# 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 | 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 |
| 2 | 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 |
| 3 | Energy-Efficient RF for UDNs. , 2022, , 123-166. | | 0 |
| 4 | Recent Advances in Antenna Design for 5G Heterogeneous Networks. Electronics (Switzerland), 2022, 11, 146. | 3.1 | 1 |
| 5 | Transparent 2-Element 5G MIMO Antenna for Sub-6 GHz Applications. Electronics (Switzerland), 2022, 11, 251. | 3.1 | 22 |
| 6 | 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 |
| 7 | Wireless Electromagnetic Radiation Assessment Based on the Specific Absorption Rate (SAR): A Review Case Study. Electronics (Switzerland), 2022, 11, 511. | 3.1 | 14 |
| 8 | 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 |
| 9 | A Wide-Angle Pattern Diversity Antenna System for mmWave 5G Mobile Terminals. Electronics (Switzerland), 2022, 11, 571. | 3.1 | 2 |
| 10 | Inverted-L Shaped Wideband MIMO Antenna for Millimeter-Wave 5G Applications. Electronics (Switzerland), 2022, 11, 1387. | 3.1 | 17 |
| 11 | 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 |
| 12 | Impedance Bandwidth Improvement of a Planar Antenna Based on Metamaterial-Inspired T-Matching Network. IEEE Access, 2021, 9, 67916-67927. | 4.2 | 38 |
| 13 | Secure Virtual Mobile Small Cells: A Stepping Stone Toward 6G. IEEE Communications Standards Magazine, 2021, 5, 28-36. | 4.9 | 9 |
| 14 | 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 |
| 15 | 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 |
| 16 | Ultra-Compact mm-Wave Monolithic IC Doherty Power Amplifier for Mobile Handsets. Electronics (Switzerland), 2021, 10, 2131. | 3.1 | 1 |
| 17 | A Compact Load-Modulation Amplifier for Improved Efficiency Next Generation Mobile. , 2021, , . | | 1 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A new compact printed monopole antenna based on compressed metamaterials for UWB applications. , 2021, , . | | 1 |
| 20 | Compact Single-Band Slot Antenna for WLAN Applications. , 2021, , . | | 0 |
| 21 | A miniaturized Slot Antenna with Defected Ground Structure for GSM Applications. , 2021, , . | | 0 |
| 22 | Compact Millimeter-Wave MIMO Antenna for 5G Applications. , 2020, , . | | 11 |
| 23 | New High-Gain Differential-Fed Dual-Polarized Filtering Microstrip Antenna for 5G Applications. , 2020, , . | | 10 |
| 24 | A Doherty Power Amplifier Based on the Harmonic Generating Mechanism. , 2020, , . | | 1 |
| 25 | Loadâ€modulation technique without using quarterâ€wavelength transmission line. IET Microwaves, Antennas and Propagation, 2020, 14, 1209-1215. | 1.4 | 4 |
| 26 | 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 |
| 27 | 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 |
| 28 | Design of a Wide-Band Microstrip Filtering Antenna with Modified Shaped Slots and SIR Structure. Inventions, 2020, 5, 11. | 2.5 | 13 |
| 29 | 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 |
| 30 | Recent Technical Developments in Energy-Efficient 5G Mobile Cells: Present and Future. Electronics (Switzerland), 2020, 9, 664. | 3.1 | 4 |
| 31 | Low-Profile and Closely Spaced Four-Element MIMO Antenna for Wireless Body Area Networks. Electronics (Switzerland), 2020, 9, 258. | 3.1 | 38 |
| 32 | 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 |
| 33 | A Survey on RF and Microwave Doherty Power Amplifier for Mobile Handset Applications. Electronics (Switzerland), 2019, 8, 717. | 3.1 | 19 |
| 34 | Low-Profile Frequency Reconfigurable Antenna for Heterogeneous Wireless Systems. Electronics (Switzerland), 2019, 8, 976. | 3.1 | 36 |
| 35 | A Compact Semi-Circular and Arc-Shaped Slot Antenna for Heterogeneous RF Front-Ends. Electronics (Switzerland), 2019, 8, 1123. | 3.1 | 20 |
| 36 | Electromagnetic Bandgap Backed Millimeter-Wave MIMO Antenna for Wearable Applications. IEEE Access, 2019, 7, 111135-111144. | 4.2 | 104 |

