

Ferran Martin

List of Publications by Year in descending order

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388
papers

14,846
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27035

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all docs

407
docs citations

407
times ranked

5540
citing authors

#	ARTICLE	IF	CITATIONS
1	Embroidered Textile Frequency-Splitting Sensor Based on Stepped-Impedance Resonators. IEEE Sensors Journal, 2022, 22, 8596-8603.	2.4	13
2	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.	2.4	24
3	Electromagnetic Encoders Screen-Printed on Rubber Belts for Absolute Measurement of Position and Velocity. Sensors, 2022, 22, 2044.	2.1	18
4	Tunable phase shifters using composite inductive-capacitive loaded slow-wave transmission lines. AEU - International Journal of Electronics and Communications, 2022, 148, 154155.	1.7	2
5	Encoding Strategy to Increase the Data Capacity in Near-Field Chipless-RFID Systems. , 2022, , .		0
6	On the Capacitance of Slotted Metamaterial Resonators for Frequency-Variation Permittivity Sensing. , 2022, , .		0
7	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.	2.4	7
8	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.	2.6	21
9	Strategies to Enhance the Data Density in Synchronous Electromagnetic Encoders. Sensors, 2022, 22, 4356.	2.1	3
10	Synchronism and Direction Detection in High-Resolution/High-Density Electromagnetic Encoders. IEEE Sensors Journal, 2021, 21, 2873-2882.	2.4	21
11	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.	2.9	52
12	Highly Sensitive Phase Variation Sensors Based on Step-Impedance Coplanar Waveguide (CPW) Transmission Lines. IEEE Sensors Journal, 2021, 21, 2864-2872.	2.4	36
13	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.	2.6	42
14	Design of a Differential Coupled-Line Directional Coupler Using a Double-Side Coplanar Waveguide Structure With Common-Signal Suppression. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1273-1281.	2.9	9
15	Planar Phase-Variation Microwave Sensors for Material Characterization: A Review and Comparison of Various Approaches. Sensors, 2021, 21, 1542.	2.1	20
16	Position Sensors for Industrial Applications Based on Electromagnetic Encoders. Sensors, 2021, 21, 2738.	2.1	18
17	3D-Printed Quasi-Absolute Electromagnetic Encoders for Chipless-RFID and Motion Control Applications. Electronics (Switzerland), 2021, 10, 1154.	1.8	13
18	Phase-Variation Microwave Sensor for Permittivity Measurements Based on a High-Impedance Half-Wavelength Transmission Line. IEEE Sensors Journal, 2021, 21, 10647-10656.	2.4	33

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19	Parametric Analysis of the Edge Capacitance of Uniform Slots and Application to Frequency-Variation Permittivity Sensors. Applied Sciences (Switzerland), 2021, 11, 7000.	1.3	13
20	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.	3.5	54
21	Programmable Organic Chipless RFID Tags Inkjet Printed on Paper Substrates. Applied Sciences (Switzerland), 2021, 11, 7832.	1.3	15
22	Single-Frequency Amplitude-Modulation Sensor for Dielectric Characterization of Solids and Microfluidics. IEEE Sensors Journal, 2021, 21, 12189-12201.	2.4	61
23	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.	2.4	14
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.	2.6	13
25	A Microwave Microfluidic Reflective-Mode Phase-Variation Sensor. , 2021, , .		5
26	Discussion and Analysis of Dumbbell Defect-Ground-Structure (DB-DGS) Resonators for Sensing Applications from a Circuit Theory Perspective. Sensors, 2021, 21, 8334.	2.1	5
27	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.	3.1	58
28	An Analytical Method to Implement High-Sensitivity Transmission Line Differential Sensors for Dielectric Constant Measurements. IEEE Sensors Journal, 2020, 20, 178-184.	2.4	58
29	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.	2.9	45
30	2D rotary sensor based on magnetic composite of microrods. Journal of Materials Science: Materials in Electronics, 2020, 31, 167-174.	1.1	11
31	Highly Sensitive Reflective-Mode Defect Detectors and Dielectric Constant Sensors Based on Open-Ended Stepped-Impedance Transmission Lines. Sensors, 2020, 20, 6236.	2.1	24
32	Microwave Encoders with Synchronous Reading and Direction Detection for Motion Control Applications. , 2020, , .		17
33	A Reflective-Mode Phase-Variation Displacement Sensor. IEEE Access, 2020, 8, 189565-189575.	2.6	34
34	3D-Printed All-Dielectric Electromagnetic Encoders with Synchronous Reading for Measuring Displacements and Velocities. Sensors, 2020, 20, 4837.	2.1	13
35	Open-Ended-Line Reflective-Mode Phase-Variation Sensors for Dielectric Constant Measurements. , 2020, , .		5
36	High Data Density Near-Field Chipless-RFID Tags With Synchronous Reading. IEEE Journal of Radio Frequency Identification, 2020, 4, 517-524.	1.5	22

