

Javier Mata-Contreras

List of Publications by Year in descending order

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51
papers

2,249
citations

236925

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all docs

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docs citations

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times ranked

1079
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential-Mode to Common-Mode Conversion Detector Based on Rat-Race Hybrid Couplers: Analysis and Application to Differential Sensors and Comparators. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1312-1325.	4.6	45
2	Microwave Rotary Encoders. Lecture Notes in Electrical Engineering, 2020, , 105-134.	0.4	0
3	System Requirements for Industrial Scenarios and Applications. Lecture Notes in Electrical Engineering, 2020, , 77-103.	0.4	0
4	State-of-the-Art in Chipless-RFID Technology. Lecture Notes in Electrical Engineering, 2020, , 1-26.	0.4	0
5	Time-Domain Signature Near-Field Chipless-RFID Systems. Lecture Notes in Electrical Engineering, 2020, , 27-75.	0.4	0
6	Concluding Remarks and Future Prospects. Lecture Notes in Electrical Engineering, 2020, , 135-142.	0.4	0
7	Chipless-RFID: A Review and Recent Developments. Sensors, 2019, 19, 3385.	3.8	98
8	Differential Microfluidic Sensors Based on Dumbbell-Shaped Defect Ground Structures in Microstrip Technology: Analysis, Optimization, and Applications. Sensors, 2019, 19, 3189.	3.8	46
9	All-dielectric Electromagnetic Encoders based on Permittivity Contrast for Displacement/Velocity Sensors and Chipless-RFID Tags. , 2019, , .		11
10	High-Density Microwave Encoders for Motion Control and Near-Field Chipless-RFID. IEEE Sensors Journal, 2019, 19, 3673-3682.	4.7	36
11	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
12	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
13	Split Ring Resonator-Based Microwave Fluidic Sensors for Electrolyte Concentration Measurements. IEEE Sensors Journal, 2019, 19, 2562-2569.	4.7	146
14	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
15	Stub-Loaded Microstrip Line Loaded with Half-Wavelength Resonators and Application to Near-Field Chipless-RFID. , 2018, , .		3
16	Solute Concentration Measurements in Diluted Solutions by Means of Split Ring Resonators. , 2018, , .		13
17	Near-Field Chipless Radio-Frequency Identification (RFID) Sensing and Identification System with Switching Reading. Sensors, 2018, 18, 1148.	3.8	17
18	Electromagnetic Rotary Encoders based on Split Ring Resonators (SRR) Loaded Microstrip Lines. , 2018, , .		12

#	ARTICLE	IF	CITATIONS
19	Detecting the Rotation Direction in Contactless Angular Velocity Sensors Implemented With Rotors Loaded With Multiple Chains of Resonators. <i>IEEE Sensors Journal</i> , 2018, 18, 7055-7065.	4.7	60
20	Analytical Method to Estimate the Complex Permittivity of Oil Samples. <i>Sensors</i> , 2018, 18, 984.	3.8	131
21	Very Low-Cost 80-Bit Chipless-RFID Tags Inkjet Printed on Ordinary Paper. <i>Technologies</i> , 2018, 6, 52.	5.1	45
22	Highly-Sensitive Microwave Sensors Based on Open Complementary Split Ring Resonators (OCSRRs) for Dielectric Characterization and Solute Concentration Measurement in Liquids. <i>IEEE Access</i> , 2018, 6, 48324-48338.	4.2	149
23	Application of metamaterial concepts to chipless-RFID. , 2018, , .		0
24	Application of Split Ring Resonator (SRR) Loaded Transmission Lines to the Design of Angular Displacement and Velocity Sensors for Space Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017, 65, 4450-4460.	4.6	133
25	Microwave Encoders for Chipless RFID and Angular Velocity Sensors Based on S-Shaped Split Ring Resonators. <i>IEEE Sensors Journal</i> , 2017, 17, 4805-4813.	4.7	72
26	Microwave sensors based on symmetry properties and metamaterial concepts: A review of some recent developments (Invited paper). , 2017, , .		2
27	Multistate Multiresonator Spectral Signature Barcodes Implemented by Means of S-Shaped Split Ring Resonators (S-SRRs). <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017, 65, 2341-2352.	4.6	50
28	Near-Field Chipless-RFID System With High Data Capacity for Security and Authentication Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017, 65, 5298-5308.	4.6	78
29	Microwave Microfluidic Sensor Based on a Microstrip Splitter/Combiner Configuration and Split Ring Resonators (SRRs) for Dielectric Characterization of Liquids. <i>IEEE Sensors Journal</i> , 2017, 17, 6589-6598.	4.7	275
30	Near-field chipless RFID encoders with sequential bit reading and high data capacity. , 2017, , .		26
31	Estimation of the complex permittivity of liquids by means of complementary split ring resonator (CSRR) loaded transmission lines. , 2017, , .		29
32	A Review of Sensing Strategies for Microwave Sensors Based on Metamaterial-Inspired Resonators: Dielectric Characterization, Displacement, and Angular Velocity Measurements for Health Diagnosis, Telecommunication, and Space Applications. <i>International Journal of Antennas and Propagation</i> , 2017, 1-13.	1.2	35
33	High data density and capacity in chipless radiofrequency identification (chipless-RFID) tags based on double-chains of S-shaped split ring resonators (S-SRRs). <i>EPJ Applied Metamaterials</i> , 2017, 4, 8.	1.5	23
34	Estimation of conductive losses in complementary split ring resonator (CSRR) loading an embedded microstrip line and applications. , 2017, , .		11
35	Miniature Microwave Notch Filters and Comparators Based on Transmission Lines Loaded with Stepped Impedance Resonators (SIRs). <i>Micromachines</i> , 2016, 7, 1.	2.9	37
36	Configurations of Splitter/Combiner Microstrip Sections Loaded with Stepped Impedance Resonators (SIRs) for Sensing Applications. <i>Sensors</i> , 2016, 16, 2195.	3.8	44

