Ferran Martin

List of Publications by Year
in descending order

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388 papers	14,846 citations	23567 58 h-index	25787 108 g-index

407 all docs	407 docs citations	407 times ranked	4940 citing authors

#	Article	IF	Citations
1	Equivalent-circuit models for split-ring resonators and complementary split-ring resonators coupled to planar transmission lines. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1451-1461.	4.6	1,303
2	Babinet Principle Applied to the Design of Metasurfaces and Metamaterials. Physical Review Letters, 2004, 93, 197401.	7.8	784
3	Effective negative-/spl epsiv/ stopband microstrip lines based on complementary split ring resonators. IEEE Microwave and Wireless Components Letters, 2004, 14, 280-282.	3.2	678
4	Split ring resonator-based left-handed coplanar waveguide. Applied Physics Letters, 2003, 83, 4652-4654.	3.3	353
5	Microwave Microfluidic Sensor Based on a Microstrip Splitter/Combiner Configuration and Split Ring Resonators (SRRs) for Dielectric Characterization of Liquids. IEEE Sensors Journal, 2017, 17, 6589-6598.	4.7	275
6	Novel microstrip bandpass filters based on complementary split-ring resonators. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 265-271.	4.6	263
7	On the breakdown statistics of very thin SiO2 films. Thin Solid Films, 1990, 185, 347-362.	1.8	238
8	Miniaturized coplanar waveguide stop band filters based on multiple tuned split ring resonators. IEEE Microwave and Wireless Components Letters, 2003, 13, 511-513.	3.2	218
9	On the electrical characteristics of complementary metamaterial resonators. IEEE Microwave and Wireless Components Letters, 2006, 16, 543-545.	3.2	218
10	Novel Sensors Based on the Symmetry Properties of Split Ring Resonators (SRRs). Sensors, 2011, 11, 7545-7553.	3.8	191
11	Transmission Lines Loaded With Bisymmetric Resonators and Their Application to Angular Displacement and Velocity Sensors. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4700-4713.	4.6	177
12	Spurious passband suppression in microstrip coupled line band pass filters by means of split ring resonators. IEEE Microwave and Wireless Components Letters, 2004, 14, 416-418.	3.2	171
13	Microwave filters with improved stopband based on sub-wavelength resonators. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1997-2006.	4.6	171
14	Application of Electromagnetic Bandgaps to the Design of Ultra-Wide Bandpass Filters With Good Out-of-Band Performance. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 4136-4140.	4.6	157
15	Tunable metamaterial transmission lines based on varactor-loaded split-ring resonators. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 2665-2674.	4.6	152
16	Composite Right/Left-Handed Metamaterial Transmission Lines Based on Complementary Split-Rings Resonators and Their Applications to Very Wideband and Compact Filter Design. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1296-1304.	4.6	152
17	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
18	Highly-Sensitive Microwave Sensors Based on Open Complementary Split Ring Resonators (OCSRRs) for Dielectric Characterization and Solute Concentration Measurement in Liquids. IEEE Access, 2018, 6, 48324-48338.	4.2	149

#	Article	IF	Citations
19	Twoâ€dimensional displacement and alignment sensor based on reflection coefficients of open microstrip lines loaded with split ring resonators. Electronics Letters, 2014, 50, 620-622.	1.0	146
20	Split Ring Resonator-Based Microwave Fluidic Sensors for Electrolyte Concentration Measurements. IEEE Sensors Journal, 2019, 19, 2562-2569.	4.7	146
21	Common-Mode Suppression in Microstrip Differential Lines by Means of Complementary Split Ring Resonators: Theory and Applications. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3023-3034.	4.6	143
22	Varactor-loaded split ring resonators for tunable notch filters at microwave frequencies. Electronics Letters, 2004, 40, 1347.	1.0	136
23	Alignment and Position Sensors Based on Split Ring Resonators. Sensors, 2012, 12, 11790-11797.	3.8	134
24	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
25	Angular Displacement and Velocity Sensors Based on Electric-LC (ELC) Loaded Microstrip Lines. IEEE Sensors Journal, 2014, 14, 939-940.	4.7	131
26	Two-dimensional alignment and displacement sensor based on movable broadside-coupled split ring resonators. Sensors and Actuators A: Physical, 2014, 210, 18-24.	4.1	131
27	Analytical Method to Estimate the Complex Permittivity of Oil Samples. Sensors, 2018, 18, 984.	3.8	131
28	Metamaterial filters: A review. Metamaterials, 2008, 2, 186-197.	2.2	127
29	Reconfigurable and Tunable S-Shaped Split-Ring Resonators and Application in Band-Notched UWB Antennas. IEEE Transactions on Antennas and Propagation, 2016, 64, 3766-3776.	5.1	121
30	Open Complementary Split Ring Resonators (OCSRRs) and Their Application to Wideband CPW Band Pass Filters. IEEE Microwave and Wireless Components Letters, 2009, 19, 197-199.	3.2	120
31	A new LC series element for compact bandpass filter design. IEEE Microwave and Wireless Components Letters, 2004, 14, 210-212.	3.2	111
32	Angular Displacement and Velocity Sensors Based on Coplanar Waveguides (CPWs) Loaded with S-Shaped Split Ring Resonators (S-SRR). Sensors, 2015, 15, 9628-9650.	3.8	110
33	Microstrip "wiggly-line" bandpass filters with multispurious rejection. IEEE Microwave and Wireless Components Letters, 2004, 14, 531-533.	3.2	108
34	Chipless-RFID: A Review and Recent Developments. Sensors, 2019, 19, 3385.	3.8	98
35	Ultra-wideband and broad-angle linear polarization conversion metasurface. Journal of Applied Physics, 2017, 121, 174902.	2.5	96
36	Modeling Split-Ring Resonator (SRR) and Complementary Split-Ring Resonator (CSRR) Loaded Transmission Lines Exhibiting Cross-Polarization Effects. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 178-181.	4.0	95

