

Etienne Perret

List of Publications by Year in descending order

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103
papers

2,917
citations

279798

23
h-index

197818

49
g-index

105
all docs

105
docs citations

105
times ranked

1125
citing authors

#	ARTICLE	IF	CITATIONS
1	Chipless RFID Tag Using Hybrid Coding Technique. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 3356-3364.	4.6	287
2	High-Capacity Chipless RFID Tag Insensitive to the Polarization. IEEE Transactions on Antennas and Propagation, 2012, 60, 4509-4515.	5.1	189
3	A Depolarizing Chipless RFID Tag for Robust Detection and Its FCC Compliant UWB Reading System. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2982-2994.	4.6	186
4	A Fully Printable Chipless RFID Tag With Detuning Correction Technique. IEEE Microwave and Wireless Components Letters, 2012, 22, 209-211.	3.2	157
5	Group-Delay Engineered Noncommensurate Transmission Line All-Pass Network for Analog Signal Processing. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2392-2407.	4.6	139
6	Design of Compact and Auto-Compensated Single-Layer Chipless RFID Tag. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2913-2924.	4.6	132
7	Hold the Chips: Chipless Technology, an Alternative Technique for RFID. IEEE Microwave Magazine, 2013, 14, 56-65.	0.8	120
8	Complex permittivity characterization of benzocyclobutene for terahertz applications. Microelectronic Engineering, 2008, 85, 2276-2281.	2.4	115
9	Toward RCS Magnitude Level Coding for Chipless RFID. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 2315-2325.	4.6	113
10	Design of Chipless RFID Tags Printed on Paper by Flexography. IEEE Transactions on Antennas and Propagation, 2013, 61, 5868-5877.	5.1	99
11	Temporal Separation Detection for Chipless Depolarizing Frequency-Coded RFID. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 2326-2337.	4.6	78
12	A Group-Delay-Based Chipless RFID Humidity Tag Sensor Using Silicon Nanowires. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 729-732.	4.0	76
13	Toward a Reliable Chipless RFID Humidity Sensor Tag Based on Silicon Nanowires. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 2977-2985.	4.6	73
14	A compact chipless RFID tag using polarization diversity for encoding and sensing. , 2012, , .		70
15	Temporal multi-frequency encoding technique for chipless RFID applications. , 2012, , .		51
16	Chipless RFID based on group delay encoding. , 2011, , .		42
17	A compact chipless RFID tag with environment sensing capability. , 2012, , .		32
18	Displacement Sensor Based on Radar Cross-Polarization Measurements. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 955-966.	4.6	32

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19	Design of a chipless RFID sensor for water level detection. , 2012, , .		29
20	Ultrawideband Chipless RFID: Reader Technology From SFCW to IR-UWB. IEEE Microwave Magazine, 2019, 20, 74-88.	0.8	29
21	Terahertz encoding approach for secured chipless radio frequency identification. Applied Optics, 2011, 50, 4648.	2.1	28
22	RCS magnitude coding for chipless RFID based on depolarizing tag. , 2015, , .		28
23	Scale-Changing Technique for the Electromagnetic Modeling of MEMS-Controlled Planar Phase Shifters. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 3594-3601.	4.6	27
24	A Tapered CRLH Interdigital/Stub Leaky-Wave Antenna With Minimized Sidelobe Levels. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1214-1217.	4.0	27
25	Classical RFID Versus Chipless RFID Read Range: Is Linearity a Friend or a Foe?. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4199-4208.	4.6	27
26	Design rules for chipless RFID tags based on multiple scatterers. Annales Des Telecommunications/Annals of Telecommunications, 2013, 68, 361-374.	2.5	25
27	Single-Layer, Flexible, and Depolarizing Chipless RFID Tags. IEEE Access, 2020, 8, 72929-72941.	4.2	25
28	Functionalization and Characterization of Silicon Nanowires for Sensing Applications: A Review. Nanomaterials, 2021, 11, 999.	4.1	25
29	Nafion-Based Fully Passive Solid-State Conductive Bridging RF Switch. IEEE Microwave and Wireless Components Letters, 2017, 27, 1104-1106.	3.2	23
30	Folded Multilayer C-Sections With Large Group Delay Swing for Passive Chipless RFID Applications. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4298-4311.	4.6	21
31	RF Power-Handling Performance for Direct Actuation of Germanium Telluride Switches. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 60-73.	4.6	21
32	Solid-State Conductive-Bridging Reconfigurable RF-Encoding Particle for Chipless RFID Applications. IEEE Microwave and Wireless Components Letters, 2018, 28, 506-508.	3.2	20
33	New RF identification technology for secure applications. , 2010, , .		19
34	Toward Chipless RFID Reading Systems Independent of Tag Orientation. IEEE Microwave and Wireless Components Letters, 2017, 27, 1158-1160.	3.2	18
35	Authentication Using Metallic Inkjet-Printed Chipless RFID Tags. IEEE Transactions on Antennas and Propagation, 2020, 68, 4137-4142.	5.1	18
36	A fully passive RF switch based on nanometric conductive bridge. , 2012, , .		17