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37	Enhancing common-mode suppression in microstrip differential lines by means of chirped and multi-tuned electromagnetic bandgaps. Microwave and Optical Technology Letters, 2016, 58, 328-332.	1.4	9
38	Cascaded splitter/combiner microstrip sections loaded with complementary split ring resonators (CSRRs): Modeling, analysis and applications. , 2016, , .		10
39	Splitter/Combiner Microstrip Sections Loaded With Pairs of Complementary Split Ring Resonators (CSRRs): Modeling and Optimization for Differential Sensing Applications. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4362-4370.	4.6	149
40	Transmission Lines Loaded With Pairs of Stepped Impedance Resonators: Modeling and Application to Differential Permittivity Measurements. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3864-3877.	4.6	94
41	Modeling and Applications of Metamaterial Transmission Lines Loaded With Pairs of Coupled Complementary Split-Ring Resonators (CSRRs). IEEE Antennas and Wireless Propagation Letters, 2016, 15, 154-157.	4.0	83
42	Ultra-Compact (80 <math>\mu\text{m}</math>) T-junctions (Notation="TeX">\${h	4.6	30
43	(UWB) Bandpass Filters With Common-Mode Noise Suppression. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1272-1280.		7
44	Transmission line metamaterials based on pairs of coupled split ring resonators (SRRs) and complementary split ring resonators (CSRR): A comparison to the light of the lumped element equivalent circuits. , 2015, , .		58
45	Modeling Metamaterial Transmission Lines Loaded With Pairs of Coupled Split-Ring Resonators. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 68-71.	4.0	2
46	Ultra-wideband (UWB) balanced bandpass filters with wide stop band and intrinsic common-mode rejection based on embedded capacitive electromagnetic bandgaps (EBG). , 2014, , .		7
47	Design and Experimental Performance of Diplexing MMIC Distributed Amplifier. IEEE Microwave and Wireless Components Letters, 2013, 23, 365-367.	3.2	6
48	Active GaN MMIC diplexer based on distributed amplification concept. Microwave and Optical Technology Letters, 2013, 55, 1041-1045.	1.4	2
49	Diplexing dual-gate FET distributed mixer. Electronics Letters, 2012, 48, 381.	1.0	2
50	Diplexing distributed amplifier with improved isolation. Electronics Letters, 2011, 47, 922.	1.0	13
51	Active Distributed Mixers Based on Composite Right/Left-Handed Transmission Lines. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 1091-1101.	4.6	15
	Experimental performance of a meta-distributed amplifier. , 2007, , .		