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37	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
38	Broadband Resonant-Type Metamaterial Transmission Lines. IEEE Microwave and Wireless Components Letters, 2007, 17, 97-99.	3.2	92
39	Miniaturized microstrip and CPW filters using coupled metamaterial resonators. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 2628-2635.	4.6	91
40	Planar magnetoinductive wave transducers: Theory and applications. Applied Physics Letters, 2004, 85, 4439.	3.3	88
41	Left handed coplanar waveguide band pass filters based on bi-layer split ring resonators. IEEE Microwave and Wireless Components Letters, 2004, 14, 10-12.	3.2	86
42	Application of Composite Right/Left Handed (CRLH) Transmission Lines based on Complementary Split Ring Resonators (CSRRs) to the Design of Dual-Band Microwave Components. IEEE Microwave and Wireless Components Letters, 2008, 18, 524-526.	3.2	84
43	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
44	Multiband Printed Monopole Antennas Loaded With OCSRRs for PANs and WLANs. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1528-1531.	4.0	80
45	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
46	Applications of Open Split Ring Resonators and Open Complementary Split Ring Resonators to the Synthesis of Artificial Transmission Lines and Microwave Passive Components. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 3395-3403.	4.6	77
47	Varactor-Loaded Complementary Split Ring Resonators (VLCSRR) and Their Application to Tunable Metamaterial Transmission Lines. IEEE Microwave and Wireless Components Letters, 2008, 18, 28-30.	3.2	76
48	Complementary split ring resonators for microstrip diplexer design. Electronics Letters, 2005, 41, 810.	1.0	74
49	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
50	Coplanar waveguide structures loaded with split-ring resonators. Microwave and Optical Technology Letters, 2004, 40, 3-6.	1.4	69
51	Tunable stop-band filter at Q-band based on RF-MEMS metamaterials. Electronics Letters, 2007, 43, 1153.	1.0	68
52	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
53	Characterization of miniaturized metamaterial resonators coupled to planar transmission lines through parameter extraction. Journal of Applied Physics, 2008, 104, 114501.	2.5	67
54	Planar Microwave Resonant Sensors: A Review and Recent Developments. Applied Sciences (Switzerland), 2020, 10, 2615.	2.5	67

