William G Whittow

List of Publications by Citations

83 papers	1,267 citations	18 h-index	33 g-index
102 ext. papers	1,685 ext. citations	3.2 avg, IF	4.72 L-index

#	Paper	IF	Citations
83	Embroidery and Related Manufacturing Techniques for Wearable Antennas: Challenges and Opportunities. *Electronics (Switzerland)*, **2014**, 3, 314-338	2.6	137
82	Inkjet-Printed Microstrip Patch Antennas Realized on Textile for Wearable Applications. *IEEE Antennas and Wireless Propagation Letters*, **2014**, 13, 71-74	3.8	106
81	Towards industrial internet of things: Crankshaft monitoring, traceability and tracking using RFID. *Robotics and Computer-Integrated Manufacturing*, **2016**, 41, 66-77	9.2	93
80	CPW-Fed Cavity-Backed Slot Radiator Loaded With an AMC Reflector. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 735-742	4.9	91
79	Inkjet printed dipole antennas on textiles for wearable communications. *IET Microwaves, Antennas and Propagation*, **2013**, 7, 760-767	1.6	83
78	Effect of the fabrication parameters on the performance of embroidered antennas. *IET Microwaves, Antennas and Propagation*, **2013**, 7, 1174-1181	1.6	55
77	3D-printed planar graded index lenses. *IET Microwaves, Antennas and Propagation*, **2016**, 10, 1411-1419	1.6	55
76	Higher-mode textile patch antenna with embroidered vias for on-body communication. *IET Microwaves, Antennas and Propagation*, **2016**, 10, 802-807	1.6	35
75	Novel 3D printed synthetic dielectric substrates. *Microwave and Optical Technology Letters*, **2015**, 57, 2344-2346	1.2	35
74	High quality factor cold sintered Li2MoO4BaFe12O19 composites for microwave applications. *Acta Materialia*, **2019**, 166, 202-207	8.4	35
73	Embroidered Wire Dipole Antennas Using Novel Copper Yarns. *IEEE Antennas and Wireless Propagation Letters*, **2015**, 14, 638-641	3.8	34
72	Cold sintered CaTiO3-K2MoO4 microwave dielectric ceramics for integrated microstrip patch antennas. *Applied Materials Today*, **2020**, 18, 100519	6.6	31
71	Simulation Methodology for Synthesis of Antenna Substrates With Microscale Inclusions. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 2194-2202	4.9	28
70	Feasibility Study of 4G Cellular Antennas for Eyewear Communicating Devices. *IEEE Antennas and Wireless Propagation Letters*, **2013**, 12, 1704-1707	3.8	23
69	Multi-material additive manufacturing of low sintering temperature Bi2Mo2O9 ceramics with Ag floating electrodes by selective laser burnout. *Virtual and Physical Prototyping*, **2020**, 15, 133-147	10.1	22
68	Temperature Stable Cold Sintered (BiLi)(VMo)O-NaMoO Microwave Dielectric Composites. *Materials*, **2019**, 12,	3.5	21
67	Direct Integration of Cold Sintered, Temperature-Stable Bi2Mo2O9-K2MoO4 Ceramics on Printed Circuit Boards for Satellite Navigation Antennas. *Journal of the European Ceramic Society*, **2020**, 40, 4029-4034	6	21