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37	Impact of an IR-UWB Reading Approach on Chipless RFID Tag. IEEE Microwave and Wireless Components Letters, 2017, 27, 678-680.	3.2	17
38	Angle Sensor Based on Chipless RFID Tag. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 233-237.	4.0	17
39	Extraction of Aspect-Independent Parameters Using Spectrogram Method for Chipless Frequency-Coded RFID. IEEE Sensors Journal, 2021, 21, 6530-6542.	4.7	16
40	Differential RCS of Modulated Tag. IEEE Transactions on Antennas and Propagation, 2021, 69, 6128-6133.	5.1	16
41	Contactless Characterization of Coplanar Stripline Discontinuities by RCS Measurement. IEEE Transactions on Antennas and Propagation, 2017, 65, 251-257.	5.1	15
42	Combined Temperature and Humidity Chipless RFID Sensor. IEEE Sensors Journal, 2022, 22, 16098-16110.	4.7	14
43	Chipless RFID reading system independent of polarization. , 2016, , .		13
44	Radiated Electromagnetic Emission for Integrated Circuit Authentication. IEEE Microwave and Wireless Components Letters, 2017, 27, 1028-1030.	3.2	13
45	A Chipless RFID Method of 2D Localization Based on Phase Acquisition. Journal of Sensors, 2018, 2018, 1-6.	1.1	13
46	Mastering the Electromagnetic Signature of Chipless RFID Tags. , 0, , 146-174.		13
47	Toward reliable readers for chipless RFID systems. , 2014, , .		12
48	Segmented Solenoid Coil Antenna for UHF RFID Near-Field Reader Applications. IEEE Journal of Radio Frequency Identification, 2018, 2, 210-218.	2.3	12
49	Electronically Re-Configurable, Non-Volatile, Nano-Ionics-Based RF-Switch on Paper Substrate for Chipless RFID Applications. Technologies, 2018, 6, 58.	5.1	12
50	Scale-Changing Technique for the Computation of the Input Impedance of Active Patch Antennas. IEEE Antennas and Wireless Propagation Letters, 2005, 4, 326-328.	4.0	11
51	Group delay modulation for pulse position coding based on periodically coupled C-sections. Annales Des Telecommunications/Annals of Telecommunications, 2013, 68, 447-457.	2.5	11
52	A TEMPORAL MULTI-FREQUENCY ENCODING TECHNIQUE FOR CHIPLESS RFID BASED ON C-SECTIONS. Progress in Electromagnetics Research B, 2013, 49, 107-127.	1.0	11
53	Potential of chipless authentication based on randomness inherent in fabrication process for RF and THz. , 2017, , .		11
54	Wireless Detection of Water Level by Using Spiral Resonators Operating in Sub-GHz Range. , 2019, , .		11

#	ARTICLE	IF	CITATIONS
55	Electronically Rewritable Chipless RFID Tags Fabricated Through Thermal Transfer Printing on Flexible PET Substrates. IEEE Transactions on Antennas and Propagation, 2021, 69, 1908-1921.	5.1	11
56	Chipless RFID Reading Method Insensitive to Tag Orientation. IEEE Transactions on Antennas and Propagation, 2021, 69, 2896-2902.	5.1	11
57	Accurate Positioning System Based on Chipless Technology. Sensors, 2019, 19, 1341.	3.8	10
58	REALIZATION OF A CONDUCTIVE BRIDGING RF SWITCH INTEGRATED ONTO PRINTED CIRCUIT BOARD. Progress in Electromagnetics Research, 2015, 151, 9-16.	4.4	9
59	Permittivity characterization based on Radar Cross measurements. , 2016, , .		9
60	Design of Planar Resonant Scatterer With Roll-Invariant Cross Polarization. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4305-4313.	4.6	9
61	Millimeter Wave Chipless RFID Authentication Based on Spatial Diversity and 2-D Classification Approach. IEEE Transactions on Antennas and Propagation, 2021, 69, 5913-5923.	5.1	9
62	Linear Time-Variant Chipless RFID Sensor. IEEE Journal of Radio Frequency Identification, 2022, 6, 104-111.	2.3	9
63	Chipless RFID tags for passive wireless sensor grids. , 2014, , .		8
64	Gesture recognition with the chipless RFID technology. , 2017, , .		8
65	Chipless RFID Tag Discrimination and the Performance of Resemblance Metrics to be used for it. , 2018, , .		8
66	A New Method of Secure Authentication Based on Electromagnetic Signatures of Chipless RFID Tags and Machine Learning Approaches. Sensors, 2020, 20, 6385.	3.8	8
67	Chipless RFID Temperature and Humidity Sensing. , 2021, , .		8
68	Chipless RFID Based on Micro-Doppler Effect. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 766-778.	4.6	8
69	Detection of Natural Randomness by Chipless RFID Approach and Its Application to Authentication. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3867-3881.	4.6	7
70	Practical Performance Comparison of 1-D and 2-D Decoding Methods for a Chipless RFID System in a Real Environment. IEEE Journal of Radio Frequency Identification, 2020, 4, 532-544.	2.3	7
71	Thermal Modeling of Resonant Scatterers and Reflectometry Approach for Remote Temperature Sensing. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4720-4734.	4.6	7
72	Progress in green chipless RFID sensors. , 2017, , .		6

