

# Kenneth Lee Ford

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

1,070  
citations

535685

17  
h-index

511568

30  
g-index

81  
all docs

81  
docs citations

81  
times ranked

948  
citing authors

| #  | ARTICLE                                                                                                                                                                                  | IF  | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Reflective Switchable Polarization Rotator Based on Metasurface With PIN Diodes. IEEE Transactions on Antennas and Propagation, 2021, 69, 1483-1492.                                     | 3.1 | 31        |
| 2  | The effect of ADC resolution on concurrent, multiband, direct RF sampling receivers. , 2021, , .                                                                                         |     | 1         |
| 3  | Direct Antenna Modulation for High-Order Phase Shift Keying. IEEE Transactions on Antennas and Propagation, 2020, 68, 111-120.                                                           | 3.1 | 20        |
| 4  | Metasurface Direct Antenna Modulators in non-Line of Sight Channels for the Internet of Things. , 2020, , .                                                                              |     | 0         |
| 5  | A Magnetic Resonance Imaging Surface Coil Transceiver Employing a Metasurface for 1.5T Applications. IEEE Transactions on Medical Imaging, 2020, 39, 1085-1093.                          | 5.4 | 17        |
| 6  | Low-Profile Independently- and Concurrently-Tunable Quad-Band Antenna for Single Chain Sub-6GHz 5G New Radio Applications. IEEE Access, 2019, 7, 183770-183782.                          | 2.6 | 14        |
| 7  | A Single Unit Cell Metasurface for Magnetic Resonance Imaging Applications. , 2018, , .                                                                                                  |     | 1         |
| 8  | Systems Analysis of a Pattern Reconfigurable Antenna for Capacity Improvement of Cell Edge Users in Cellular Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 11848-11857. | 3.9 | 3         |
| 9  | High-gain pattern reconfigurable microstrip dipole antenna with a gain enhancing partially reflecting surface. IET Microwaves, Antennas and Propagation, 2018, 12, 1679-1683.            | 0.7 | 2         |
| 10 | Bit-Error-Rate Performance of Quadrature Modulation Transmission Using Reconfigurable Frequency Selective Surfaces. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2038-2041. | 2.4 | 14        |
| 11 | Frequency selective surface loaded antenna for direct antenna modulation. , 2017, , .                                                                                                    |     | 3         |
| 12 | An Independently Tunable Tri-Band Antenna Design for Concurrent Multiband Single Chain Radio Receivers. IEEE Transactions on Antennas and Propagation, 2017, 65, 6290-6297.              | 3.1 | 18        |
| 13 | A study on the use of metasurfaces for magnetic resonance imaging of human body models. , 2017, , .                                                                                      |     | 0         |
| 14 | Enhancement of radio frequency magnetic field for a 1.5 T magnetic resonance system using a high impedance surface. IET Microwaves, Antennas and Propagation, 2016, 10, 1378-1383.       | 0.7 | 6         |
| 15 | A reflective capacitive impedance surface for 1.5 Tesla magnetic resonance imaging applications. , 2016, , .                                                                             |     | 0         |
| 16 | A study on the use of metasurface synthesis using electric and magnetic susceptibility. , 2016, , .                                                                                      |     | 3         |
| 17 | Evaluation of High Impedance Surfaces for MRI RF coil applications - simulations of RF field and Specific Absorption Rate. , 2016, , .                                                   |     | 1         |
| 18 | Secure Electromagnetic Buildings Using Slow Phase-Switching Frequency-Selective Surfaces. IEEE Transactions on Antennas and Propagation, 2016, 64, 251-261.                              | 3.1 | 28        |