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55	Application of complementary split-ring resonators to the design of compact narrow band-pass structures in microstrip technology. Microwave and Optical Technology Letters, 2005, 46, 508-512.	1.4	64
56	Differential Bandpass Filter With Common-Mode Suppression Based on Open Split Ring Resonators and Open Complementary Split Ring Resonators. IEEE Microwave and Wireless Components Letters, 2013, 23, 22-24.	3.2	62
57	Single-Frequency Amplitude-Modulation Sensor for Dielectric Characterization of Solids and Microfluidics. IEEE Sensors Journal, 2021, 21, 12189-12201.	4.7	61
58	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
59	Miniaturisation of planar microwave circuits by using resonant-type left-handed transmission lines. IET Microwaves, Antennas and Propagation, 2007, 1, 73.	1.4	59
60	Printed Magnetoinductive-Wave (MIW) Delay Lines for Chipless RFID Applications. IEEE Transactions on Antennas and Propagation, 2012, 60, 5075-5082.	5.1	59
61	Modeling Metamaterial Transmission Lines Loaded With Pairs of Coupled Split-Ring Resonators. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 68-71.	4.0	58
62	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
63	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
64	Dual-Band Impedance-Matching Networks Based on Split-Ring Resonators for Applications in RF Identification (RFID). IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1159-1166.	4.6	56
65	Electrically Small Resonators for Planar Metamaterial, Microwave Circuit and Antenna Design: A Comparative Analysis. Applied Sciences (Switzerland), 2012, 2, 375-395.	2.5	56
66	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
67	Implications of the noncrossing property of Bohm trajectories in one-dimensional tunneling configurations. Physical Review A, 1996, 54, 2594-2604.	2.5	53
68	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
69	Applications of resonantâ€type metamaterial transmission lines to the design of enhanced bandwidth components with compact dimensions. Microwave and Optical Technology Letters, 2008, 50, 127-134.	1.4	50
70	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
71	S-Shaped Complementary Split Ring Resonators and Their Application to Compact Differential Bandpass Filters With Common-Mode Suppression. IEEE Microwave and Wireless Components Letters, 2014, 24, 149-151.	3.2	49
72	Rotation Sensor Based on the Cross-Polarized Excitation of Split Ring Resonators (SRRs). IEEE Sensors Journal, 2020, 20, 9706-9714.	4.7	47

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73	Split Ring Resonators (SRRs) Based on Micro-Electro-Mechanical Deflectable Cantilever-Type Rings: Application to Tunable Stopband Filters. IEEE Microwave and Wireless Components Letters, 2011, 21, 243-245.	3.2	46
74	Differential Microfluidic Sensors Based on Dumbbell-Shaped Defect Ground Structures in Microstrip Technology: Analysis, Optimization, and Applications. Sensors, 2019, 19, 3189.	3.8	46
75	Very Low-Cost 80-Bit Chipless-RFID Tags Inkjet Printed on Ordinary Paper. Technologies, 2018, 6, 52.	5.1	45
76	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
77	Ultra wide band pass filters (UWBPF) based on complementary split rings resonators. Microwave and Optical Technology Letters, 2005, 46, 283-286.	1.4	44
78	Configurations of Splitter/Combiner Microstrip Sections Loaded with Stepped Impedance Resonators (SIRs) for Sensing Applications. Sensors, 2016, 16, 2195.	3.8	44
79	Dual electromagnetic bandgap CPW structures for filter applications. IEEE Microwave and Wireless Components Letters, 2003, 13, 393-395.	3.2	42
80	Microstrip bandpass filters with wide bandwidth and compact dimensions. Microwave and Optical Technology Letters, 2005, 46, 343-346.	1.4	42
81	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
82	Dual-Band UHF-RFID Tags Based on Meander-Line Antennas Loaded With Spiral Resonators. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 768-771.	4.0	41
83	Design and Synthesis Methodology for UHF-RFID Tags Based on the T-Match Network. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4090-4098.	4.6	41
84	Analysis of the Split Ring Resonator (SRR) Antenna Applied to Passive UHF-RFID Tag Design. IEEE Transactions on Antennas and Propagation, 2016, 64, 856-864.	5.1	41
85	Transmission lines loaded with pairs of magnetically coupled stepped impedance resonators (SIRs): Modeling and application to microwave sensors. , 2014, , .		40
86	Automated Design of Common-Mode Suppressed Balanced Wideband Bandpass Filters by Means of Aggressive Space Mapping. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 3896-3908.	4.6	40
87	Comparison of electromagnetic band gap and split-ring resonator microstrip lines as stop band structures. Microwave and Optical Technology Letters, 2005, 44, 376-379.	1.4	39
88	Electrically tunable split-ring resonators at microwave frequencies based on barium-strontium-titanate thick films. Electronics Letters, 2009, 45, 417.	1.0	39
89	Planar Multi-Band Microwave Components Based on the Generalized Composite Right/Left Handed Transmission Line Concept. IEEE Transactions on Microwave Theory and Techniques, 2010, , .	4.6	39
90	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