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| 37 | Mixedâ€coupling multiâ€function quintâ€wideband asymmetric stepped impedance resonator filter. Microwave and Optical Technology Letters, 2019, 61, 1181-1184. | 1.4 | 11 |
| 38 | Eight-Element Dual-Polarized MIMO Slot Antenna System for 5G Smartphone Applications. IEEE Access, 2019, 7, 15612-15622. | 4.2 | 161 |
| 39 | SmartWall: Novel RFID-Enabled Ambient Human Activity Recognition Using Machine Learning for Unobtrusive Health Monitoring. IEEE Access, 2019, 7, 68022-68033. | 4.2 | 62 |
| 40 | Dielectric resonator antenna with top loaded parasitic strip elements for dualâ€band operation. Microwave and Optical Technology Letters, 2019, 61, 2134-2140. | 1.4 | 24 |
| 41 | Frequency and Pattern Reconfigurable Antenna for Emerging Wireless Communication Systems. Electronics (Switzerland), 2019, 8, 407. | 3.1 | 52 |
| 42 | 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 |
| 43 | Design, Simulation and Implementation of Very Compact Open-loop Trisection BPF for 5G Communications. , 2019, , . | | 10 |
| 44 | Advancement of a Highly Efficient Class-F power Amplifier for 5G Doherty Architectures. , 2019, , . | | 2 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | Fast Statistical Modelling of Temperature Variation on 28Ânm FDSOI Technology. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 289-298. | 0.3 | 0 |
| 49 | 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 |
| 50 | Fundamentals of Antenna Design, Technologies and Applications. , 2018, , 3-36. | | 4 |
| 51 | Miniaturized Monopole Wideband Antenna with Tunable Notch for WLAN/WiMAX Applications. , 2018, , 135-155. | | 0 |
| 52 | Bandwidth Enhancement of rectangular dielectric resonator antenna using circular and sector slot coupled technique. , 2018, , . | | 2 |
| 53 | Slotted Printed Monopole UWB Antennas with Tunable Rejection Bands for WLAN/WiMAX and X-Band Coexistence. Radioengineering, 2018, 27, 694-702. | 0.6 | 2 |
| 54 | Performance of Dual-Band Balanced Antenna Structure for LTE Applications. , 2018, , 245-262. | | 0 |

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| 55 | Reduced ground plane aperture-coupled DRA fed by slotted microstrip for ultra-wideband application. , 2017, , . | | 2 |
| 56 | Offset Aperture-Coupled Double-Cylinder Dielectric Resonator Antenna With Extended Wideband. IEEE Transactions on Antennas and Propagation, 2017, 65, 5617-5622. | 5.1 | 20 |
| 57 | A load-pull approach to design an optimum load impedance and matching network for class-F RF power amplifier. , 2017, , . | | 3 |
| 58 | A 2.62-GHz class-F power amplifier with lumped-element and transmission line network design. , 2017, , . | | 0 |
| 59 | Practical multi-band antenna for 3G and 4G mobile services. , 2017, , . | | 1 |
| 60 | Demonstration of structural changes in variable structure control using state space approach. , 2017, , . | | 0 |
| 61 | Patch antenna for integration in AUN based access control system. , 2017, , . | | 0 |
| 62 | Current technologies and location based services. , 2017, , . | | 8 |
| 63 | Dual-Band Compact-Size Antenna Array for Angle of Arrival Estimation. , 2017, , . | | 1 |
| 64 | A CAD-Oriented Technique to Design an Optimum Load Impedance with Multi-Coupler Network for Class-F Power Amplifier. , 2017, , . | | 0 |
| 65 | Miniaturized Balanced Antenna with Integrated Balun for Practical LTE Applications. Radioengineering, 2017, 26, 444-452. | 0.6 | 4 |
| 66 | 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 |
| 67 | Reconfigurable Microstrip Printed Patch Antenna for Future Cognitive Radio Applications. EAI Endorsed Transactions on Cognitive Communications, 2017, 3, 153473. | 0.2 | 0 |
| 68 | A COMPACT AND BROADBAND BALUN DESIGN FOR LTE APPLICATIONS. Progress in Electromagnetics Research C, 2016, 67, 85-95. | 0.9 | 0 |