| #  | ARTICLE                                                                                                                                                                                                      | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | A high impedance surface for improving the radio frequency magnetic field for a 1.5 Tesla Magnetic Resonance system. , 2015, , .                                                                             |     | 5         |
| 20 | Switchable Electromagnetic Bandgap Surface Wave Antenna. International Journal of Antennas and Propagation, 2014, 2014, 1-7.                                                                                 | 0.7 | 7         |
| 21 | Investigation of a Switchable Textile Communication System on the Human Body. Electronics (Switzerland), 2014, 3, 491-503.                                                                                   | 1.8 | 5         |
| 22 | MINIATURIZED LOW FREQUENCY PLATFORM TOLERANT ANTENNA. Progress in Electromagnetics Research, 2014, 146, 195-207.                                                                                             | 1.6 | 2         |
| 23 | Advanced modelling of intelligent walls for indoor smart environments. , 2014, , .                                                                                                                           |     | 2         |
| 24 | A dynamic basestation antenna with reconfigurable azimuth beamwidth. , 2014, , .                                                                                                                             |     | 6         |
| 25 | A triple band Artificial Magnetic Conductor surface incorporating a split ring resonator antenna. , 2014, , .                                                                                                |     | 1         |
| 26 | Analysis of the use of beam reconfigurable antennas in a homogeneous cellular network deployment. , 2014, , .                                                                                                |     | 0         |
| 27 | A passive system for increasing cellular coverage within energy efficient buildings. , 2014, , .                                                                                                             |     | 5         |
| 28 | A reconfigurable artificial magnetic conductor adopting a digitally tuned capacitor. , 2014, , .                                                                                                             |     | 0         |
| 29 | Frequency selective building facades. , 2014, , .                                                                                                                                                            |     | 1         |
| 30 | Secure electromagnetic buildings. , 2014, , .                                                                                                                                                                |     | 1         |
| 31 | A miniaturised dual band artificial magnetic conductor using interdigital capacitance. , 2014, , .                                                                                                           |     | 10        |
| 32 | A digitally tuned capacitor as an active element for reconfigurable Artificial Magnetic Conductors. , 2014, , .                                                                                              |     | 0         |
| 33 | Utility of Gastric-Retained Alginate Gels to Modulate Pharmacokinetic Profiles in Rats. Journal of Pharmaceutical Sciences, 2013, 102, 2440-2449.                                                            | 1.6 | 7         |
| 34 | Reconfigurable frequency selective surface for use in secure electromagnetic buildings. Electronics Letters, 2013, 49, 861-863.                                                                              | 0.5 | 19        |
| 35 | Use of a Plane-Wave Synthesis Technique to Obtain Target RCS From Near-Field Measurements, With Selective Feature Extraction Capability. IEEE Transactions on Antennas and Propagation, 2013, 61, 2051-2057. | 3.1 | 29        |
| 36 | Controlling coverage for indoor wireless networks using Metalized Active FSS Walls. , 2013, , .                                                                                                              |     | 9         |

| #  | ARTICLE                                                                                                                                                                             | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Intelligent RF Wall Unit for in-building WLAN applications. , 2013, , .                                                                                                             |     | 2         |
| 38 | Oblique incidence analysis of a Salisbury screen employing a non-foster matching technique. , 2013, , .                                                                             |     | 3         |
| 39 | Compact Low Frequency Varactor Loaded Tunable SRR Antenna. IEEE Transactions on Antennas and Propagation, 2013, 61, 2301-2304.                                                      | 3.1 | 29        |
| 40 | Elastic dipole antenna prepared with thin metal films on elastomeric substrate. Electronics Letters, 2012, 48, 65.                                                                  | 0.5 | 6         |
| 41 | Small antenna over AMC surface with/out vias. , 2012, , .                                                                                                                           |     | 1         |
| 42 | Stretchable antennas. , 2012, , .                                                                                                                                                   |     | 14        |
| 43 | Switchable textile microstrip antenna for on/off-body communications and shape distortion study. , 2012, , .                                                                        |     | 1         |
| 44 | Miniaturised dual-band artificial magnetic conductor with reduced mutual coupling. Electronics Letters, 2012, 48, 425.                                                              | 0.5 | 21        |
| 45 | Independently Tunable Low-Profile Dual-Band High-Impedance Surface Antenna System for Applications in UHF Band. IEEE Transactions on Antennas and Propagation, 2012, 60, 4092-4101. | 3.1 | 24        |
| 46 | A dual band miniaturised Artificial Magnetic Conductor design methodology. , 2012, , .                                                                                              |     | 0         |
| 47 | Switchable on/off-body communication at 2.45GHz using textile microstrip patch antenna on stripline. Electronics Letters, 2012, 48, 254.                                            | 0.5 | 15        |
| 48 | DYNAMIC BASESTATION ANTENNA DESIGN FOR LOW ENERGY NETWORKS. Progress in Electromagnetics Research C, 2012, 31, 153-168.                                                             | 0.6 | 11        |
| 49 | A stretchable PIFA antenna. , 2011, , .                                                                                                                                             |     | 3         |
| 50 | Geometric transition radar absorbing material loaded with a binary frequency selective surface. IET Radar, Sonar and Navigation, 2011, 5, 483.                                      | 0.9 | 9         |
| 51 | Tunable antennas and AMC structures. , 2010, , .                                                                                                                                    |     | 2         |
| 52 | Miniature platform tolerant antenna composed of microstrip line and AMC surface. Electronics Letters, 2010, 46, 1480.                                                               | 0.5 | 8         |
| 53 | Loaded split ring antenna over AMC. Electronics Letters, 2010, 46, 971.                                                                                                             | 0.5 | 8         |
| 54 | 60 GHz ASK modulator using switchable FSS. , 2010, , .                                                                                                                              |     | 8         |