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37	Microwave Sensors Based on Resonant Elements. <i>Sensors</i> , 2020, 20, 3375.	2.1	19
38	A pneumatically tunable, conformal, and polarization-independent electromagnetic absorber. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 13362-13367.	1.1	0
39	Time-Domain Signature Barcodes for Chipless-RFID and Sensing Applications. <i>Lecture Notes in Electrical Engineering</i> , 2020, , .	0.3	18
40	3-D-Printed High Data-Density Electromagnetic Encoders Based on Permittivity Contrast for Motion Control and Chipless-RFID. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020, 68, 1839-1850.	2.9	37
41	Branch Line Couplers With Small Size and Harmonic Suppression Based on Non-Periodic Step Impedance Shunt Stub (SISS) Loaded Lines. <i>IEEE Access</i> , 2020, 8, 67310-67320.	2.6	23
42	Rotation Sensor Based on the Cross-Polarized Excitation of Split Ring Resonators (SRRs). <i>IEEE Sensors Journal</i> , 2020, 20, 9706-9714.	2.4	47
43	Planar Microwave Resonant Sensors: A Review and Recent Developments. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2615.	1.3	67
44	Microwave Rotary Encoders. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 105-134.	0.3	0
45	Chipless-RFID Sensors for Motion Control Applications. , 2020, , .		5
46	Strategies for Synchronously Reading Microwave Encoders and Application to Sensors for Motion Control. , 2020, , .		0
47	System Requirements for Industrial Scenarios and Applications. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 77-103.	0.3	0
48	State-of-the-Art in Chipless-RFID Technology. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 1-26.	0.3	0
49	Time-Domain Signature Near-Field Chipless-RFID Systems. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 27-75.	0.3	0
50	Concluding Remarks and Future Prospects. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 135-142.	0.3	0
51	Double-Stub Loaded Microstrip Line Reader for Very High Data Density Microwave Encoders. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019, 67, 3527-3536.	2.9	39
52	Signal Balancing in Unbalanced Transmission Lines. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019, 67, 3339-3349.	2.9	6
53	Miniaturised and harmonic-suppressed rat couplers based on slow-wave transmission lines. <i>IET Microwaves, Antennas and Propagation</i> , 2019, 13, 1293-1299.	0.7	15
54	Chipless-RFID: A Review and Recent Developments. <i>Sensors</i> , 2019, 19, 3385.	2.1	98

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55	Differential Microfluidic Sensors Based on Dumbbell-Shaped Defect Ground Structures in Microstrip Technology: Analysis, Optimization, and Applications. <i>Sensors</i> , 2019, 19, 3189.	2.1	46
56	Differential Sensing Based on Quasi-Microstrip Mode to Slot-Mode Conversion. <i>IEEE Microwave and Wireless Components Letters</i> , 2019, 29, 690-692.	2.0	22
57	A new paradigm in chipless-RFID: all-dielectric permittivity contrast tags. , 2019, , .		2
58	Microwave Encoders and Application to Near-Field Chipless-RFID: a Review. , 2019, , .		1
59	On the Applications of S-Shaped Split Ring Resonators (S-SRR) in Sensors, Filters, and Antennas. , 2019, , .		4
60	Detection Modalities of Displacement Sensors Based on Split Ring Resonators: Pros and Cons. , 2019, , .		18
61	All-dielectric Electromagnetic Encoders based on Permittivity Contrast for Displacement/Velocity Sensors and Chipless-RFID Tags. , 2019, , .		11
62	High-Density Microwave Encoders for Motion Control and Near-Field Chipless-RFID. <i>IEEE Sensors Journal</i> , 2019, 19, 3673-3682.	2.4	36
63	Compact balanced dual-band bandpass filter with magnetically coupled embedded resonators. <i>IET Microwaves, Antennas and Propagation</i> , 2019, 13, 492-497.	0.7	13
64	Reactively-loaded non-periodic slow-wave artificial transmission lines for stop band bandwidth enhancement: application to power splitters. <i>International Journal of Microwave and Wireless Technologies</i> , 2019, 11, 475-481.	1.5	6
65	Parametric Testing of Metasurface Stirrers for Metasurfaced Reverberation Chambers. <i>Sensors</i> , 2019, 19, 976.	2.1	2
66	Near-Field Chipless-RFID System Based on Tags Implemented with Organic Inks. , 2019, , .		4
67	On the Sensitivity of Microwave Sensors based on Slot Resonators and Frequency Variation. , 2019, , .		4
68	An approach for Synchronous Reading of Near-Field Chipless-RFID Tags. , 2019, , .		13
69	Reactively-Loaded EBG Transmission Lines with Periodicity Truncation for Improvement of the Stop Band Performance. , 2019, , .		0
70	Time-Domain-Signature Chipless RFID Tags: Near-Field Chipless-RFID Systems With High Data Capacity. <i>IEEE Microwave Magazine</i> , 2019, 20, 87-101.	0.7	33
71	Electrolyte Concentration Measurements in DI Water with 0.125 g/L Resolution by means of CSRR-Based Structures. , 2019, , .		7
72	Enhancing the Per-Unit-Length Data Density in Near-Field Chipless-RFID Systems With Sequential Bit Reading. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 89-92.	2.4	34

