

# Issa T E Elfergani

## List of Publications by Year in descending order

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105  
papers

1,141  
citations

471509

17  
h-index

454955

30  
g-index

109  
all docs

109  
docs citations

109  
times ranked

858  
citing authors

#	ARTICLE	IF	CITATIONS
1	Eight-Element Dual-Polarized MIMO Slot Antenna System for 5G Smartphone Applications. IEEE Access, 2019, 7, 15612-15622.	4.2	161
2	Electromagnetic Bandgap Backed Millimeter-Wave MIMO Antenna for Wearable Applications. IEEE Access, 2019, 7, 111135-111144.	4.2	104
3	SmartWall: Novel RFID-Enabled Ambient Human Activity Recognition Using Machine Learning for Unobtrusive Health Monitoring. IEEE Access, 2019, 7, 68022-68033.	4.2	62
4	Frequency and Pattern Reconfigurable Antenna for Emerging Wireless Communication Systems. Electronics (Switzerland), 2019, 8, 407.	3.1	52
5	Toward unique identifiers. Proceedings of the IEEE, 1999, 87, 1208-1227.	21.3	43
6	8-Port Semi-Circular Arc MIMO Antenna with an Inverted L-Strip Loaded Connected Ground for UWB Applications. Electronics (Switzerland), 2021, 10, 1476.	3.1	40
7	Impedance Bandwidth Improvement of a Planar Antenna Based on Metamaterial-Inspired T-Matching Network. IEEE Access, 2021, 9, 67916-67927.	4.2	38
8	Low-Profile and Closely Spaced Four-Element MIMO Antenna for Wireless Body Area Networks. Electronics (Switzerland), 2020, 9, 258.	3.1	38
9	Low-Profile Frequency Reconfigurable Antenna for Heterogeneous Wireless Systems. Electronics (Switzerland), 2019, 8, 976.	3.1	36
10	A New and Compact Wide-Band Microstrip Filter-Antenna Design for 2.4 GHz ISM Band and 4G Applications. Electronics (Switzerland), 2020, 9, 1084.	3.1	27
11	Dielectric resonator antenna with top loaded parasitic strip elements for dual-band operation. Microwave and Optical Technology Letters, 2019, 61, 2134-2140.	1.4	24
12	UWB CPW fed 4-port connected ground MIMO antenna for sub-millimeter-wave 5G applications. AEJ - Alexandria Engineering Journal, 2022, 61, 6645-6658.	6.4	24
13	Green and Highly Efficient MIMO Transceiver System for 5G Heterogenous Networks. IEEE Transactions on Green Communications and Networking, 2022, 6, 500-511.	5.5	22
14	Transparent 2-Element 5G MIMO Antenna for Sub-6 GHz Applications. Electronics (Switzerland), 2022, 11, 251.	3.1	22
15	Offset Aperture-Coupled Double-Cylinder Dielectric Resonator Antenna With Extended Wideband. IEEE Transactions on Antennas and Propagation, 2017, 65, 5617-5622.	5.1	20
16	A Compact Semi-Circular and Arc-Shaped Slot Antenna for Heterogeneous RF Front-Ends. Electronics (Switzerland), 2019, 8, 1123.	3.1	20
17	A Survey on RF and Microwave Doherty Power Amplifier for Mobile Handset Applications. Electronics (Switzerland), 2019, 8, 717.	3.1	19
18	A Compact UWB Antenna Design for Breast Cancer Detection. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2010, 6, 129-132.	0.4	17

