Cristian Herrojo

List of Publications by Year
in descending order

49 papers	1,232 citations	394421 19 h-index	501196 28 g-index
49 all docs	49 docs citations	49 times ranked	470 citing authors

#	Article	IF	Citations
1	Application of Split Ring Resonator (SRR) Loaded Transmission Lines to the Design of Angular Displacement and Velocity Sensors for Space Applications. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 4450-4460.	4.6	133
2	Chipless-RFID: A Review and Recent Developments. Sensors, 2019, 19, 3385.	3.8	98
3	Near-Field Chipless-RFID System With High Data Capacity for Security and Authentication Applications. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5298-5308.	4.6	78
4	Microwave Encoders for Chipless RFID and Angular Velocity Sensors Based on S-Shaped Split Ring Resonators. IEEE Sensors Journal, 2017, 17, 4805-4813.	4.7	72
5	Near-Field Chipless-RFID System With Erasable/Programmable 40-bit Tags Inkjet Printed on Paper Substrates. IEEE Microwave and Wireless Components Letters, 2018, 28, 272-274.	3.2	68
6	Single-Frequency Amplitude-Modulation Sensor for Dielectric Characterization of Solids and Microfluidics. IEEE Sensors Journal, 2021, 21, 12189-12201.	4.7	61
7	Detecting the Rotation Direction in Contactless Angular Velocity Sensors Implemented With Rotors Loaded With Multiple Chains of Resonators. IEEE Sensors Journal, 2018, 18, 7055-7065.	4.7	60
8	Multistate Multiresonator Spectral Signature Barcodes Implemented by Means of S-Shaped Split Ring Resonators (S-SRRs). IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2341-2352.	4.6	50
9	Very Low-Cost 80-Bit Chipless-RFID Tags Inkjet Printed on Ordinary Paper. Technologies, 2018, 6, 52.	5.1	45
10	Double-Stub Loaded Microstrip Line Reader for Very High Data Density Microwave Encoders. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3527-3536.	4.6	39
11	3-D-Printed High Data-Density Electromagnetic Encoders Based on Permittivity Contrast for Motion Control and Chipless-RFID. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1839-1850.	4.6	37
12	High-Density Microwave Encoders for Motion Control and Near-Field Chipless-RFID. IEEE Sensors Journal, 2019, 19, 3673-3682.	4.7	36
13	Near-field chipless-RFID tags with sequential bit reading implemented in plastic substrates. Journal of Magnetism and Magnetic Materials, 2018, 459, 322-327.	2.3	35
14	Enhancing the Per-Unit-Length Data Density in Near-Field Chipless-RFID Systems With Sequential Bit Reading. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 89-92.	4.0	34
15	Time-Domain-Signature Chipless RFID Tags: Near-Field Chipless-RFID Systems With High Data Capacity. IEEE Microwave Magazine, 2019, 20, 87-101.	0.8	33
16	Spectral signature barcodes based on S-shaped Split Ring Resonators (S-SRRs). EPJ Applied Metamaterials, 2016, 3, 1.	1.5	29
17	Spectral signature barcodes implemented by multi-state multi-resonator circuits for chipless RFID tags. , 2016, , .		28
18	Near-field chipless RFID encoders with sequential bit reading and high data capacity. , 2017, , .		26