66	Effective Permittivity of Heterogeneous Substrates With Cubes in a 3-D Lattice. *IEEE Antennas and Wireless Propagation Letters*, **2011**, 10, 1480-1483	3.8	18
65	Embroidered Frequency Selective Surfaces on textiles for wearable applications **2013**,		15
64	3D-printed flat lens for microwave applications **2015**,		14
63	Fused filament fabrication of functionally graded polymer composites with variable relative permittivity for microwave devices. *Materials and Design*, **2020**, 193, 108871	8.1	14
62	Experimental Verification of a Modified Specific Anthropomorphic Mannequin (SAM) Head used for SAR Measurements **2007**,		13
61	The Impact of 3D Printing Process Parameters on the Dielectric Properties of High Permittivity Composites. *Designs*, **2019**, 3, 50	1.8	12
60	. *IEEE Transactions on Microwave Theory and Techniques*, **2019**, 67, 4341-4352	4.1	12
59	Aperiodic Sunflower-Like Metasurface for Diffusive Scattering and RCS Reduction. *IEEE Antennas and Wireless Propagation Letters*, **2020**, 19, 1048-1052	3.8	11
58	Ball Grid Array-Module With Integrated Shaped Lens for WiGig Applications in Eyewear Devices. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 872-882	4.9	11
57	Miniaturization of a Circular Patch Microstrip Antenna Using an Arc Projection. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 517-520	3.8	11
56	Patch size reduction of rectangular microstrip antennas by means of a cuboid ridge. *IET Microwaves, Antennas and Propagation*, **2015**, 9, 1727-1732	1.6	11
55	Additively manufactured ultra-low sintering temperature, low loss Ag2Mo2O7 ceramic substrates. *Journal of the European Ceramic Society*, **2021**, 41, 394-401	6	11
54	. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 3788-3799	4.9	11
53	Ultrabroadband Antenna With Robustness to Body Detuning for 4G Eyewear Devices. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 1225-1228	3.8	10
52	Dual-Band 4G Eyewear Antenna and SAR Implications. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 2085-2089	4.9	9
51	Body-centric wireless hospital patient monitoring networks using body-contoured flexible antennas. *IET Microwaves, Antennas and Propagation*, **2018**, 12, 203-210	1.6	9
50	. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 5308-5317	4.9	9
49	The Energy Absorbed in the Human Head Due to Ring-Type Jewelry and Face-Illuminating Mobile Phones Using a Dipole and a Realistic Source. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 3812-3817	4.9	9

48	Band-pass filter-like antenna validation in an ultra-wideband in-car wireless channel. *IET Communications*, **2015**, 9, 532-540	1.3	8
47	An implanted antenna system for the monitoring of the healing of bone fractures **2015**,		7
46	APPLICATIONS AND FUTURE PROSPECTS FOR MICROSTRIP ANTENNAS USING HETEROGENEOUS AND COMPLEX 3-D GEOMETRY SUBSTRATES. *Progress in Electromagnetics Research*, **2014**, 144, 271-280	3.8	7
45	Antenna Emblems Reshaped as Icons and Esthetic Logos (Aerial). *Microwave and Optical Technology Letters*, **2013**, 55, 1711-1714	1.2	7
44	Bone fracture monitoring using implanted antennas in the radius, tibia and phalange heterogeneous bone phantoms. *Biomedical Physics and Engineering Express*, **2018**, 4, 045006	1.5	6
43	Tattoo Antenna Temporary Transfers Operating On-Skin (TATTOOS). *Lecture Notes in Computer Science*, **2015**, 685-695	0.9	6
42	Microstrip Patch Antennas With Anisotropic and Diamagnetic Synthetic Heterogeneous Substrates. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 3280-3285	4.9	5
41	4G antennas for wireless eyewear devices and related SAR. *Comptes Rendus Physique*, **2015**, 16, 836-850	1.4	5
40	Bendable plaster antenna for 2.45 GHz applications **2009**,		5
39	Next-Generation Healthcare: Enabling Technologies for Emerging Bioelectromagnetics Applications. *IEEE Open Journal of Antennas and Propagation*, **2022**, 3, 363-390	1.9	5
38	Evaluation of a human body phantom for wearable antenna measurements at the 5.8GHz band **2013**,		4
37	On-body measurements of embroidered spiral antenna **2015**,		4
36	Investigation of the effect of metallic frames on 4G eyewear antennas **2014**,		4
35	Aesthetically Enhanced RFID Inkjet Antenna Logos on Skin (AERIALS). *Lecture Notes in Computer Science*, **2014**, 719-730	0.9	4
34	Microwave antennas and heterogeneous substrates using nanomaterial fabrication techniques **2011**,		4
33	Novel planar AMC for low profile antenna applications **2009**,		4
32	Dipole-slot-dipole metasurfaces. *IET Microwaves, Antennas and Propagation*, **2016**, 10, 1384-1389	1.6	4
31	Additive Manufacturing for High Performance Antennas and RF Components **2019**,		3