#	ARTICLE	IF	CITATIONS
19	Inverted-L Shaped Wideband MIMO Antenna for Millimeter-Wave 5G Applications. Electronics (Switzerland), 2022, 11, 1387.	3.1	17
20	Low profile dual-band-balanced handset antenna with dual-arm structure for WLAN application. IET Microwaves, Antennas and Propagation, 2011, 5, 1045.	1.4	16
21	Wireless Electromagnetic Radiation Assessment Based on the Specific Absorption Rate (SAR): A Review Case Study. Electronics (Switzerland), 2022, 11, 511.	3.1	14
22	A Varactor-Based Very Compact Tunable Filter with Wide Tuning Range for 4G and Sub-6 GHz 5G Communications. Sensors, 2020, 20, 4538.	3.8	13
23	Design of a Wide-Band Microstrip Filtering Antenna with Modified Shaped Slots and SIR Structure. Inventions, 2020, 5, 11.	2.5	13
24	Compact and Highly Sensitive Bended Microwave Liquid Sensor Based on a Metamaterial Complementary Split-Ring Resonator. Applied Sciences (Switzerland), 2022, 12, 2144.	2.5	13
25	Mixed-coupling multi-function quint-wideband asymmetric stepped impedance resonator filter. Microwave and Optical Technology Letters, 2019, 61, 1181-1184.	1.4	11
26	Compact Millimeter-Wave MIMO Antenna for 5G Applications. , 2020, , .		11
27	A New Polarization-Reconfigurable Antenna for 5G Wireless Communications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 431-437.	0.3	11
28	Compact microstrip antenna design for microwave imaging. , 2010, , .		10
29	Reconfigurable antenna design for mobile handsets including harmonic radiation measurements. IET Microwaves, Antennas and Propagation, 2012, 6, 990.	1.4	10
30	Design, Simulation and Implementation of Very Compact Open-loop Trisection BPF for 5G Communications. , 2019, , .		10
31	New High-Gain Differential-Fed Dual-Polarized Filtering Microstrip Antenna for 5G Applications. , 2020, , .		10
32	Complex Bianisotropy Effect on the Propagation Constant of a Shielded Multilayered Coplanar Waveguide Using Improved Full Generalized Exponential Matrix Technique. Electronics (Switzerland), 2020, 9, 243.	3.1	9
33	Secure Virtual Mobile Small Cells: A Stepping Stone Toward 6G. IEEE Communications Standards Magazine, 2021, 5, 28-36.	4.9	9
34	Theoretical Study of the Input Impedance and Electromagnetic Field Distribution of a Dipole Antenna Printed on an Electrical/Magnetic Uniaxial Anisotropic Substrate. Electronics (Switzerland), 2021, 10, 1050.	3.1	9
35	Analysis of the Combinatory Effect of Uniaxial Electrical and Magnetic Anisotropy on the Input Impedance and Mutual Coupling of a Printed Dipole Antenna. IEEE Access, 2021, 9, 84910-84921.	4.2	9
36	Linear and nonlinear crosstalk in MIMO OFDM transceivers. , 2011, , .		8

