

# Francisco Falcone

## List of Publications by Year in descending order

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427  
papers

10,618  
citations

57631

44  
h-index

45213

90  
g-index

436  
all docs

436  
docs citations

436  
times ranked

6035  
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.	2.9	1,303
2	Babinet Principle Applied to the Design of Metasurfaces and Metamaterials. Physical Review Letters, 2004, 93, 197401.	2.9	784
3	Effective negative- $\epsilon$ stopband microstrip lines based on complementary split ring resonators. IEEE Microwave and Wireless Components Letters, 2004, 14, 280-282.	2.0	678
4	Smart health: A context-aware health paradigm within smart cities. , 2014, 52, 74-81.		463
5	Split ring resonator-based left-handed coplanar waveguide. Applied Physics Letters, 2003, 83, 4652-4654.	1.5	353
6	A Comprehensive Survey on "Various Decoupling Mechanisms With Focus on Metamaterial and Metasurface Principles Applicable to SAR and MIMO Antenna Systems" IEEE Access, 2020, 8, 192965-193004.	2.6	244
7	Miniaturized coplanar waveguide stop band filters based on multiple tuned split ring resonators. IEEE Microwave and Wireless Components Letters, 2003, 13, 511-513.	2.0	218
8	A Comprehensive Survey of "Metamaterial Transmission-Line Based Antennas: Design, Challenges, and Applications" IEEE Access, 2020, 8, 144778-144808.	2.6	202
9	A Review of IoT Sensing Applications and Challenges Using RFID and Wireless Sensor Networks. Sensors, 2020, 20, 2495.	2.1	198
10	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.	2.0	171
11	Microwave filters with improved stopband based on sub-wavelength resonators. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1997-2006.	2.9	171
12	Broadband spoof plasmons and subwavelength electromagnetic energy confinement on ultrathin metafilms. Optics Express, 2009, 17, 18184.	1.7	134
13	Study on isolation improvement between closely-packed patch antenna arrays based on fractal metamaterial electromagnetic bandgap structures. IET Microwaves, Antennas and Propagation, 2018, 12, 2241-2247.	0.7	118
14	A new LC series element for compact bandpass filter design. IEEE Microwave and Wireless Components Letters, 2004, 14, 210-212.	2.0	111
15	Microstrip "wiggly-line" bandpass filters with multispurious rejection. IEEE Microwave and Wireless Components Letters, 2004, 14, 531-533.	2.0	108
16	1-D and 2-D photonic bandgap microstrip structures. , 1999, 22, 411-412.		99
17	A Ray Launching-Neural Network Approach for Radio Wave Propagation Analysis in Complex Indoor Environments. IEEE Transactions on Antennas and Propagation, 2014, 62, 2777-2786.	3.1	99
18	Very low-profile "Bull's Eye" feeder antenna. IEEE Antennas and Wireless Propagation Letters, 2005, 4, 365-368.	2.4	97