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73	Towards a robust and efficient EM based authentication of FPGA against counterfeiting and recycling. , 2017, , .		6
74	Ultra-Low-Jitter Fully Tunable Baseband Pulse Generator for UWB Applications. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 420-430.	4.6	6
75	Authentication of Microcontroller Board Using Non-Invasive EM Emission Technique. , 2018, , .		6
76	Contactless Characterization of Metalsâ€™ Thermal Expansion Coefficient by a Free-Space RF Measurement. IEEE Transactions on Antennas and Propagation, 2021, 69, 1230-1234.	5.1	6
77	Chipless RFID Label with Identification and Touch-Sensing Capabilities. Sensors, 2021, 21, 4862.	3.8	6
78	CBRAM technology: transition from a memory cell to a programmable and non-volatile impedance for new radiofrequency applications. Scientific Reports, 2022, 12, 4105.	3.3	6
79	Detection of Minimum Geometrical Variation by Free-Space-Based Chipless Approach and its Application to Authentication. IEEE Microwave and Wireless Components Letters, 2018, 28, 323-325.	3.2	5
80	Practical Comparison of Decoding Methods for Chipless RFID System in Real Environment. , 2019, , .		5
81	Characterization of Chipless RFID Tag in a 3-Dimensional Reading Zone. , 2019, , .		5
82	Cross-Polarization Chipless Tag for Orientation Sensing. , 2021, , .		5
83	N-port network for the electromagnetic modeling of mems switches. Microwave and Optical Technology Letters, 2005, 45, 46-49.	1.4	4
84	Control of the sensitivity of CRLH interdigital microstrip balanced structures using a co-design genetic algorithm approach. Applied Physics A: Materials Science and Processing, 2011, 103, 709-714.	2.3	4
85	Effect of Distance for Chipless RFID Magnitude Coding. IEEE Journal of Radio Frequency Identification, 2019, 3, 77-82.	2.3	4
86	Investigation of integrated solid state nanoâ€™ionic metalâ€™insulatorâ€™metal switches for electronically reconfigurable bandâ€™stop filter applications. IET Microwaves, Antennas and Propagation, 2019, 13, 1963-1968.	1.4	4
87	Video-Rate Identification of High-Capacity Low-Cost Tags in the Terahertz Domain. Sensors, 2021, 21, 3692.	3.8	4
88	Towards Chipless RFID Technology based on Micro-Doppler Effect for Long Range Applications. , 2021, , .		4
89	Consideration to minimize losses in terahertz coplanar waveguide on indium phosphide. Microwave and Optical Technology Letters, 2012, 54, 213-219.	1.4	3
90	Electronically Reconfigurable Dipole Antenna Using Integrated Passive Non-Volatile Solid-State Metal-Insulator-Metal Switches. , 2019, , .		3

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91	Guided Electromagnetic Wave Technique for IC Authentication. <i>Sensors</i> , 2020, 20, 2041.	3.8	3
92	Ray Optics Analysis Explanation of Beam-Splitting Condition in Fabry-Pérot Antennas. <i>IEEE Access</i> , 2018, 6, 32360-32366.	4.2	2
93	Robust and Noninvasive IC Authentication Using Radiated Electromagnetic Emissions. <i>Journal of Hardware and Systems Security</i> , 2019, 3, 273-288.	1.3	2
94	Augmented Depolarizing Scatterer Based on Resonant Elements for Polarimetric Radar Calibration. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 1415-1427.	5.1	2
95	Design of MEMS Controlled Phased Shifter Using SCT. <i>Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium</i> , 2007, 3, 230-232.	0.4	2
96	Comments on "Development of Cross-Polar Orientation-Insensitive Chipless RFID Tags". <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 3922-3923.	5.1	2
97	Identification in the Terahertz Domain using Low Cost Tags with a Fast Spectrometer. , 2018, , .		1
98	Electronically Re-Writable Chipless RFID Tag Using Solid State Metal-Insulator-Metal Switches on Paper Substrate. , 2019, , .		1
99	Identification of random internal structuring THz tags using images correlation and SIWPD analysis. , 2019, , .		1
100	Non-Volatile Conductive-Bridging Metal-Insulator-Metal Switches for Rewritable "RF Barcodes". , 2019, , .		1
101	Notes on the Extraction of Aspect-Independent Parameters of Chipless RFID Tags. , 2021, , .		1
102	A Simple RCS Calibration Approach For Depolarizing Chipless RFID Tags. , 2021, , .		1
103	Chipless labels detection by backscattering for identification and sensing applications. <i>Comptes Rendus Physique</i> , 2021, 22, 51-71.	0.9	1