| 69 | A small-size zigzag balanced antenna for LTE systems. , 2016, , . | | 0 |
| 70 | Modelling the temperature dependence of 28nm fully depleted silicon-on insulator (FDSOI) static characteristics based on parallel computing approach. , 2016, , . | | 1 |
| 71 | Balanced antenna structure with slotted ground plane for LTE dual-band. , 2016, , . | | 0 |
| 72 | The computation of complex resonance of microstrip antenna using method of moment and firefly algorithms. , 2016, , . | | 0 |

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| 73 | Miniaturized dual-band balanced antenna for LTE using meander lines. , 2016, , . | | 2 |
| 74 | Aperture-coupled asymmetric dielectric resonator antenna with slotted microstrip line for enhanced ultrawideband. , 2016, , . | | 6 |
| 75 | Dual-band printed folded dipole balanced antenna for 700/2600MHz LTE bands. , 2016, , . | | 5 |
| 76 | Secure Mutual Self-Authenticable Mechanism for Wearable Devices. International Journal for Information Security Research, 2016, 6, . | 0.3 | 1 |
| 77 | A novel multi-standard dual-wide band polygon SLSIR filter. , 2015, , . | | 1 |
| 78 | Towards a green energy RF power amplifier for LTE applications. , 2015, , . | | 1 |
| 79 | Design of a Sierpinski patch antenna around 2.4 GHz/5GHz for WiFi (IEEE 802.11n) applications. , 2015, , . | | 3 |
| 80 | 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 |
| 81 | Wireless Power Transmission principles and applications. , 2015, , . | | 1 |
| 82 | 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 |
| 83 | 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 |
| 84 | 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 |
| 85 | Tunable PIFA slot antenna for mobile handset and WLAN applications. , 2012, , . | | 1 |
| 86 | Design of a compact tuned antenna system for mobile MIMO applications. , 2012, , . | | 5 |
| 87 | Reconfigurable antenna design for mobile handsets including harmonic radiation measurements. IET Microwaves, Antennas and Propagation, 2012, 6, 990. | 1.4 | 10 |
| 88 | Capacitively loaded compact slot antenna. , 2012, , . | | 0 |
| 89 | A compact tuneable modified PIFLA band-notch ultra-wide-band antenna for wireless applications. , 2012, , . | | 0 |
| 90 | 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 |

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|---|---|---|---|
| 91 | Small size tuneable printed Fâ€slot antenna for mobile handset applications. Microwave and Optical Technology Letters, 2012, 54, 794-802. | 1.4 | 6 |
| 92 | A compact design of tunable bandâ€notched ultrawideband antenna. Microwave and Optical Technology Letters, 2012, 54, 1642-1644. | 1.4 | 5 |
| 93 | 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 |
| 94 | Linear and nonlinear crosstalk in MIMO OFDM transceivers. , 2011, , . | | 8 |
| 95 | A compact size reconfigurable PIFA antenna for use in mobile handset. , 2011, , . | | 3 |
| 96 | Broadband dielectric resonator antenna (DRA) design for mobile wireless applications. , 2011, , . | | 1 |
| 97 | 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 |
| 98 | 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 |
| 99 | Reconfigurable antenna design approach for mobile applications and a technique for harmonics suppression. , 2011, , . | | 2 |
| 100 | Hammerstein predistorter for high power RF amplifiers in OFDM transmitters. , 2011, , . | | 0 |
| 101 | A novel dual band tunable balanced handset antenna for WLAN application. , 2011, , . | | 3 |
| 102 | Compact microstrip antenna design for microwave imaging. , 2010, , . | | 10 |
| 103 | A capacitively loaded antenna for use in mobile handsets. , 2010, , . | | 2 |
| 104 | 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 |
| 105 | Toward unique identifiers. Proceedings of the IEEE, 1999, 87, 1208-1227. | 21.3 | 43 |