

Akram Alomainy

List of Publications by Year in descending order

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296
papers

6,288
citations

87888

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316
all docs

316
docs citations

316
times ranked

4090
citing authors

#	ARTICLE	IF	CITATIONS
1	Antennas and propagation for on-body communication systems. IEEE Antennas and Propagation Magazine, 2007, 49, 41-58.	1.4	384
2	Comparison between two different antennas for UWB on-body propagation measurements. IEEE Antennas and Wireless Propagation Letters, 2005, 4, 31-34.	4.0	176
3	Statistical Analysis and Performance Evaluation for On-Body Radio Propagation With Microstrip Patch Antennas. IEEE Transactions on Antennas and Propagation, 2007, 55, 245-248.	5.1	170
4	Millimetre-wave T-shaped MIMO antenna with defected ground structures for 5G cellular networks. IET Microwaves, Antennas and Propagation, 2018, 12, 672-677.	1.4	170
5	Transient Characteristics of Wearable Antennas and Radio Propagation Channels for Ultrawideband Body-Centric Wireless Communications. IEEE Transactions on Antennas and Propagation, 2009, 57, 875-884.	5.1	156
6	UWB on-body radio propagation and system modelling for wireless body-centric networks. IET Communications, 2006, 153, 107.	1.0	144
7	Compact and Low-Profile Textile EBG-Based Antenna for Wearable Medical Applications. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2550-2553.	4.0	143
8	Reconfiguring UWB Monopole Antenna for Cognitive Radio Applications Using GaAs FET Switches. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 392-394.	4.0	133
9	Terahertz Channel Characterization Inside the Human Skin for Nano-Scale Body-Centric Networks. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 427-434.	3.1	131
10	Antennas and Propagation for Body Centric Wireless Communications. , 0, ,		121
11	UWB on-body radio channel modeling using ray theory and subband FDTD method. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 1827-1835.	4.6	121
12	Body Sensor Networks: In the Era of Big Data and Beyond. IEEE Reviews in Biomedical Engineering, 2015, 8, 4-16.	18.0	111
13	Pattern-Reconfigurable Microstrip Patch Antenna With Multidirectional Beam for WiMAX Application. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 860-863.	4.0	110
14	Experimental Characterization of UWB On-Body Radio Channel in Indoor Environment Considering Different Antennas. IEEE Transactions on Antennas and Propagation, 2010, 58, 238-241.	5.1	106
15	State-of-the-art in terahertz sensing for food and water security – A comprehensive review. Trends in Food Science and Technology, 2019, 85, 241-251.	15.1	106
16	Pattern-Reconfigurable Planar Circular Ultra-Wideband Monopole Antenna. IEEE Transactions on Antennas and Propagation, 2013, 61, 4973-4980.	5.1	105
17	Millimeter-Wave Liquid Crystal Polymer Based Conformal Antenna Array for 5G Applications. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 84-88.	4.0	105
18	Numerical Analysis and Characterization of THz Propagation Channel for Body-Centric Nano-Communications. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 419-426.	3.1	102