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91	DUAL-BAND DIFFERENTIAL FILTER USING BROADBAND COMMON-MODE REJECTION ARTIFICIAL TRANSMISSION LINE. Progress in Electromagnetics Research, 2013, 139, 779-797.	4.4	38
92	Design of Capacitively Loaded Coupled-Line Bandpass Filters With Compact Size and Spurious Suppression. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1235-1248.	4.6	38
93	Miniature Microwave Notch Filters and Comparators Based on Transmission Lines Loaded with Stepped Impedance Resonators (SIRs). Micromachines, 2016, 7, 1.	2.9	37
94	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
95	High-Density Microwave Encoders for Motion Control and Near-Field Chipless-RFID. IEEE Sensors Journal, 2019, 19, 3673-3682.	4.7	36
96	Highly Sensitive Phase Variation Sensors Based on Step-Impedance Coplanar Waveguide (CPW) Transmission Lines. IEEE Sensors Journal, 2021, 21, 2864-2872.	4.7	36
97	Coplanar Waveguides Loaded with S-Shaped Split-Ring Resonators: Modeling and Application to Compact Microwave Filters. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1349-1352.	4.0	35
98	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. International Journal of Antennas and Propagation, 2017, 2017, 1-13.	1.2	35
99	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
100	Fundamental-Mode Leaky-Wave Antenna (LWA) Using Slotline and Split-Ring-Resonator (SRR)-Based Metamaterials. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1424-1427.	4.0	34
101	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
102	A Reflective-Mode Phase-Variation Displacement Sensor. IEEE Access, 2020, 8, 189565-189575.	4.2	34
103	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
104	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
105	Stepped-impedance lowpass filters with spurious passband suppression. Electronics Letters, 2004, 40, 881.	1.0	32
106	Complementary split-ring resonator for compact waveguide filter design. Microwave and Optical Technology Letters, 2005, 46, 88-92.	1.4	32
107	Parametric analysis of microstrip lines loaded with complementary split ring resonators. Microwave and Optical Technology Letters, 2008, 50, 2093-2096.	1.4	31
108	New periodic-loaded electromagnetic bandgap coplanar waveguide with complete spurious passband suppression. IEEE Microwave and Wireless Components Letters, 2002, 12, 435-437.	3.2	30

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109	Design of Wide-Band Semi-Lumped Bandpass Filters Using Open Split Ring Resonators. IEEE Microwave and Wireless Components Letters, 2007, 17, 28-30.	3.2	30
110	Synthesis and applications of new left handed microstrip lines with complementary split-ring resonators etched on the signal strip. IET Microwaves, Antennas and Propagation, 2008, 2, 324-330.	1.4	30
111	Ultra-Compact (80 <formula formulatype="inline"> <tex) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 672 Td (Notation="Te (UWB) Bandpass Filters With Common-Mode Noise Suppression. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1272-1280.	4.6	30
112	Application of broadside-coupled split ring resonator (BC-SRR) loaded transmission lines to the design of rotary encoders for space applications. , 2016, , .		30
113	Forward and backward leaky wave radiation in split-ring-resonator-based metamaterials. IET Microwaves, Antennas and Propagation, 2007, 1, 65.	1.4	29
114	Recent Advances in Metamaterial Transmission Lines Based on Split Rings. Proceedings of the IEEE, 2011, 99, 1701-1710.	21.3	29
115	Spectral signature barcodes based on S-shaped Split Ring Resonators (S-SRRs). EPJ Applied Metamaterials, 2016, 3, 1.	1.5	29
116	Estimation of the complex permittivity of liquids by means of complementary split ring resonator (CSRR) loaded transmission lines. , 2017, , .		29
117	Stop-band and band-pass characteristics in coplanar waveguides coupled to spiral resonators. Microwave and Optical Technology Letters, 2004, 42, 386-388.	1.4	28
118	Implementation of shunt-connected series resonators through stepped-impedance shunt stubs: analysis and limitations. IET Microwaves, Antennas and Propagation, 2011, 5, 1336.	1.4	28
119	Design of Planar Wideband Bandpass Filters From Specifications Using a Two-Step Aggressive Space Mapping (ASM) Optimization Algorithm. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 3341-3350.	4.6	28
120	Microwave Sensors Based on Symmetry Properties of Resonator-Loaded Transmission Lines. Journal of Sensors, 2015, 2015, 1-10.	1.1	28
121	Spectral signature barcodes implemented by multi-state multi-resonator circuits for chipless RFID tags. , 2016, , .		28
122	Compact lowpass filters with very sharp transition bands based on open complementary split ring resonators. Electronics Letters, 2009, 45, 316.	1.0	27
123	Compact Wideband Balanced Bandpass Filters With Very Broad Common-Mode and Differential-Mode Stopbands. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 737-750.	4.6	27
124	Application of metamaterial transmission lines to design of quadrature phase shifters. Electronics Letters, 2007, 43, 1098.	1.0	26
125	On the symmetry properties of coplanar waveguides loaded with symmetric resonators: Analysis and potential applications. , 2012, , .		26
126	Near-field chipless RFID encoders with sequential bit reading and high data capacity. , 2017, , .		26