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37	Efficient multi-stage load modulation radio frequency power amplifier for green radio frequency front end. IET Science, Measurement and Technology, 2012, 6, 117.	1.6	8
38	Printed monopole antenna with tunable band-notched characteristic for use in mobile and ultra-wide band applications. International Journal of RF and Microwave Computer-Aided Engineering, 2015, 25, 403-412.	1.2	8
39	Current technologies and location based services. , 2017, , .		8
40	Antenna for Ultra-Wideband Applications With Non-Uniform Defected Ground Plane and Offset Aperture-Coupled Cylindrical Dielectric Resonators. IEEE Access, 2019, 7, 166776-166787.	4.2	8
41	Frequency Reconfigurable Antenna Array for MM-Wave 5G Mobile Handsets. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 438-445.	0.3	8
42	Small size tuneable printed Fâ€slot antenna for mobile handset applications. Microwave and Optical Technology Letters, 2012, 54, 794-802.	1.4	6
43	Aperture-coupled asymmetric dielectric resonator antenna with slotted microstrip line for enhanced ultrawideband. , 2016, , .		6
44	Effect analysis of the general complex reciprocal gyro-bianisotropic metamaterial medium on the input impedance of a printed dipole antenna. AEJ - Alexandria Engineering Journal, 2022, 61, 3691-3696.	6.4	6
45	Design of a compact tuned antenna system for mobile MIMO applications. , 2012, , .		5
46	A compact design of tunable bandâ€notched ultrawideband antenna. Microwave and Optical Technology Letters, 2012, 54, 1642-1644.	1.4	5
47	Dual-band printed folded dipole balanced antenna for 700/2600MHz LTE bands. , 2016, , .		5
48	Design of a PIFA with parasitic Fâ€element miniaturized antenna assembly for lower band ultraâ€wideband and IEEE 802.11a applications. Microwave and Optical Technology Letters, 2011, 53, 1970-1974.	1.4	4
49	Miniaturized Balanced Antenna with Integrated Balun for Practical LTE Applications. Radioengineering, 2017, 26, 444-452.	0.6	4
50	Fundamentals of Antenna Design, Technologies and Applications. , 2018, , 3-36.		4
51	Antiâ€windup scheme based on 2DOFâ€PI Î» D Î¼ controller for velocity tracking of linear induction motor. International Transactions on Electrical Energy Systems, 2019, 29, e12134.	1.9	4
52	Loadâ€modulation technique without using quarterâ€wavelength transmission line. IET Microwaves, Antennas and Propagation, 2020, 14, 1209-1215.	1.4	4
53	Recent Technical Developments in Energy-Efficient 5G Mobile Cells: Present and Future. Electronics (Switzerland), 2020, 9, 664.	3.1	4
54	A compact size reconfigurable PIFA antenna for use in mobile handset. , 2011, , .		3

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55	A novel dual band tunable balanced handset antenna for WLAN application. , 2011, , .		3
56	Design of a Sierpinski patch antenna around 2.4 GHz/5GHz for WiFi (IEEE 802.11n) applications. , 2015, , .		3
57	A load-pull approach to design an optimum load impedance and matching network for class-F RF power amplifier. , 2017, , .		3
58	A Frequency Tunable PIFA Design for Handset Applications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 688-693.	0.3	3
59	A capacitively loaded antenna for use in mobile handsets. , 2010, , .		2
60	Reconfigurable antenna design approach for mobile applications and a technique for harmonics suppression. , 2011, , .		2
61	Compact and closely spaced tunable printed Fâ€slot multipleâ€inputâ€multipleâ€output antenna system for portable wireless applications with efficient diversity. IET Science, Measurement and Technology, 2014, 8, 359-369.	1.6	2
62	Tunable RF MEMS Bandpass Filter with Coupled Transmission Lines. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 335-340.	0.3	2
63	Miniaturized dual-band balanced antenna for LTE using meander lines. , 2016, , .		2
64	Reduced ground plane aperture-coupled DRA fed by slotted microstrip for ultra-wideband application. , 2017, , .		2
65	Bandwidth Enhancement of rectangular dielectric resonator antenna using circular and sector slot coupled technique. , 2018, , .		2
66	Slotted Printed Monopole UWB Antennas with Tunable Rejection Bands for WLAN/WiMAX and X-Band Coexistence. Radioengineering, 2018, 27, 694-702.	0.6	2
67	Advancement of a Highly Efficient Class-F power Amplifier for 5G Doherty Architectures. , 2019, , .		2
68	A Wide-Angle Pattern Diversity Antenna System for mmWave 5G Mobile Terminals. Electronics (Switzerland), 2022, 11, 571.	3.1	2
69	Broadband dielectric resonator antenna (DRA) design for mobile wireless applications. , 2011, , .		1
70	Tunable PIFA slot antenna for mobile handset and WLAN applications. , 2012, , .		1
71	A novel multi-standard dual-wide band polygon SLSIR filter. , 2015, , .		1
72	Towards a green energy RF power amplifier for LTE applications. , 2015, , .		1