#	ARTICLE	IF	CITATIONS
19	Modeling and Characterization of Biotelemetric Radio Channel From Ingested Implants Considering Organ Contents. IEEE Transactions on Antennas and Propagation, 2009, 57, 999-1005.	5.1	96
20	Ultrawideband Band-Notched Flexible Antenna for Wearable Applications. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1606-1609.	4.0	94
21	Nano-Communication for Biomedical Applications: A Review on the State-of-the-Art From Physical Layers to Novel Networking Concepts. IEEE Access, 2016, 4, 3920-3935.	4.2	84
22	Numerical Characterization and Link Budget Evaluation of Wireless Implants Considering Different Digital Human Phantoms. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 2605-2613.	4.6	81
23	A Multiband Millimeter-Wave 2-D Array Based on Enhanced Franklin Antenna for 5G Wireless Systems. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2983-2986.	4.0	79
24	Terahertz Communications in Human Tissues at the Nanoscale for Healthcare Applications. IEEE Nanotechnology Magazine, 2015, 14, 404-406.	2.0	75
25	Highly Efficient Wearable CPW Antenna Enabled by EBG-FSS Structure for Medical Body Area Network Applications. IEEE Access, 2018, 6, 77529-77541.	4.2	74
26	A Review on the Role of Nano-Communication in Future Healthcare Systems: A Big Data Analytics Perspective. IEEE Access, 2018, 6, 41903-41920.	4.2	70
27	Impulse Radio Ultra-Wideband Communications for Localization and Tracking of Human Body and Limbs Movement for Healthcare Applications. IEEE Transactions on Antennas and Propagation, 2017, 65, 7298-7309.	5.1	66
28	An Overview of Electromagnetic Band-Gap Integrated Wearable Antennas. IEEE Access, 2020, 8, 7641-7658.	4.2	66
29	Numerical Characterization and Modeling of Subject-Specific Ultrawideband Body-Centric Radio Channels and Systems for Healthcare Applications. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 221-227.	3.2	63
30	Experimental study of the subwavelength imaging by a wire medium slab. Applied Physics Letters, 2006, 89, 262109.	3.3	60
31	Machine Learning Driven Approach Towards the Quality Assessment of Fresh Fruits Using Non-Invasive Sensing. IEEE Sensors Journal, 2020, 20, 2075-2083.	4.7	57
32	A Review on the State of the Art in Atrial Fibrillation Detection Enabled by Machine Learning. IEEE Reviews in Biomedical Engineering, 2021, 14, 219-239.	18.0	55
33	Numerical and Experimental Evaluation of a Compact Sensor Antenna for Healthcare Devices. IEEE Transactions on Biomedical Circuits and Systems, 2007, 1, 242-249.	4.0	52
34	Low-Cost Inkjet-Printed UHF RFID Tag-Based System for Internet of Things Applications Using Characteristic Modes. IEEE Internet of Things Journal, 2019, 6, 3962-3975.	8.7	51
35	Experimental Investigation of 3-D Human Body Localization Using Wearable Ultra-Wideband Antennas. IEEE Transactions on Antennas and Propagation, 2015, 63, 5035-5044.	5.1	47
36	Parametric study of wearable antennas with varying distances from the body and different on-body positions. , 2007, , .		46

#	ARTICLE	IF	CITATIONS
37	Robust and Efficient Integrated Antenna With EBG-DGS Enabled Wide Bandwidth for Wearable Medical Device Applications. IEEE Access, 2020, 8, 56346-56358.	4.2	46
38	Modelling and Characterisation of Radio Propagation from Wireless Implants at Different Frequencies. , 2006, , .		45
39	A Comprehensive Survey on Hybrid Communication in Context of Molecular Communication and Terahertz Communication for Body-Centric Nanonetworks. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2020, 6, 107-133.	2.1	44
40	Analytical modelling of the effect of noise on the terahertz in-vivo communication channel for body-centric nano-networks. Nano Communication Networks, 2018, 15, 59-68.	2.9	41
41	Cooperative In-Vivo Nano-Network Communication at Terahertz Frequencies. IEEE Access, 2017, 5, 8642-8647.	4.2	40
42	Compact body-worn coplanar waveguide fed antenna for UWB body-centric wireless communications. , 2007, , .		38
43	On-Body Radio Channel Characterization and System-Level Modeling for Multiband OFDM Ultra-Wideband Body-Centric Wireless Network. IEEE Transactions on Microwave Theory and Techniques, 2010, , .	4.6	38
44	Inkjet-Printed Millimetre-Wave PET-Based Flexible Antenna for 5G Wireless Applications. , 2018, , .		38
45	Low-profile flexible frequency-reconfigurable millimetre-wave antenna for 5G applications. Flexible and Printed Electronics, 2018, 3, 035003.	2.7	38
46	Monitoring of Patients Suffering From REM Sleep Behavior Disorder. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2018, 2, 138-143.	3.4	37
47	EXPERIMENTAL INVESTIGATION OF ULTRA WIDEBAND DIVERSITY TECHNIQUES FOR ON-BODY RADIO COMMUNICATIONS. Progress in Electromagnetics Research C, 2013, 34, 165-181.	0.9	36
48	Textile antennas for on-body communications: techniques and properties. , 2007, , .		34
49	Anatomical Region-Specific In Vivo Wireless Communication Channel Characterization. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1254-1262.	6.3	33
50	Contactless Small-Scale Movement Monitoring System Using Software Defined Radio for Early Diagnosis of COVID-19. IEEE Sensors Journal, 2021, 21, 17180-17188.	4.7	33
51	On-body path gain variations with changing body posture and antenna position. , 2005, , .		32
52	Diagnosis of the Hypopnea syndrome in the early stage. Neural Computing and Applications, 2020, 32, 855-866.	5.6	32
53	Discrete Human Activity Recognition and Fall Detection by Combining FMCW RADAR Data of Heterogeneous Environments for Independent Assistive Living. Electronics (Switzerland), 2021, 10, 2237.	3.1	32
54	Channel Characteristics and Wireless Telemetry Performance of Transplanted Organ Monitoring System Using Ultrawideband Communication. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2018, 2, 94-101.	3.4	31