#	ARTICLE	IF	CITATIONS
19	An Easy to Deploy Street Light Control System Based on Wireless Communication and LED Technology. Sensors, 2013, 13, 6492-6523.	2.1	95
20	Study on on-Chip Antenna Design Based on Metamaterial-Inspired and Substrate-Integrated Waveguide Properties for Millimetre-Wave and THz Integrated-Circuit Applications. Journal of Infrared, Millimeter, and Terahertz Waves, 2021, 42, 17-28.	1.2	89
21	Left handed coplanar waveguide band pass filters based on bi-layer split ring resonators. IEEE Microwave and Wireless Components Letters, 2004, 14, 10-12.	2.0	86
22	High-Gain On-Chip Antenna Design on Silicon Layer With Aperture Excitation for Terahertz Applications. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1576-1580.	2.4	86
23	Metamaterial-Inspired Antenna Array for Application in Microwave Breast Imaging Systems for Tumor Detection. IEEE Access, 2020, 8, 174667-174678.	2.6	83
24	Electroinductive waves in chains of complementary metamaterial elements. Applied Physics Letters, 2006, 88, 083503.	1.5	77
25	Isolation enhancement of densely packed array antennas with periodic MTM photonic bandgap for SAR and MIMO systems. IET Microwaves, Antennas and Propagation, 2020, 14, 183-188.	0.7	77
26	High-isolation antenna array using SIW and realized with a graphene layer for sub-terahertz wireless applications. Scientific Reports, 2021, 11, 10218.	1.6	77
27	Molding Left- or Right-Handed Metamaterials by Stacked Cutoff Metallic Hole Arrays. IEEE Transactions on Antennas and Propagation, 2007, 55, 1514-1521.	3.1	76
28	Dual-Band Low-Profile Corrugated Feeder Antenna. IEEE Transactions on Antennas and Propagation, 2006, 54, 340-350.	3.1	72
29	Surface Wave Reduction in Antenna Arrays Using Metasurface Inclusion for MIMO and SAR Systems. Radio Science, 2019, 54, 1067-1075.	0.8	71
30	Coplanar waveguide structures loaded with split-ring resonators. Microwave and Optical Technology Letters, 2004, 40, 3-6.	0.9	69
31	Antenna Mutual Coupling Suppression Over Wideband Using Embedded Periphery Slot for Antenna Arrays. Electronics (Switzerland), 2018, 7, 198.	1.8	68
32	Interaction Between Closely Packed Array Antenna Elements Using Meta-Surface for Applications Such as MIMO Systems and Synthetic Aperture Radars. Radio Science, 2018, 53, 1368-1381.	0.8	68
33	Extraordinary transmission and left-handed propagation in miniaturized stacks of doubly periodic subwavelength hole arrays. Optics Express, 2007, 15, 1107.	1.7	66
34	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.	0.9	64
35	Study on improvement of the performance parameters of a novel 0.41-0.47 THz on-chip antenna based on metasurface concept realized on 50-nm GaAs-layer. Scientific Reports, 2020, 10, 11034.	1.6	64
36	META-SURFACE WALL SUPPRESSION OF MUTUAL COUPLING BETWEEN MICROSTRIP PATCH ANTENNA ARRAYS FOR THZ-BAND APPLICATIONS. Progress in Electromagnetics Research Letters, 2018, 75, 105-111.	0.4	63

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37	E-Government Interoperability: Linking Open and Smart Government. <i>Computer</i> , 2014, 47, 22-24.	1.2	62
38	Novel photonic bandgap microstrip structures using network topology. <i>Microwave and Optical Technology Letters</i> , 2000, 25, 33-36.	0.9	61
39	High-Isolation Leaky-Wave Array Antenna Based on CRLH-Metamaterial Implemented on SIW with $\hat{A}\pm 30^\circ$ Frequency Beam-Scanning Capability at Millimetre-Waves. <i>Electronics (Switzerland)</i> , 2019, 8, 642.	1.8	61
40	Dual-Polarized Highly Folded Bowtie Antenna With Slotted Self-Grounded Structure for Sub-6 GHz 5G Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 3028-3033.	3.1	61
41	Beam-scanning leaky-wave antenna based on CRLH-metamaterial for millimetre-wave applications. <i>IET Microwaves, Antennas and Propagation</i> , 2019, 13, 1129-1133.	0.7	58
42	Isolation Improvement in UWB-MIMO Antenna System Using Slotted Stub. <i>Electronics (Switzerland)</i> , 2020, 9, 1582.	1.8	54
43	High-Gain Metasurface in Polyimide On-Chip Antenna Based on CRLH-TL for Sub-Terahertz Integrated Circuits. <i>Scientific Reports</i> , 2020, 10, 4298.	1.6	54
44	Ab initio analysis of frequency selective surfaces based on conventional and complementary split ring resonators. <i>Journal of Optics</i> , 2005, 7, S38-S43.	1.5	51
45	Design and Experimental Validation of a LoRaWAN Fog Computing Based Architecture for IoT Enabled Smart Campus Applications. <i>Sensors</i> , 2019, 19, 3287.	2.1	51
46	Intelligent Vehicle Communication: Deterministic Propagation Prediction in Transportation Systems. <i>IEEE Vehicular Technology Magazine</i> , 2016, 11, 29-37.	2.8	48
47	Design, Implementation, and Empirical Validation of an IoT Smart Irrigation System for Fog Computing Applications Based on LoRa and LoRaWAN Sensor Nodes. <i>Sensors</i> , 2020, 20, 6865.	2.1	46
48	Future Smartphone: MIMO Antenna System for 5G Mobile Terminals. <i>IEEE Access</i> , 2021, 9, 91593-91603.	2.6	44
49	Optimized Wireless Channel Characterization in Large Complex Environments by Hybrid Ray Launching-Collaborative Filtering Approach. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 780-783.	2.4	43
50	Dual electromagnetic bandgap CPW structures for filter applications. <i>IEEE Microwave and Wireless Components Letters</i> , 2003, 13, 393-395.	2.0	42
51	Wideband printed monopole antenna for application in wireless communication systems. <i>IET Microwaves, Antennas and Propagation</i> , 2018, 12, 1222-1230.	0.7	41
52	Route for Bulk Millimeter Wave and Terahertz Metamaterial Design. <i>IEEE Journal of Quantum Electronics</i> , 2011, 47, 375-385.	1.0	40
53	Comparison of electromagnetic band gap and split-ring resonator microstrip lines as stop band structures. <i>Microwave and Optical Technology Letters</i> , 2005, 44, 376-379.	0.9	39
54	Design and Implementation of Context Aware Applications With Wireless Sensor Network Support in Urban Train Transportation Environments. <i>IEEE Sensors Journal</i> , 2017, 17, 169-178.	2.4	39

