

# Ramon Villarino

## List of Publications by Year in descending order

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36  
papers

1,480  
citations

394421

19  
h-index

477307

29  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1360  
citing authors

#	ARTICLE	IF	CITATIONS
1	ANALYSIS OF VITAL SIGNS MONITORING USING AN IR-UWB RADAR. Progress in Electromagnetics Research, 2010, 100, 265-284.	4.4	311
2	Passive Wireless Temperature Sensor Based on Time-Coded UWB Chipless RFID Tags. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3623-3632.	4.6	134
3	Techniques for Clutter Suppression in the Presence of Body Movements during the Detection of Respiratory Activity through UWB Radars. Sensors, 2014, 14, 2595-2618.	3.8	120
4	A Survey of NFC Sensors Based on Energy Harvesting for IoT Applications. Sensors, 2018, 18, 3746.	3.8	83
5	Frequency-Coded Chipless RFID Tag Based on Dual-Band Resonators. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 126-128.	4.0	82
6	Wireless Wearable Magnetometer-Based Sensor for Sleep Quality Monitoring. IEEE Sensors Journal, 2018, 18, 2145-2152.	4.7	73
7	Remote Sensing of Vital Signs Using a Doppler Radar and Diversity to Overcome Null Detection. IEEE Sensors Journal, 2012, 12, 512-518.	4.7	64
8	Chipless Dielectric Constant Sensor for Structural Health Testing. IEEE Sensors Journal, 2018, 18, 5576-5585.	4.7	55
9	Wireless Breathing Sensor Based on Wearable Modulated Frequency Selective Surface. IEEE Sensors Journal, 2017, 17, 1285-1292.	4.7	51
10	Battery-Less Soil Moisture Measurement System Based on a NFC Device With Energy Harvesting Capability. IEEE Sensors Journal, 2018, 18, 5541-5549.	4.7	48
11	A Depolarizing Chipless RF Label for Dielectric Permittivity Sensing. IEEE Microwave and Wireless Components Letters, 2018, 28, 371-373.	3.2	47
12	Color Measurement and Analysis of Fruit with a Battery-Less NFC Sensor. Sensors, 2019, 19, 1741.	3.8	45
13	Battery-Less NFC Sensor for pH Monitoring. IEEE Access, 2019, 7, 33226-33239.	4.2	36
14	A Novel UWB RFID Tag Using Active Frequency Selective Surface. IEEE Transactions on Antennas and Propagation, 2013, 61, 1155-1165.	5.1	33
15	Modulated Frequency Selective Surfaces for Wearable RFID and Sensor Applications. IEEE Transactions on Antennas and Propagation, 2016, 64, 4447-4456.	5.1	29
16	Study on the Reading of Energy-Harvested Implanted NFC Tags Using Mobile Phones. IEEE Access, 2020, 8, 2200-2221.	4.2	28
17	Seat-Occupancy Detection System and Breathing Rate Monitoring Based on a Low-Cost mm-Wave Radar at 60 GHz. IEEE Access, 2021, 9, 115403-115414.	4.2	26
18	Wireless Concrete Mixture Composition Sensor Based on Time-Coded UWB RFID. IEEE Microwave and Wireless Components Letters, 2015, 25, 681-683.	3.2	22

#	ARTICLE	IF	CITATIONS
19	Smart Face Mask with an Integrated Heat Flux Sensor for Fast and Remote People's Healthcare Monitoring. <i>Sensors</i> , 2021, 21, 7472.	3.8	22
20	Passive Harmonic RFID System for Buried Assets Localization. <i>Sensors</i> , 2018, 18, 3635.	3.8	19
21	Battery-Less Smart Diaper Based on NFC Technology. <i>IEEE Sensors Journal</i> , 2019, 19, 10848-10858.	4.7	19
22	Room-Level Localization System Based on LoRa Backscatters. <i>IEEE Access</i> , 2021, 9, 16004-16018.	4.2	18
23	Passive wireless permittivity sensor based on frequency-coded chipless RFID tags. , 2012, , .		14
24	New Radar Micro-Doppler Tag for Road Safety Based on the Signature of Rotating Backscatters. <i>IEEE Sensors Journal</i> , 2021, 21, 8604-8612.	4.7	14
25	Car2Car Communication Using a Modulated Backscatter and Automotive FMCW Radar. <i>Sensors</i> , 2021, 21, 3656.	3.8	14
26	Spoofing Attacks on FMCW Radars with Low-Cost Backscatter Tags. <i>Sensors</i> , 2022, 22, 2145.	3.8	14
27	Active UWB Reflector for RFID and Wireless Sensor Networks. <i>IEEE Transactions on Antennas and Propagation</i> , 2013, 61, 4767-4774.	5.1	13
28	Feasibility of Backscatter Communication Using LoRAWAN Signals for Deep Implanted Devices and Wearable Applications. <i>Sensors</i> , 2020, 20, 6342.	3.8	13
29	Battery-Less NFC Bicycle Tire Pressure Sensor Based on a Force-Sensing Resistor. <i>IEEE Access</i> , 2021, 9, 103975-103987.	4.2	11
30	Progress in green chipless RFID sensors. , 2017, , .		6
31	Temperature sensor based on frequency-coded chipless RFID tags. <i>Microwave and Optical Technology Letters</i> , 2014, 56, 2411-2415.	1.4	5
32	Design of wireless sensors by using chipless RFID technology. , 2017, , .		4
33	NFC Sensors Based on Energy Harvesting for IoT Applications. , 0, , .		4
34	UWB time-coded RFID sensors: A comparison between passive and semi-passive approaches. , 2013, , .		1
35	Permittivity sensor using chipless time-coded UWB RFID. , 2014, , .		1
36	Non-contact Material Monitoring by Using Depolarizing Chipless RFID Tags. , 2018, , .		1