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73	Wireless Power Transmission principles and applications. , 2015, , .		1
74	Modelling the temperature dependence of 28nm fully depleted silicon-on insulator (FDSOI) static characteristics based on parallel computing approach. , 2016, , .		1
75	Practical multi-band antenna for 3G and 4G mobile services. , 2017, , .		1
76	Dual-Band Compact-Size Antenna Array for Angle of Arrival Estimation. , 2017, , .		1
77	A Doherty Power Amplifier Based on the Harmonic Generating Mechanism. , 2020, , .		1
78	Ultra-Compact mm-Wave Monolithic IC Doherty Power Amplifier for Mobile Handsets. Electronics (Switzerland), 2021, 10, 2131.	3.1	1
79	A Compact Load-Modulation Amplifier for Improved Efficiency Next Generation Mobile. , 2021, , .		1
80	Secure Mutual Self-Authenticable Mechanism for Wearable Devices. International Journal for Information Security Research, 2016, 6, .	0.3	1
81	A new compact printed monopole antenna based on compressed metamaterials for UWB applications. , 2021, , .		1
82	Recent Advances in Antenna Design for 5G Heterogeneous Networks. Electronics (Switzerland), 2022, 11, 146.	3.1	1
83	Hammerstein predistorter for high power RF amplifiers in OFDM transmitters. , 2011, , .		0
84	Capacitively loaded compact slot antenna. , 2012, , .		0
85	A compact tuneable modified PIFLA band-notch ultra-wide-band antenna for wireless applications. , 2012, , .		0
86	A COMPACT AND BROADBAND BALUN DESIGN FOR LTE APPLICATIONS. Progress in Electromagnetics Research C, 2016, 67, 85-95.	0.9	0
87	A small-size zigzag balanced antenna for LTE systems. , 2016, , .		0
88	Balanced antenna structure with slotted ground plane for LTE dual-band. , 2016, , .		0
89	The computation of complex resonance of microstrip antenna using method of moment and firefly algorithms. , 2016, , .		0
90	A 2.62-GHz class-F power amplifier with lumped-element and transmission line network design. , 2017, , .		0

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91	Demonstration of structural changes in variable structure control using state space approach. , 2017, , .		0
92	Patch antenna for integration in AUN based access control system. , 2017, , .		0
93	A CAD-Oriented Technique to Design an Optimum Load Impedance with Multi-Coupler Network for Class-F Power Amplifier. , 2017, , .		0
94	Miniaturized Monopole Wideband Antenna with Tunable Notch for WLAN/WiMAX Applications. , 2018, , 135-155.		0
95	Nigeria: Cyber Space Security Vis a Vis Computerisation, Miniaturisation and Location-Based Authentication. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 322-334.	0.3	0
96	Africa: cyber-security and its mutual impacts with computerisation, miniaturisation and location-based authentication. EAI Endorsed Transactions on Mobile Communications and Applications, 2017, 3, 153339.	0.5	0
97	Performance of Dual-Band Balanced Antenna Structure for LTE Applications. , 2018, , 245-262.		0
98	Reconfigurable Microstrip Printed Patch Antenna for Future Cognitive Radio Applications. EAI Endorsed Transactions on Cognitive Communications, 2017, 3, 153473.	0.2	0
99	Design of Compact Printed Monopole Antenna with Enhanced Bandwidth and Controllable Filtering Notch for UWB Applications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 299-306.	0.3	0
100	Design of Asymmetrical Doherty GaN HEMT Power Amplifiers for 4G Applications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 455-465.	0.3	0
101	Fast Statistical Modelling of Temperature Variation on 28Ånm FDSOI Technology. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 289-298.	0.3	0
102	Energy-Efficient RF for UDNs. , 2022, , 123-166.		0
103	Compact Single-Band Slot Antenna for WLAN Applications. , 2021, , .		0
104	A miniaturized Slot Antenna with Defected Ground Structure for GSM Applications. , 2021, , .		0
105	Analysis of gyrobianisotropic media effect on the input impedance, field distribution and mutual coupling of a printed dipole antenna. Scientific Reports, 2022, 12, .	3.3	0