| #  | ARTICLE                                                                                                                                                                                    | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Switchable Frequency Selective Surface for Reconfigurable Electromagnetic Architecture of Buildings. IEEE Transactions on Antennas and Propagation, 2010, 58, 581-584.                     | 3.1 | 99        |
| 56 | Elastic antennas by metallised elastomers. , 2010, , .                                                                                                                                     |     | 2         |
| 57 | Optimisation of stepped permittivity impedance loaded absorber. Electronics Letters, 2009, 45, 339.                                                                                        | 0.5 | 3         |
| 58 | Miniaturised artificial magnetic conductor design using lumped reactive components. Electronics Letters, 2009, 45, 294.                                                                    | 0.5 | 33        |
| 59 | Design Methodology for a Miniaturized Frequency Selective Surface Using Lumped Reactive Components. IEEE Transactions on Antennas and Propagation, 2009, 57, 2732-2738.                    | 3.1 | 117       |
| 60 | Optimisation of a pyramidal geometric transition radar absorbing material loaded with a resistive frequency selective surface. IET Radar, Sonar and Navigation, 2009, 3, 596.              | 0.9 | 2         |
| 61 | Single-layer bandpass active frequency selective surface. Microwave and Optical Technology Letters, 2008, 50, 2149-2151.                                                                   | 0.9 | 40        |
| 62 | Angle and polarizationâ€independent bandstop frequency selective surface for indoor wireless systems. Microwave and Optical Technology Letters, 2008, 50, 2315-2317.                       | 0.9 | 26        |
| 63 | Dipole radiation steering using an active artificial magnetic conductor. , 2008, , .                                                                                                       |     | 0         |
| 64 | Novel Planar Band Pass Lump-Loaded Frequency Selective Surface. , 2008, , .                                                                                                                |     | 6         |
| 65 | Improvement in the Low Frequency Performance of Geometric Transition Radar Absorbers Using Square Loop Impedance Layers. IEEE Transactions on Antennas and Propagation, 2008, 56, 133-141. | 3.1 | 16        |
| 66 | Miniaturised bandpass frequency selective surface with lumped components. Electronics Letters, 2008, 44, 1054.                                                                             | 0.5 | 47        |
| 67 | Street Furniture Antenna Radiation Pattern Control Using AMC Surfaces. IEEE Transactions on Antennas and Propagation, 2008, 56, 3049-3052.                                                 | 3.1 | 7         |
| 68 | Dual band tunable EBG. Electronics Letters, 2008, 44, 392.                                                                                                                                 | 0.5 | 13        |
| 69 | Effect of element failure in active coatings for wind turbine generator blades. , 2008, , .                                                                                                |     | 1         |
| 70 | Design and realisation of active coatings for wind turbine blades. , 2008, , .                                                                                                             |     | 0         |
| 71 | Pyramidal absorbers loaded with resistive FSS. , 2007, , .                                                                                                                                 |     | 2         |
| 72 | Tuneable compact antenna design using active EBGs. , 2007, , .                                                                                                                             |     | 2         |

| #  | ARTICLE                                                                                                                                                   | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Antenna radiation pattern control using EBG/AMC surfaces for street furniture applications. , 2007, , .                                                   |     | 5         |
| 74 | Optimum performance of pyramidal absorbers using impedance loading layers. , 2007, , .                                                                    |     | 2         |
| 75 | Oblique Incidence Performance of a Novel Frequency Selective Surface Absorber. IEEE Transactions on Antennas and Propagation, 2007, 55, 2931-2934.        | 3.1 | 111       |
| 76 | Active frequency selective surface using PIN diodes. , 2007, , .                                                                                          |     | 25        |
| 77 | A New Approach to the Design of Low Frequency Radar Absorbent Materials. , 2007, , .                                                                      |     | 0         |
| 78 | Application of Impedance Loading to Geometric Transition Radar Absorbent Material. IEEE Transactions on Electromagnetic Compatibility, 2007, 49, 339-345. | 1.4 | 13        |
| 79 | A new microwave "smart window" based on a poly(3,4-ethylenedioxythiophene) composite. Journal of Materials Chemistry, 2003, 13, 16-20.                    | 6.7 | 18        |
| 80 | Topology for tunable radar absorbers. Electronics Letters, 2000, 36, 1304.                                                                                | 0.5 | 22        |
| 81 | Smart microwave absorber. Electronics Letters, 2000, 36, 50.                                                                                              | 0.5 | 22        |