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55	Impedance Bandwidth Improvement of a Planar Antenna Based on Metamaterial-Inspired T-Matching Network. <i>IEEE Access</i> , 2021, 9, 67916-67927.	2.6	38
56	Improved adaptive impedance matching for RF front-end systems of wireless transceivers. <i>Scientific Reports</i> , 2020, 10, 14065.	1.6	37
57	Impact of High Power Interference Sources in Planning and Deployment of Wireless Sensor Networks and Devices in the 2.4 GHz Frequency Band in Heterogeneous Environments. <i>Sensors</i> , 2012, 12, 15689-15708.	2.1	36
58	A Hybrid Ray Launching-Diffusion Equation Approach for Propagation Prediction in Complex Indoor Environments. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 214-217.	2.4	36
59	Miniaturization Trends in Substrate Integrated Waveguide (SIW) Filters: A Review. <i>IEEE Access</i> , 2020, 8, 223287-223305.	2.6	36
60	Development and Characterization of Quasi-Optical Mesh Filters and Metastructures for Subterahertz and Terahertz Applications. <i>Key Engineering Materials</i> , 0, 437, 276-280.	0.4	35
61	Performance Analysis of IEEE 802.15.4 Compliant Wireless Devices for Heterogeneous Indoor Home Automation Environments. <i>International Journal of Antennas and Propagation</i> , 2012, 2012, 1-14.	0.7	34
62	BREAST TUMOR DETECTION SYSTEM BASED ON A COMPACT UWB ANTENNA DESIGN. <i>Progress in Electromagnetics Research M</i> , 2018, 64, 123-133.	0.5	34
63	A Compact CPW-Fed Ultra-Wideband Multi-Input-Multi-Output (MIMO) Antenna for Wireless Communication Networks. <i>IEEE Access</i> , 2022, 10, 25278-25289.	2.6	34
64	A Series Solution for the Single-Mode Synthesis Problem Based on the Coupled-Mode Theory. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008, 56, 457-466.	2.9	33
65	Aggregator to Electric Vehicle LoRaWAN Based Communication Analysis in Vehicle-to-Grid Systems in Smart Cities. <i>IEEE Access</i> , 2020, 8, 124688-124701.	2.6	33
66	Antenna on Chip (AoC) Design Using Metasurface and SIW Technologies for THz Wireless Applications. <i>Electronics (Switzerland)</i> , 2021, 10, 1120.	1.8	33
67	Stepped-impedance lowpass filters with spurious passband suppression. <i>Electronics Letters</i> , 2004, 40, 881.	0.5	32
68	Complementary split-ring resonator for compact waveguide filter design. <i>Microwave and Optical Technology Letters</i> , 2005, 46, 88-92.	0.9	32
69	Very Low Profile and Dielectric Loaded Feeder Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2007, 6, 544-548.	2.4	32
70	Super-Wide Impedance Bandwidth Planar Antenna for Microwave and Millimeter-Wave Applications. <i>Sensors</i> , 2019, 19, 2306.	2.1	32
71	Low-profile corrugated feeder antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2005, 4, 378-380.	2.4	31
72	A novel compact printed circular antenna for very ultrawideband applications. <i>Microwave and Optical Technology Letters</i> , 2009, 51, 1130-1133.	0.9	31