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73	Split Ring Resonator-Based Microwave Fluidic Sensors for Electrolyte Concentration Measurements. IEEE Sensors Journal, 2019, 19, 2562-2569.	2.4	146
74	Compact coplanar waveguide power splitter with filtering capability based on slow-wave structures. Microwave and Optical Technology Letters, 2019, 61, 1143-1148.	0.9	4
75	Compact Balanced-to-Balanced Diplexer Based on Split-Ring Resonators Balanced Bandpass Filters. IEEE Microwave and Wireless Components Letters, 2018, 28, 218-220.	2.0	23
76	Interference Sources in Congested Environments and its Effects in UHF-RFID Systems: A Review. IEEE Journal of Radio Frequency Identification, 2018, 2, 1-8.	1.5	11
77	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.	2.0	68
78	Upper Bounds on the Bandwidth of Electrically Small Single-Resonant UHF-RFID Tags. IEEE Transactions on Antennas and Propagation, 2018, 66, 2101-2106.	3.1	2
79	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.	2.9	27
80	Broadband UHF-RFID Passive Tag Based on Split-Ring Resonator (SRR) and T-Match Network. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 517-520.	2.4	12
81	Metasurfaced Reverberation Chamber. Scientific Reports, 2018, 8, 1577.	1.6	6
82	Slow-wave coplanar waveguides based on inductive and capacitive loading and application to compact and harmonic suppressed power splitters. International Journal of Microwave and Wireless Technologies, 2018, 10, 530-537.	1.5	10
83	Compact power splitter with harmonic suppression based on inductively loaded slow-wave transmission lines. Microwave and Optical Technology Letters, 2018, 60, 1464-1468.	0.9	9
84	Balanced-to-Balanced Microstrip Diplexer Based on Magnetically Coupled Resonators. IEEE Access, 2018, 6, 18536-18547.	2.6	22
85	Near-field chipless-RFID tags with sequential bit reading implemented in plastic substrates. Journal of Magnetism and Magnetic Materials, 2018, 459, 322-327.	1.0	35
86	Stub-Loaded Microstrip Line Loaded with Half-Wavelength Resonators and Application to Near-Field Chipless-RFID. , 2018, , .		3
87	Enhancing the Number of Modes in Metasurfaced Reverberation Chambers for Field Uniformity Improvement. Sensors, 2018, 18, 3301.	2.1	6
88	Solute Concentration Measurements in Diluted Solutions by Means of Split Ring Resonators. , 2018, , .		13
89	A Novel Design Strategy for Small On-Metal UHF-RFID Tags with Long Read Range based on Complementary Split-Ring Resonator (CSRR). , 2018, , .		3
90	Slow-Wave Artificial Transmission Lines based on Stepped Impedance Shunt Stub (SISS) Loading: Analysis and Stopband Bandwidth Enhancement. , 2018, , .		3