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55	THz Time-Domain Spectroscopy of Human Skin Tissue for In-Body Nanonetworks. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 803-809.	3.1	30
56	Machine learning driven non-invasive approach of water content estimation in living plant leaves using terahertz waves. Plant Methods, 2019, 15, 138.	4.3	30
57	Localization of Wearable Ultrawideband Antennas for Motion Capture Applications. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 507-510.	4.0	29
58	Physical Layer Authentication in Nano Networks at Terahertz Frequencies for Biomedical Applications. IEEE Access, 2017, 5, 7808-7815.	4.2	28
59	Flexible millimetre-wave frequency reconfigurable antenna for wearable applications in 5G networks. , 2016, , .		26
60	Arm movements effect on ultra wideband on-body propagation channels and radio systems. , 2009, , .		25
61	Dielectric Characterization of Non-Conductive Fabrics for Temperature Sensing through Resonating Antenna Structures. Materials, 2020, 13, 1271.	2.9	25
62	A Review of Metasurfaces for Microwave Energy Transmission and Harvesting in Wireless Powered Networks. IEEE Access, 2021, 9, 27518-27539.	4.2	25
63	Non-Invasive Hydration Level Estimation in Human Body Using Galvanic Skin Response. IEEE Sensors Journal, 2020, 20, 4891-4900.	4.7	24
64	Analytical Characterisation of the Terahertz In-Vivo Nano-Network in the Presence of Interference Based on TS-OOK Communication Scheme. IEEE Access, 2017, 5, 10172-10181.	4.2	23
65	Characterization and Water Content Estimation Method of Living Plant Leaves Using Terahertz Waves. Applied Sciences (Switzerland), 2019, 9, 2781.	2.5	23
66	Making assembly line in supply chain robust and secure using UHF RFID. Scientific Reports, 2021, 11, 18041.	3.3	23
67	Experimental characterisation of ultra-wideband off-body radio channels considering antenna effects. IET Microwaves, Antennas and Propagation, 2013, 7, 370-380.	1.4	22
68	On the performance of compressed sensing-based methods for millimeter-wave holographic imaging. Applied Optics, 2016, 55, 728.	2.1	22
69	On-body propagation channel characterisation for UWB wireless body-centric networks. , 0, , .		21
70	Millimeter-wave frequency reconfigurable T-shaped antenna for 5G networks. , 2015, , .		21
71	Compressive Millimeter-Wave Phased Array Imaging. IEEE Access, 2016, 4, 9580-9588.	4.2	21
72	Graphene-based soft wearable antennas. Applied Materials Today, 2020, 20, 100727.	4.3	21