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73	Impact of Body Wearable Sensor Positions on UWB Ranging. IEEE Sensors Journal, 2019, 19, 11449-11457.	2.4	31
74	A Metasurface-Based Single-Layered Compact AMC-Backed Dual-Band Antenna for Off-Body IoT Devices. IEEE Access, 2021, 9, 159598-159615.	2.6	31
75	New periodic-loaded electromagnetic bandgap coplanar waveguide with complete spurious passband suppression. IEEE Microwave and Wireless Components Letters, 2002, 12, 435-437.	2.0	30
76	Evaluation of Electromagnetic Interference and Exposure Assessment from s-Health Solutions Based on Wi-Fi Devices. BioMed Research International, 2015, 2015, 1-9.	0.9	30
77	Forward and backward leaky wave radiation in split-ring-resonator-based metamaterials. IET Microwaves, Antennas and Propagation, 2007, 1, 65.	0.7	29
78	Analysis and design of 1-D photonic bandgap microstrip structures using a fiber grating model. , 1999, 22, 223-226.		28
79	Stop-band and band-pass characteristics in coplanar waveguides coupled to spiral resonators. Microwave and Optical Technology Letters, 2004, 42, 386-388.	0.9	28
80	Measurement and modeling of a UHFâ€RFID system in a metallic closed vehicle. Microwave and Optical Technology Letters, 2012, 54, 2126-2130.	0.9	28
81	Super compact split ring resonators CPW band pass filters. , 0, , .		27
82	Analysis and Description of HOLTIN Service Provision for AECG monitoring in Complex Indoor Environments. Sensors, 2013, 13, 4947-4960.	2.1	27
83	Towards Sub-Meter Level UWB Indoor Localization Using Body Wearable Sensors. IEEE Access, 2020, 8, 178886-178899.	2.6	26
84	Narrowband Characterization of Near-Ground Radio Channel for Wireless Sensors Networks at 5G-IoT Bands. Sensors, 2018, 18, 2428.	2.1	25
85	Metamaterials in microstrip technology for filter applications. , 0, , .		24
86	IVAN: Intelligent Van for the Distribution of Pharmaceutical Drugs. Sensors, 2012, 12, 6587-6609.	2.1	24
87	Characterization of Wireless Channel Impact on Wireless Sensor Network Performance in Public Transportation Buses. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 3280-3293.	4.7	24
88	FDTD and Empirical Exploration of Human Body and UWB Radiation Interaction on TOF Ranging. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1119-1123.	2.4	24
89	Design and Realization of a Frequency Reconfigurable Multimode Antenna for ISM, 5G-Sub-6-GHz, and S-Band Applications. Applied Sciences (Switzerland), 2021, 11, 1635.	1.3	24
90	Compact photonic bandgap microstrip structures. Microwave and Optical Technology Letters, 1999, 23, 233-236.	0.9	23