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91	Near-Field Chipless Radio-Frequency Identification (RFID) Sensing and Identification System with Switching Reading. <i>Sensors</i> , 2018, 18, 1148.	2.1	17
92	Electromagnetic Rotary Encoders based on Split Ring Resonators (SRR) Loaded Microstrip Lines. , 2018, , .		12
93	A compact split-ring resonator using spiral technique for UHF RFID tag. , 2018, , .		3
94	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.	2.4	60
95	Analytical Method to Estimate the Complex Permittivity of Oil Samples. <i>Sensors</i> , 2018, 18, 984.	2.1	131
96	Very Low-Cost 80-Bit Chipless-RFID Tags Inkjet Printed on Ordinary Paper. <i>Technologies</i> , 2018, 6, 52.	3.0	45
97	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.	2.6	149
98	Application of metamaterial concepts to chipless-RFID. , 2018, , .		0
99	Automated design of bandpass filters based on open complementary split ring resonators (<sc>OCSRRs</sc>) using aggressive space mapping (ASM) optimization. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2017, 30, e2121.	1.2	4
100	Design of Capacitively Loaded Coupled-Line Bandpass Filters With Compact Size and Spurious Suppression. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017, 65, 1235-1248.	2.9	38
101	Ultra-wideband and broad-angle linear polarization conversion metasurface. <i>Journal of Applied Physics</i> , 2017, 121, 174902.	1.1	96
102	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.	2.9	133
103	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.	2.4	72
104	Microwave sensors based on symmetry properties and metamaterial concepts: A review of some recent developments (Invited paper). , 2017, , .		2
105	Onâ€metal UHFâ€RFID passive tags based on complementary splitâ€ring resonators. <i>IET Microwaves, Antennas and Propagation</i> , 2017, 11, 1040-1044.	0.7	22
106	Compact design of UHF RFID and NFC antennas for mobile phones. <i>IET Microwaves, Antennas and Propagation</i> , 2017, 11, 1016-1019.	0.7	4
107	Reducing the width of planar Yagi-Uda antennas using square-shaped split ring resonators (SRRs). , 2017, , .		0
108	EBC-based transmission lines with slow-wave characteristics and application to miniaturization of microwave components. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	14

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109	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.	2.9	50
110	The Beauty of Symmetry: Common-Mode Rejection Filters for High-Speed Interconnects and Band Microwave Circuits. IEEE Microwave Magazine, 2017, 18, 42-55.	0.7	24
111	Size reduction and harmonic suppression in branch line couplers implemented by means of capacitively loaded slow-wave transmission lines. Microwave and Optical Technology Letters, 2017, 59, 2822-2830.	0.9	17
112	Application of electromagnetic bandgaps based on capacitively-loaded lines to the reduction of size and suppression of harmonic bands in microwave devices. , 2017, , .		5
113	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.	2.9	78
114	Microwave Sensors Based on Symmetry Properties and Metamaterial Concepts. World Scientific Series in Nanoscience and Nanotechnology, 2017, , 499-535.	0.1	0
115	Optimized wideband differential-mode bandpass filters with broad stopband and common-mode suppression based on multi-section stepped impedance resonators and interdigital capacitors. , 2017, , .		4
116	Planar Yagi-Uda Antenna Array Based on Split-Ring Resonators (SRRs). IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1233-1236.	2.4	12
117	Reconfigurable System for Wireless Power Transfer (WPT) and Near Field Communications (NFC). IEEE Journal of Radio Frequency Identification, 2017, 1, 253-259.	1.5	15
118	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.	2.4	275
119	Near-field chipless RFID encoders with sequential bit reading and high data capacity. , 2017, , .		26
120	Planar fan-beam reflective array antenna based on non-bianisotropic complementary split-ring resonators (NB-CSRRs). , 2017, , .		2
121	Modeling and analysis of pairs of open complementary split ring resonators (OCSRRs) for differential permittivity sensing. , 2017, , .		17
122	Robust optimization and tuning of microwave filters and artificial transmission lines using aggressive space mapping techniques. , 2017, , .		9
123	Estimation of the complex permittivity of liquids by means of complementary split ring resonator (CSRR) loaded transmission lines. , 2017, , .		29
124	Compact and spurious free microwave devices based on electromagnetic bandgap structures. , 2017, , .		0
125	High miniaturization potential of slow-wave transmission lines based on simultaneous inductor and capacitor loading. , 2017, , .		10
126	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.	0.7	35