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73	An Efficient FDTD Algorithm Based on the Equivalence Principle for Analyzing Onbody Antenna Performance. IEEE Transactions on Antennas and Propagation, 2009, 57, 1006-1014.	5.1	20
74	Terahertz characterisation of living plant leaves for quality of life assessment applications. , 2018, , .		20
75	Flexible inkjet-printed graphene antenna on Kapton. Flexible and Printed Electronics, 2021, 6, 025010.	2.7	20
76	Radio channel models for UWB body-centric networks with compact planar antenna. , 2006, , .		19
77	Spatial Correlation Analysis of On-Body Radio Channels Considering Statistical Significance. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 780-783.	4.0	19
78	In-vivo characterisation and numerical analysis of the THz radio channel for nanoscale body-centric wireless networks. , 2013, , .		19
79	AN ADVANCED UWB CHANNEL MODEL FOR BODY-CENTRIC WIRELESS NETWORKS. Progress in Electromagnetics Research, 2013, 136, 79-99.	4.4	19
80	Modelling of the terahertz communication channel for in-vivo nano-networks in the presence of noise. , 2016, , .		19
81	Empty Substrate Integrated Waveguide Slot Antenna Array for 5G Applications. , 2018, , .		19
82	Impedance Enhancement of Textile Grounded Loop Antenna Using High-Impedance Surface (HIS) for Healthcare Applications. Sensors, 2020, 20, 3809.	3.8	19
83	Polarization reconfigurable ultrawideband antenna for cognitive radio applications. Microwave and Optical Technology Letters, 2013, 55, 501-506.	1.4	18
84	RF Sensing Based Breathing Patterns Detection Leveraging USRP Devices. Sensors, 2021, 21, 3855.	3.8	18
85	Screen Printing Carbon Nanotubes Textiles Antennas for Smart Wearables. Sensors, 2021, 21, 4934.	3.8	18
86	An Ultrawideband Microfabricated Gold-Based Antenna Array for Terahertz Communication. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2156-2160.	4.0	18
87	Experimental Characterization and Statistical Analysis of the Pseudo-Dynamic Ultrawideband On-Body Radio Channel. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 748-751.	4.0	17
88	Fidelity Pattern Analysis of a CPW-Fed Miniature UWB Antenna Using Different Excitation Pulses. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 494-498.	4.0	17
89	Millimetre-wave T-shaped antenna with defected ground structures for 5G wireless networks. , 2016, , .		17
90	Dielectric and Double Debye Parameters of Artificial Normal Skin and Melanoma. Journal of Infrared, Millimeter, and Terahertz Waves, 2019, 40, 657-672.	2.2	17

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91	Terahertz Antenna Array Based on a Hybrid Perovskite Structure. IEEE Open Journal of Antennas and Propagation, 2020, 1, 464-471.	3.7	17
92	Reconfigurable printed UWB circular disc monopole antenna. , 2011, , .		16
93	Improving Machine Learning Classification Accuracy for Breathing Abnormalities by Enhancing Dataset. Sensors, 2021, 21, 6750.	3.8	16
94	Fibroblasts cell number density based human skin characterization at THz for in-body nanonetworks. Nano Communication Networks, 2016, 10, 60-67.	2.9	15
95	Impact of Cell Density and Collagen Concentration on the Electromagnetic Properties of Dermal Equivalents in the Terahertz Band. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 381-389.	3.1	15
96	F-TOUCH Sensor: Concurrent Geometry Perception and Multi-Axis Force Measurement. IEEE Sensors Journal, 2021, 21, 4300-4309.	4.7	15
97	A multiband circular polarization selective metasurface for microwave applications. Scientific Reports, 2021, 11, 1774.	3.3	15
98	Reconfigured and Notched Tapered Slot UWB Antenna for Cognitive Radio Applications. International Journal of Antennas and Propagation, 2012, 2012, 1-8.	1.2	14
99	Ultrawideband-Based 3-D Localization Using Compact Base-Station Configurations. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 221-224.	4.0	14
100	Quantitative Analysis of the Subject-Specific On-Body Propagation Channel Based on Statistically Created Models. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 398-401.	4.0	14
101	Near-Field Millimeter-Wave Phased Array Imaging With Compressive Sensing. IEEE Access, 2017, 5, 18975-18986.	4.2	14
102	An Elastomer-based Flexible Optical Force and Tactile Sensor. , 2019, , .		14
103	A Cooperative Massive MIMO System for Future <i>In Vivo</i> Nanonetworks. IEEE Systems Journal, 2021, 15, 331-337.	4.6	14
104	Experimental Investigation of Body-Centric Indoor Localization Using Compact Wearable Antennas and Machine Learning Algorithms. IEEE Transactions on Antennas and Propagation, 2022, 70, 1344-1354.	5.1	14
105	Multiple-parameter reconfiguration in a single planar ultra-wideband antenna for advanced wireless communication systems. IET Microwaves, Antennas and Propagation, 2014, 8, 849-857.	1.4	13
106	In-vivo terahertz EM channel characterization for nano-communications in WBANs. , 2016, , .		13
107	Design and analysis of all-optical up- and down-wavelength converter based on FWM of SOA-MZI for 60ÅGbps RZ data signal. Photonic Network Communications, 2017, 34, 288-297.	2.7	13
108	An inkjet-printed MMW frequency-reconfigurable antenna on a flexible PET substrate for 5G wireless systems. , 2017, , .		13