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91	Design and Empirical Validation of a Bluetooth 5 Fog Computing Based Industrial CPS Architecture for Intelligent Industry 4.0 Shipyard Workshops. IEEE Access, 2020, 8, 45496-45511.	2.6	23
92	Metamaterial Based Design of Compact UWB/MIMO Monopoles Antenna with Characteristic Mode Analysis. Applied Sciences (Switzerland), 2021, 11, 1542.	1.3	23
93	A Novel Hook-Shaped Antenna Operating at 28 GHz for Future 5G mmwave Applications. Electronics (Switzerland), 2021, 10, 673.	1.8	23
94	Estimation of Radiofrequency Power Leakage from Microwave Ovens for Dosimetric Assessment at Nonionizing Radiation Exposure Levels. BioMed Research International, 2015, 2015, 1-14.	0.9	22
95	Analysis of estimation of electromagnetic dosimetric values from non-ionizing radiofrequency fields in conventional road vehicle environments. Electromagnetic Biology and Medicine, 2015, 34, 19-28.	0.7	22
96	Spatial Characterization of Personal RF-EMF Exposure in Public Transportation Buses. IEEE Access, 2019, 7, 33038-33054.	2.6	22
97	From 2G to 5G Spatial Modeling of Personal RF-EMF Exposure Within Urban Public Trams. IEEE Access, 2020, 8, 100930-100947.	2.6	22
98	Analysis of low power wide area network wireless technologies in smart agriculture for large-scale farm monitoring and tractor communications. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110231.	2.5	22
99	Estimation of Electromagnetic Dosimetric Values from Non-Ionizing Radiofrequency Fields in an Indoor Commercial Airplane Environment. Electromagnetic Biology and Medicine, 2014, 33, 252-263.	0.7	21
100	Effects of the Body Wearable Sensor Position on the UWB Localization Accuracy. Electronics (Switzerland), 2019, 8, 1351.	1.8	21
101	Design and Empirical Validation of a LoRaWAN IoT Smart Irrigation System. Proceedings (mdpi), 2020, 42, .	0.2	21
102	Metasurface-Based Wideband MIMO Antenna for 5G Millimeter-Wave Systems. IEEE Access, 2021, 9, 125348-125357.	2.6	21
103	Improved 2-D photonic bandgap structures in microstrip technology. , 1999, 22, 207-211.		20
104	Electromagnetic crystals in microstrip technology. Optical and Quantum Electronics, 2002, 34, 279-295.	1.5	19
105	Novel microstrip backward coupler with metamaterial cells for fully planar fabrication techniques. Microwave and Optical Technology Letters, 2006, 48, 1205-1209.	0.9	19
106	ZigBee Radio Channel Analysis in a Complex Vehicular Environment [Wireless Corner]. IEEE Antennas and Propagation Magazine, 2014, 56, 232-245.	1.2	19
107	Spatial Characterization of Radio Propagation Channel in Urban Vehicle-to-Infrastructure Environments to Support WSNs Deployment. Sensors, 2017, 17, 1313.	2.1	19
108	Fifth-Generation (5G) mmWave Spatial Channel Characterization for Urban Environmentsâ€™ System Analysis. Sensors, 2020, 20, 5360.	2.1	19

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109	Electroinductive waves role in left-handed stacked complementary split rings resonators. Optics Express, 2009, 17, 1274.	1.7	18
110	Design of a Dual Band SNG Metamaterial Based Antenna for LTE 4G/WLAN and Ka-Band Applications. IEEE Access, 2021, 9, 71553-71562.	2.6	18
111	A Novel 0.3-0.31 THz GaAs-Based Transceiver with On-Chip Slotted Metamaterial Antenna Based on SIW Technology. , 2019, , .		17
112	Silicon-Based 0.450-0.475 THz Series-Fed Double Dielectric Resonator On-Chip Antenna Array Based on Metamaterial Properties for Integrated-Circuits. , 2019, , .		17
113	Enabling Customizable Services for Multimodal Smart Mobility With City-Platforms. IEEE Access, 2021, 9, 41628-41646.	2.6	17
114	Title is missing!. Journal of Infrared, Millimeter and Terahertz Waves, 1999, 20, 1091-1102.	0.6	16
115	New CPW low-pass filter based on a slow wave structure. Microwave and Optical Technology Letters, 2003, 38, 190-193.	0.9	16
116	Compact coplanar waveguide band-pass filter at the S-band. Microwave and Optical Technology Letters, 2005, 46, 33-35.	0.9	16
117	Stacked complementary metasurfaces for ultraslow microwave metamaterials. Applied Physics Letters, 2010, 96, .	1.5	16
118	Development of a Low Mobility IEEE 802.15.4 Compliant VANET System for Urban Environments. Sensors, 2013, 13, 7065-7078.	2.1	16
119	Analysis of Radio Wave Propagation for ISM 2.4 GHz Wireless Sensor Networks in Inhomogeneous Vegetation Environments. Sensors, 2014, 14, 23650-23672.	2.1	16
120	Implementation and Analysis of a Wireless Sensor Network-Based Pet Location Monitoring System for Domestic Scenarios. Sensors, 2016, 16, 1384.	2.1	16
121	An accurate UTD extension to a ray-launching algorithm for the analysis of complex indoor radio environments. Journal of Electromagnetic Waves and Applications, 2016, 30, 43-60.	1.0	16
122	A Radio Channel Model for D2D Communications Blocked by Single Trees in Forest Environments. Sensors, 2019, 19, 4606.	2.1	16
123	Single negative birefringence in stacked spoof plasmon metasurfaces by prism experiment. Optics Letters, 2010, 35, 643.	1.7	15
124	A COMPACT SPLIT RING RESONATOR ANTENNA FOR WIRELESS COMMUNICATION SYSTEMS. Progress in Electromagnetics Research Letters, 2013, 36, 201-207.	0.4	15
125	Implementation of Context Aware e-Health Environments Based on Social Sensor Networks. Sensors, 2016, 16, 310.	2.1	15
126	Optimization and Design of Wireless Systems for the Implementation of Context Aware Scenarios in Railway Passenger Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2838-2850.	4.7	15