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127	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.	0.8	23
128	Estimation of conductive losses in complementary split ring resonator (CSRR) loading an embedded microstrip line and applications. , 2017, , .		11
129	Miniature Microwave Notch Filters and Comparators Based on Transmission Lines Loaded with Stepped Impedance Resonators (SIRs). Micromachines, 2016, 7, 1.	1.4	37
130	A High-Gain Passive UHF-RFID Tag with Increased Read Range. Sensors, 2016, 16, 1150.	2.1	8
131	Configurations of Splitter/Combiner Microstrip Sections Loaded with Stepped Impedance Resonators (SIRs) for Sensing Applications. Sensors, 2016, 16, 2195.	2.1	44
132	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.	0.9	9
133	Coplanar waveguides loaded with symmetric and asymmetric multisection stepped impedance resonators: Modeling and potential applications. Microwave and Optical Technology Letters, 2016, 58, 722-726.	0.9	2
134	Recent advances in the design of compact microwave components based on reactively-loaded transmission lines. , 2016, , .		0
135	Controlling the Electromagnetic Field Confinement with Metamaterials. Scientific Reports, 2016, 6, 37739.	1.6	9
136	Passive UHF-RFID tag based on electrically small square-shaped split ring resonator (SRR) antenna. , 2016, , .		7
137	Slow-wave inductively-loaded electromagnetic bandgap (EBG) coplanar waveguide (CPW) transmission lines and application to compact power dividers. , 2016, , .		16
138	Coplanar waveguides loaded with symmetric and asymmetric pairs of slotted stepped impedance resonators: Modeling, applications, and comparison to SIR-loaded CPWS. Microwave and Optical Technology Letters, 2016, 58, 2741-2745.	0.9	0
139	Cascaded splitter/combiner microstrip sections loaded with complementary split ring resonators (CSRRs): Modeling, analysis and applications. , 2016, , .		10
140	Size reduction and spurious suppression in microstrip coupled line bandpass filters by means of capacitive electromagnetic bandgaps. , 2016, , .		15
141	Spectral signature barcodes implemented by multi-state multi-resonator circuits for chipless RFID tags. , 2016, , .		28
142	Automated design of balanced wideband bandpass filters based on mirrored stepped impedance resonators (SIRs) and interdigital capacitors. International Journal of Microwave and Wireless Technologies, 2016, 8, 731-740.	1.5	7
143	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.	2.9	149
144	Slow wave EBG-based transmission lines and applications. , 2016, , .		0

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145	Application of broadside-coupled split ring resonator (BC-SRR) loaded transmission lines to the design of rotary encoders for space applications. , 2016, , .		30
146	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.	2.9	94
147	Spectral signature barcodes based on S-shaped Split Ring Resonators (S-SRRs). EPJ Applied Metamaterials, 2016, 3, 1.	0.8	29
148	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.	3.1	121
149	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.	2.4	83
150	2-SR-based electrically small antenna for RFID applications. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	4
151	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.	3.1	41
152	Unattended Design of Wideband Planar Filters Using a Two-Step Aggressive Space Mapping (ASM) Optimization Algorithm. Springer Proceedings in Mathematics and Statistics, 2016, , 135-159.	0.1	0
153	Application of aggressive space mapping (ASM) to the automated design of differential-mode wideband bandpass filters with common-mode suppression. , 2015, , .		1
154	Synthesis of slow-wave structures based on capacitive-loaded lines through aggressive space mapping (ASM). International Journal of RF and Microwave Computer-Aided Engineering, 2015, 25, 629-638.	0.8	18
155	Symmetry-Related Electromagnetic Properties of Resonator-Loaded Transmission Lines and Applications. Applied Sciences (Switzerland), 2015, 5, 88-113.	1.3	2
156	Microwave Sensors Based on Symmetry Properties of Resonator-Loaded Transmission Lines. Journal of Sensors, 2015, 2015, 1-10.	0.6	28
157	Recent Advances in the Modeling of Transmission Lines Loaded with Split Ring Resonators. International Journal of Antennas and Propagation, 2015, 2015, 1-13.	0.7	10
158	Quasi-isotropic electrically small antennas for UHF-RFID passive tags based on 2-turns spiral resonators. , 2015, , .		0
159	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.	2.9	40
160	Design of printed antennas based on electrically small resonators for microwave applications. , 2015, , .		0
161	Dual-band epsilon-negative (ENG) transmission line metamaterials based on microstrip lines loaded with pairs of coupled complementary split ring resonators (CSRRs): Modeling, analysis and applications. , 2015, , .		7
162	Ultra-Compact (80 <math>\lambda</math>) (UWB) Bandpass Filters With Common-Mode Noise Suppression. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1272-1280.	2.9	30

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163	Analysis of transmission lines loaded with pairs of coupled resonant elements and application to sensors. Journal of Magnetism and Magnetic Materials, 2015, 383, 144-151.	1.0	6
164	Front-to-back ratio improvement of printed antennas based on electrically small resonators for microwave presence detectors. Electronics Letters, 2015, 51, 836-837.	0.5	4
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