Jonathan MuÃ±oz-Enano

List of Publications by Year
in descending order

36	997	394421	552781
papers	citations	19	26
		h-index	g-index

36	36	36	344
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Split Ring Resonator-Based Microwave Fluidic Sensors for Electrolyte Concentration Measurements. IEEE Sensors Journal, 2019, 19, 2562-2569.	4.7	146
2	Planar Microwave Resonant Sensors: A Review and Recent Developments. Applied Sciences (Switzerland), 2020, 10, 2615.	2.5	67
3	Single-Frequency Amplitude-Modulation Sensor for Dielectric Characterization of Solids and Microfluidics. IEEE Sensors Journal, 2021, 21, 12189-12201.	4.7	61
4	Differential Sensor Based on Electroinductive Wave Transmission Lines for Dielectric Constant Measurements and Defect Detection. IEEE Transactions on Antennas and Propagation, 2020, 68, 1876-1886.	5.1	58
5	An Analytical Method to Implement High-Sensitivity Transmission Line Differential Sensors for Dielectric Constant Measurements. IEEE Sensors Journal, 2020, 20, 178-184.	4.7	58
6	Highly Sensitive Phase-Variation Dielectric Constant Sensor Based on a Capacitively-Loaded Slow-Wave Transmission Line. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 2787-2799.	5.4	54
7	On the Sensitivity of Reflective-Mode Phase-Variation Sensors Based on Open-Ended Stepped-Impedance Transmission Lines: Theoretical Analysis and Experimental Validation. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 308-324.	4.6	52
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	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
10	Highly Sensitive Reflective-Mode Phase-Variation Permittivity Sensor Based on a Coplanar Waveguide Terminated With an Open Complementary Split Ring Resonator (OCSRR). IEEE Access, 2021, 9, 27928-27944.	4.2	42
11	Highly Sensitive Phase Variation Sensors Based on Step-Impedance Coplanar Waveguide (CPW) Transmission Lines. IEEE Sensors Journal, 2021, 21, 2864-2872.	4.7	36
12	A Reflective-Mode Phase-Variation Displacement Sensor. IEEE Access, 2020, 8, 189565-189575.	4.2	34
13	Phase-Variation Microwave Sensor for Permittivity Measurements Based on a High-Impedance Half-Wavelength Transmission Line. IEEE Sensors Journal, 2021, 21, 10647-10656.	4.7	33
14	Microfluidic reflective-mode differential sensor based on open split ring resonators (OSRRs). International Journal of Microwave and Wireless Technologies, 2020, 12, 588-597.	1.9	30
15	Highly Sensitive Reflective-Mode Defect Detectors and Dielectric Constant Sensors Based on Open-Ended Stepped-Impedance Transmission Lines. Sensors, 2020, 20, 6236.	3.8	24
16	Frequency-Variation Sensors for Permittivity Measurements Based on Dumbbell-Shaped Defect Ground Structures (DB-DGS): Analytical Method and Sensitivity Analysis. IEEE Sensors Journal, 2022, 22, 9378-9386.	4.7	24
17	Differential Sensing Based on Quasi-Microstrip Mode to Slot-Mode Conversion. IEEE Microwave and Wireless Components Letters, 2019, 29, 690-692.	3.2	22
18	Circuit Analysis of a Coplanar Waveguide (CPW) Terminated With a Step-Impedance Resonator (SIR) for Highly Sensitive One-Port Permittivity Sensing. IEEE Access, 2022, 10, 62597-62612.	4.2	21

#	Article	IF	Citations
19	Capacitively-Loaded Slow-Wave Transmission Lines for Sensitivity Improvement in Phase-Variation Permittivity Sensors. , 2021, , .		20
20	Planar Phase-Variation Microwave Sensors for Material Characterization: A Review and Comparison of Various Approaches. Sensors, 2021, 21, 1542.	3.8	20
21	Characterization of electrolyte content in urine samples through a differential microfluidic sensor based on dumbbell-shaped defected ground structures. International Journal of Microwave and Wireless Technologies, 2020, 12, 817-824.	1.9	15
22	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
23	Parametric Analysis of the Edge Capacitance of Uniform Slots and Application to Frequency-Variation Permittivity Sensors. Applied Sciences (Switzerland), 2021, 11, 7000.	2.5	13
24	On the Modeling of Microstrip Lines Loaded With Dumbbell Defect-Ground-Structure (DB-DGS) and Folded DB-DGS Resonators. IEEE Access, 2021, 9, 150878-150888.	4.2	13
25	Electrolyte Concentration Measurements in DI Water with 0.125 g/L Resolution by means of CSRR-Based Structures. , 2019, , .		7
26	Step Impedance Resonator (SIR) Loaded with Complementary Split Ring Resonator (CSRR): Modeling, Analysis and Applications. , 2020, , .		7
27	Characterization of the Denaturation of Bovine Serum Albumin (BSA) Protein by Means of a Differential-Mode Microwave Microfluidic Sensor Based on Slot Resonators. IEEE Sensors Journal, 2022, 22, 14075-14083.	4.7	7
28	Signal Balancing in Unbalanced Transmission Lines. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3339-3349.	4.6	6
29	Open-Ended-Line Reflective-Mode Phase-Variation Sensors for Dielectric Constant Measurements. , 2020, , .		5
30	A Microwave Microfluidic Reflective-Mode Phase-Variation Sensor. , 2021, , .		5
31	Discussion and Analysis of Dumbbell Defect-Ground-Structure (DB-DGS) Resonators for Sensing Applications from a Circuit Theory Perspective. Sensors, 2021, 21, 8334.	3.8	5
32	On the Sensitivity of Microwave Sensors based on Slot Resonators and Frequency Variation. , 2019, , .		4
33	Microstrip Lines Loaded with Metamaterial-Inspired Resonators for Microwave Sensors/Comparators with Optimized Sensitivity. , 2019, , .		3
34	Permittivity Sensor Based on a Slow-Wave Artificial Transmission Line. , 2020, , .		0
35	Differential Microfluidic Sensors based on Electroinductive-Wave (EIW) Transmission Lines. , 2020, , .		0
36	On the Capacitance of Slotted Metamaterial Resonators for Frequency-Variation Permittivity Sensing. , 2022, , .		0