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127	Strategies for the miniaturization of metamaterial resonators. Microwave and Optical Technology Letters, 2008, 50, 1263-1270.	1.4	25
128	Elliptic-Function CPW Low-Pass Filters Implemented by Means of Open Complementary Split Ring Resonators (OCSRRs). IEEE Microwave and Wireless Components Letters, 2009, 19, 689-691.	3.2	25
129	Differential Microstrip Lines With Common-Mode Suppression Based on Electromagnetic Band-Gaps (EBGs). IEEE Antennas and Wireless Propagation Letters, 2015, 14, 40-43.	4.0	25
130	The Beauty of Symmetry: Common-Mode Rejection Filters for High-Speed Interconnects and Band Microwave Circuits. IEEE Microwave Magazine, 2017, 18, 42-55.	0.8	24
131	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
132	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
133	Dualâ€band printed dipole antenna loaded with open complementary splitâ€ring resonators for wireless applications. Microwave and Optical Technology Letters, 2012, 54, 1014-1017.	1.4	23
134	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
135	Compact Balanced-to-Balanced Diplexer Based on Split-Ring Resonators Balanced Bandpass Filters. IEEE Microwave and Wireless Components Letters, 2018, 28, 218-220.	3.2	23
136	Branch Line Couplers With Small Size and Harmonic Suppression Based on Non-Periodic Step Impedance Shunt Stub (SISS) Loaded Lines. IEEE Access, 2020, 8, 67310-67320.	4.2	23
137	Metamaterial transmission lines based on broad-side coupled spiral resonators. Electronics Letters, 2007, 43, 530.	1.0	22
138	Tunable coplanar waveguide band-stop and band-pass filters based on open split ring resonators and open complementary split ring resonators. IET Microwaves, Antennas and Propagation, 2011, 5, 277.	1.4	22
139	Onâ€metal UHFâ€RFID passive tags based on complementary splitâ€ring resonators. IET Microwaves, Antennas and Propagation, 2017, 11, 1040-1044.	1.4	22
140	Balanced-to-Balanced Microstrip Diplexer Based on Magnetically Coupled Resonators. IEEE Access, 2018, 6, 18536-18547.	4.2	22
141	Differential Sensing Based on Quasi-Microstrip Mode to Slot-Mode Conversion. IEEE Microwave and Wireless Components Letters, 2019, 29, 690-692.	3.2	22
142	High Data Density Near-Field Chipless-RFID Tags With Synchronous Reading. IEEE Journal of Radio Frequency Identification, 2020, 4, 517-524.	2.3	22
143	Synchronism and Direction Detection in High-Resolution/High-Density Electromagnetic Encoders. IEEE Sensors Journal, 2021, 21, 2873-2882.	4.7	21
144	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

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145	Nondestructive multiple breakdown events in very thin SiO2films. Applied Physics Letters, 1989, 55, 128-130.	3.3	20
146	Soft Breakdown in Ultrathin SiO2Layers: the Conduction Problem from a New Point of View. Japanese Journal of Applied Physics, 1999, 38, 2223-2226.	1.5	20
147	Compact Rat-Race Hybrid Coupler Implemented Through Artificial Left Handed and Right Handed Lines. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	20
148	Generalized Model for Multiband Metamaterial Transmission Lines. IEEE Microwave and Wireless Components Letters, 2008, 18, 728-730.	3.2	20
149	Multimode Propagation and Complex Waves in CSRR-Based Transmission-Line Metamaterials. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1024-1027.	4.0	20
150	On the Radiation Properties of Split-Ring Resonators (SRRs) at the Second Resonance. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2133-2141.	4.6	20
151	Planar Phase-Variation Microwave Sensors for Material Characterization: A Review and Comparison of Various Approaches. Sensors, 2021, 21, 1542.	3.8	20
152	Analytical solitons in nonlinear transmission lines loaded with heterostructure barrier varactors. Journal of Applied Physics, 2001, 90, 2595-2600.	2.5	19
153	Novel microstrip backward coupler with metamaterial cells for fully planar fabrication techniques. Microwave and Optical Technology Letters, 2006, 48, 1205-1209.	1.4	19
154	Compact microstrip band-pass filters based on semi-lumped resonators. IET Microwaves, Antennas and Propagation, 2007, 1, 932.	1.4	19
155	Microwave Sensors Based on Resonant Elements. Sensors, 2020, 20, 3375.	3.8	19
156	High-pass Filters Implemented by Composite Right/Left Handed (CRLH) Transmission Lines Based on Complementary Split Rings Resonators (CSRRs). Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2007, 3, 251-253.	0.4	19
157	Approach to study the noise properties in nanoscale electronic devices. Applied Physics Letters, 2001, 79, 1703-1705.	3.3	18
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