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127	Influence of meshing adaption in convergence performance of deterministic ray launching estimation in indoor scenarios. <i>Journal of Electromagnetic Waves and Applications</i> , 2017, 31, 544-559.	1.0	15
128	Implementation and Operational Analysis of an Interactive Intensive Care Unit within a Smart Health Context. <i>Sensors</i> , 2018, 18, 389.	2.1	15
129	Hybrid Computational Techniques: Electromagnetic Propagation Analysis in Complex Indoor Environments. <i>IEEE Antennas and Propagation Magazine</i> , 2019, 61, 20-30.	1.2	15
130	Radio Wave Propagation and WSN Deployment in Complex Utility Tunnel Environments. <i>Sensors</i> , 2020, 20, 6710.	2.1	15
131	Building Decentralized Fog Computing-Based Smart Parking Systems: From Deterministic Propagation Modeling to Practical Deployment. <i>IEEE Access</i> , 2020, 8, 117666-117688.	2.6	15
132	Bandwidth and gain enhancement of composite right left handed metamaterial transmission line planar antenna employing a non foster impedance matching circuit board. <i>Scientific Reports</i> , 2021, 11, 7472.	1.6	15
133	Ubiquitous Connected Train Based on Train-to-Ground and Intra-Wagon Communications Capable of Providing on Trip Customized Digital Services for Passengers. <i>Sensors</i> , 2014, 14, 8003-8025.	2.1	14
134	Analysis of Wireless Sensor Network Topology and Estimation of Optimal Network Deployment by Deterministic Radio Channel Characterization. <i>Sensors</i> , 2015, 15, 3766-3788.	2.1	14
135	Overcome the Limitations of Performance Parameters of On-Chip Antennas Based on Metasurface and Coupled Feeding Approaches for Applications in System-on-Chip for THz Integrated-Circuits. , 2019, , .		14
136	Multimode HMSIW-Based Bandpass Filter with Improved Selectivity for Fifth-Generation (5G) RF Front-Ends. <i>Sensors</i> , 2020, 20, 7320.	2.1	14
137	Compact spurious free CPW bandpass filters based on electromagnetic bandgap structures. <i>Microwave and Optical Technology Letters</i> , 2004, 40, 146-148.	0.9	13
138	Implementing context aware scenarios to enable smart health in complex urban environments. , 2014, , .		13
139	Automated Reconfigurable Antenna Impedance for Optimum Power Transfer. , 2019, , .		13
140	High Performance Metasurface-Based On-Chip Antenna for Terahertz Integrated Circuits. , 2020, , .		13
141	Design and performance analysis of wireless body area networks in complex indoor e-Health hospital environments for patient remote monitoring. <i>International Journal of Distributed Sensor Networks</i> , 2016, 12, 155014771666806.	1.3	12
142	High-Performance 50Åµm Silicon-Based On-Chip Antenna with High Port-to-Port Isolation Implemented by Metamaterial and SIW Concepts for THz Integrated Systems. , 2019, , .		12
143	Characterization and consideration of topological impact of wireless propagation in a commercial aircraft environment [wireless corner]. <i>IEEE Antennas and Propagation Magazine</i> , 2013, 55, 240-258.	1.2	11
144	Spatial V2X Traffic Density Channel Characterization for Urban Environments. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 2761-2774.	4.7	11