30	. *IEEE Transactions on Microwave Theory and Techniques*, **2020**, 68, 74-86	4.1	3
29	Design, realisation and evaluation of a liquid hollow torso phantom appropriate for wearable antenna assessment. *IET Microwaves, Antennas and Propagation*, **2017**, 11, 1308-1316	1.6	3
28	THE INFLUENCE OF HUMAN HEAD MODEL WEARING METAL-FRAME SPECTACLES TO THE CHANGES OF SAR AND ANTENNA GAIN: SIMULATION OF FRONTAL FACE EXPOSURE. *Progress in Electromagnetics Research*, **2013**, 137, 453-473	3.8	3
27	Performance investigation of a dual element IFA array at 3 GHz for MIMO terminals **2011**,		3
26	On the miniaturization of microstrip line-fed slot antenna using various slots **2011**,		3
25	Flexible three-dimensional printed antenna substrates. *Journal of Engineering*, **2015**, 2015, 258-260	0.7	2
24	Antennas on quasi synthetic media. *Applied Physics A: Materials Science and Processing*, **2014**, 115, 605-616	1.2	2
23	Performance and radiation patterns of aesthetic and asymmetric logo-based patch antennas. *Journal of Electromagnetic Waves and Applications*, **2014**, 28, 848-860	1.3	2
22	3D-printed lens antenna **2017**,		2
21	BENDING AND CRUMPLING DEFORMATION STUDY OF THE RESONANT CHARACTERISTIC AND SAR FOR A 2.4 GHZ TEXTILE ANTENNA. *Jurnal Teknologi (Sciences and Engineering)*, **2015**, 77,	1.2	2
20	RF power density measurements for RF energy harvesting in automobile factories **2015**,		2
19	Designing microwave patch antennas using heterogeneous substrates **2012**,		2
18	Manipulating microsized coupling gaps for reconfigurable antenna applications. *Microwave and Optical Technology Letters*, **2012**, 54, 2444-2445	1.2	2
17	Microstrip patch antennas with 3-dimensional substrates **2012**,		2
16	**2009**,		2
15	Fabrication of Artificial Dielectrics via Stereolithography Based 3D-Printing **2020**,		2
14	Direct ink writing of bismuth molybdate microwave dielectric ceramics. *Ceramics International*, **2021**, 47, 7625-7631	5.1	2
13	Thermal Spray Coatings for Electromagnetic Wave Absorption and Interference Shielding: A Review and Future Challenges. *Advanced Engineering Materials*,2200171	3.5	2

12	. *IEEE Access*, **2020**, 8, 7628-7640	3.5	1
11	Numerical dosimetry of CDMA/GSM, DCS/PCS and 3G signal jammers. *IET Microwaves, Antennas and Propagation*, **2016**, 10, 827-835	1.6	1
10	Review of artificial dielectrics containing small scale inclusions **2013**,		1
9	Dipole and slot loaded closely coupled complementary metasurfaces **2015**,		1
8	Experimental assessment of the effects of cross-traffic on Wi-Fi video streaming. *Measurement: Journal of the International Measurement Confederation*, **2011**, 44, 1661-1668	4.6	1
7	Ultra thin dipole antenna backed by new planar artificial magnetic conductor **2009**,		1
6	Characterisation of an antenna system implanted into a limb phantom for monitoring of bone fracture healing **2016**,		1
5	Evaluating 2-D grid interpolation techniques for predicting ambient RF power density in automobile factories **2016**,		1
4	Wearable and meshed wideband monopole antennas and their interactions with the human body. *IET Microwaves, Antennas and Propagation*, **2019**, 13, 2412-2418	1.6	1
3	Synthesis and dielectric characterisation of a low loss BaSrTiO3/ABS ceramic/polymer composite for fused filament fabrication additive manufacturing. *Additive Manufacturing*, **2022**, 55, 102844	6.1	1
2	Nature-inspired orbital angular momentum beam generator using aperiodic metasurface. *Journal Physics D: Applied Physics*, **2021**, 54, 275106	3	0
1	Optimization and experimental validation of a bi-focal lens in the microwave domain. *AIP Advances*, **2022**, 12, 025103	1.5	