#	Article	IF	Citations
19	High data density and capacity in chipless radiofrequency identification (chipless-RFID) tags based on double-chains of S-shaped split ring resonators (S-SRRs). EPJ Applied Metamaterials, 2017, 4, 8.	1.5	23
20	High Data Density Near-Field Chipless-RFID Tags With Synchronous Reading. IEEE Journal of Radio Frequency Identification, 2020, 4, 517-524.	2.3	22
21	Synchronism and Direction Detection in High-Resolution/High-Density Electromagnetic Encoders. IEEE Sensors Journal, 2021, 21, 2873-2882.	4.7	21
22	Time-Domain Signature Barcodes for Chipless-RFID and Sensing Applications. Lecture Notes in Electrical Engineering, 2020, , .	0.4	18
23	Position Sensors for Industrial Applications Based on Electromagnetic Encoders. Sensors, 2021, 21, 2738.	3.8	18
24	Electromagnetic Encoders Screen-Printed on Rubber Belts for Absolute Measurement of Position and Velocity. Sensors, 2022, 22, 2044.	3.8	18
25	Near-Field Chipless Radio-Frequency Identification (RFID) Sensing and Identification System with Switching Reading. Sensors, 2018, 18, 1148.	3.8	17
26	Microwave Encoders with Synchronous Reading and Direction Detection for Motion Control Applications. , 2020, , .		17
27	Programmable Organic Chipless RFID Tags Inkjet Printed on Paper Substrates. Applied Sciences (Switzerland), 2021, 11, 7832.	2.5	15
28	Highly Sensitive Defect Detectors and Comparators Exploiting Port Imbalance in Rat-Race Couplers Loaded With Step-Impedance Open-Ended Transmission Lines. IEEE Sensors Journal, 2021, 21, 26731-26745.	4.7	14
29	An approach for Synchronous Reading of Near-Field Chipless-RFID Tags. , 2019, , .		13
30	3D-Printed All-Dielectric Electromagnetic Encoders with Synchronous Reading for Measuring Displacements and Velocities. Sensors, 2020, 20, 4837.	3.8	13
31	3D-Printed Quasi-Absolute Electromagnetic Encoders for Chipless-RFID and Motion Control Applications. Electronics (Switzerland), 2021, 10, 1154.	3.1	13
32	Electromagnetic Rotary Encoders based on Split Ring Resonators (SRR) Loaded Microstrip Lines. , 2018, , .		12
33	All-dielectric Electromagnetic Encoders based on Permittivity Contrast for Displacement/Velocity Sensors and Chipless-RFID Tags. , 2019, , .		11
34	Chipless-RFID Sensors for Motion Control Applications. , 2020, , .		5
35	A Microwave Microfluidic Reflective-Mode Phase-Variation Sensor. , 2021, , .		5
36	Near-Field Chipless-RFID System Based on Tags Implemented with Organic Inks. , 2019, , .		4

#	Article	IF	Citations
37	Chipless RFID tags based on metamaterial concepts. , 2017, , .		3
38	Stub-Loaded Microstrip Line Loaded with Half-Wavelength Resonators and Application to Near-Field Chipless-RFID. , 2018, , .		3
39	Application of metamaterial concepts to sensors and chipless RFID. Journal of Physics: Conference Series, 2018, 963, 012012.	0.4	2
40	A new paradigm in chipless-RFID: all-dielectric permittivity contrast tags. , 2019, , .		2
41	Microwave Encoders and Application to Near-Field Chipless-RFID: a Review. , 2019, , .		1
42	Application of metamaterial concepts to chipless-RFID. , 2018, , .		0
43	Microwave Rotary Encoders. Lecture Notes in Electrical Engineering, 2020, , 105-134.	0.4	0
44	Strategies for Synchronously Reading Microwave Encoders and Application to Sensors for Motion Control. , 2020, , .		0
45	System Requirements for Industrial Scenarios and Applications. Lecture Notes in Electrical Engineering, 2020, , 77-103.	0.4	0
46	State-of-the-Art in Chipless-RFID Technology. Lecture Notes in Electrical Engineering, 2020, , 1-26.	0.4	0
47	Time-Domain Signature Near-Field Chipless-RFID Systems. Lecture Notes in Electrical Engineering, 2020, , 27-75.	0.4	0
48	Concluding Remarks and Future Prospects. Lecture Notes in Electrical Engineering, 2020, , 135-142.	0.4	0
49	Encoding Strategy to Increase the Data Capacity in Near-Field Chipless-RFID Systems. , 2022, , .		0