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145	Frequency tuning in electromagnetic bandgap nonlinear transmission lines. Electronics Letters, 2003, 39, 440.	0.5	10
146	Performance Analysis of ZigBee Wireless Networks for AAL through Hybrid Ray Launching and Collaborative Filtering. Journal of Sensors, 2016, 2016, 1-16.	0.6	10
147	Evaluation of Deployment Challenges of Wireless Sensor Networks at Signalized Intersections. Sensors, 2016, 16, 1140.	2.1	10
148	Experimental demonstration of metamaterials application for mitigating scan blindness in phased array antennas. EPJ Applied Metamaterials, 2016, 3, 9.	0.8	10
149	Mutual coupling reduction using metamaterial supersubstrate for high performance & densely packed planar phased arrays. , 2018, , .		10
150	Deterministic Propagation Modeling for Intelligent Vehicle Communication in Smart Cities. Sensors, 2018, 18, 2133.	2.1	10
151	Deterministic 3D Ray-Launching Millimeter Wave Channel Characterization for Vehicular Communications in Urban Environments. Sensors, 2020, 20, 5284.	2.1	10
152	Implementation of an Interactive Environment With Multilevel Wireless Links for Distributed Botanical Garden in University Campus. IEEE Access, 2020, 8, 132382-132396.	2.6	10
153	Monitoring of Electric Buses Within an Urban Smart City Environment. IEEE Sensors Journal, 2022, 22, 11364-11372.	2.4	10
154	Gain Improvement of Dual Band Antenna Based on Complementary Rectangular Split-Ring Resonator. ISRN Communications and Networking, 2012, 2012, 1-9.	0.5	10
155	Study of the delay characteristics of 1-D photonic bandgap microstrip structures. , 1999, 23, 346-349.		9
156	Parametrical study of left-handed or right-handed propagation by stacking hole arrays. Optical and Quantum Electronics, 2007, 39, 285-293.	1.5	9
157	Connection between extraordinary transmission and negative refraction in a prism of stacked sub-wavelength hole arrays. Journal Physics D: Applied Physics, 2009, 42, 165504.	1.3	9
158	Negative group delay through subwavelength hole arrays. Physical Review B, 2011, 84, .	1.1	9
159	Enhanced gain dual band patch antenna based on complementary rectangular split-ring resonators. Microwave and Optical Technology Letters, 2011, 53, 590-594.	0.9	9
160	Temporal and Frequency Evolution of Brillouin and Sommerfeld Precursors Through Dispersive Media in THz-IR Bands. IEEE Transactions on Antennas and Propagation, 2012, 60, 5900-5913.	3.1	9
161	Metaradome for blind spot mitigation in phased-array antennas. , 2014, , .		9
162	Ultra wideband and tri-band antennas for satellite applications at C-, X-, and Ku bands. , 2014, , .		9

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163	SesToCross: Semantic Expert System to Manage Single-Lane Road Crossing. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 1221-1233.	4.7	9
164	A New Study to Suppress Mutual-Coupling Between Waveguide Slot Array Antennas Based on Metasurface Bulkhead for MIMO Systems. , 2018, , .		9
165	Comparative Study of Radiofrequency Electromagnetic Exposure in the Public Shopping Centers. , 2018, , .		9
166	Empirical and Modeling Approach for Environmental Indoor RF-EMF Assessment in Complex High-Node Density Scenarios: Public Shopping Malls Case Study. IEEE Access, 2021, 9, 46755-46775.	2.6	9
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