Portable Knee Health Monitoring System by Impedance Spectroscopy Based on Audio-Board. Electronics (Switzerland), 2021, 10, 460.	1.8	4
31	Performance analysis of a microwave low-noise amplifier under laser illumination. , 2015, , .		3
32	Cross-Laboratory Experimental Validation of a Tunerless Technique for the Microwave Noise Parameters Extraction. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1733-1739.	2.9	3
33	Portable and Highly Versatile Impedance Meter for Very Low Frequency Measurements. Applied Sciences (Switzerland), 2021, 11, 8234.	1.3	3
34	A Two-Channel DFT Spectrum Analyzer for Fluctuation Enhanced Sensing Based on a PC Audio Board. Sensors, 2021, 21, 4307.	2.1	2
35	A Low-Cost Smart Microwave Radar for Short Range Measurements. Lecture Notes in Electrical Engineering, 2019, , 41-47.	0.3	2
36	A Virtual Test-Bench for Noise Figure Measurements of Mismatched Devices. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
37	Flexible CAD methodology for UWB filter with a tailored notch. , 2015, , .		0
38	A new methodology to estimate E-band pHEMT linearity optimum load from low microwave frequency load pull measurements. , 2015, , .		0
39	Inverse modeling of an AlGaAs/GaAs HEMT from DC and microwave measurements. , 2015, , .		0
40	A straight-line equation for the notch tailoring of a microwave extra wideband filter. Journal of Electromagnetic Waves and Applications, 2016, 30, 2099-2109.	1.0	0
41	Wave approach to noise modeling of scaled on-wafer GaAs HEMTs. , 2017, , .		0
42	A Laser Beam for Boosting the Power Added Efficiency of an X-Band GaN MMIC Amplifier. , 2019, , .		0
43	Noise performance of an AlGaN/GaN monolithic microwave integrated circuit (MMIC) low-noise amplifier under laser exposure. IET Microwaves, Antennas and Propagation, 2020, 14, 409-413.	0.7	0
44	Optical sensitivity of HEMT-based devices and low-noise amplifiers. International Journal of Electronics, 2021, 108, 361-377.	0.9	0