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109	System-level modelling of optimal ultra wideband body-centric wireless network. , 2009, , .		12
110	Dual band and dual mode antenna for power efficient body-centric wireless communications. , 2011, , .		12
111	Design and performance analysis of narrow band textile antenna for three different substrate permittivity materials and bending consequence. , 2011, , .		12
112	Performance of Ultrawideband Wireless Tags for On-Body Radio Channel Characterisation. International Journal of Antennas and Propagation, 2012, 2012, 1-10.	1.2	12
113	Numerical analysis of the communication channel path loss at the THz band inside the fat tissue. , 2013, , .		12
114	Experimental Evaluation of MIMO Capacity for Ultrawideband Body-Centric Wireless Propagation Channels. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 495-498.	4.0	12
115	Ultra wideband antenna diversity characterisation for off-body communications in an indoor environment. IET Microwaves, Antennas and Propagation, 2014, 8, 1161-1169.	1.4	12
116	A K-band antenna based on an enhanced Franklin model for 5G cellular networks. Microwave and Optical Technology Letters, 2018, 60, 1562-1566.	1.4	12
117	A 60-GHz Ultra-Thin and Flexible Metasurface for Frequency-Selective Wireless Applications. Applied Sciences (Switzerland), 2019, 9, 945.	2.5	12
118	A low-profile 28GHz Rotman lens-fed array beamformer for 5G conformal subsystems. Microwave and Optical Technology Letters, 2019, 61, 671-675.	1.4	12
119	Wireless on Walls: Revolutionizing the future of health care. IEEE Antennas and Propagation Magazine, 2021, 63, 87-93.	1.4	12
120	Empty Substrate-Integrated Waveguide-Fed Patch Antenna Array for 5G Millimeter-Wave Communication Systems. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 776-780.	4.0	12
121	Analytical and Experimental Investigations on Ultrawideband Pulse Width and Shape Effect on the Accuracy of 3-D Localization. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1116-1119.	4.0	11
122	Collagen Analysis at Terahertz Band Using Double-Debye Parameter Extraction and Particle Swarm Optimisation. IEEE Access, 2017, 5, 27850-27856.	4.2	11
123	Millimeter-wave conformal antenna array for 5G wireless applications. , 2017, , .		11
124	Design and characterisation of a screen-printed millimetre-wave flexible metasurface using copper ink for communication applications. Flexible and Printed Electronics, 2018, 3, 045005.	2.7	11
125	Modulation Mode Detection and Classification for <i>In Vivo</i> Nano-Scale Communication Systems Operating in Terahertz Band. IEEE Transactions on Nanobioscience, 2019, 18, 10-17.	3.3	11
126	Time domain characterisation of ultra wideband wearable antennas and radio propagation for body-centric wireless networks in healthcare applications. , 2008, , .		10

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127	A pattern-reconfigurable parasitic patch antenna using BAR and HPND PIN Diode. , 2014, , .		10
128	Ka-band Flexible Koch Fractal Antenna with Defected Ground Structure for 5G Wearable and Conformal Applications. , 2018, , .		10
129	Performance Evaluation of Routing Protocols in Electromagnetic Nanonetworks. IEEE Access, 2018, 6, 35908-35914.	4.2	10
130	Single-element reconfigurable planar ultra wideband antenna for cognitive radio front end. , 2011, , .		9
131	Study of Ultra wideband localisation techniques using various monitoring configurations. , 2012, , .		9
132	What to Put on the User. , 2018, , .		9
133	Terahertz Sensing for Fruit Spoilage Monitoring. , 2019, , .		9
134	Statistical and deterministic modelling of radio propagation channels in WBAN at 2.45GHz. , 2006, , .		8
135	Characterization of MB-OFDM-Based Ultrawideband Systems for Body-Centric Wireless Communications. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1401-1404.	4.0	8
136	COMPARISON OF TWO MEASUREMENT TECHNIQUES FOR UWB OFF-BODY RADIO CHANNEL CHARACTERISATION. Progress in Electromagnetics Research M, 2012, 27, 179-189.	0.9	8
137	Experimental Investigation of Subject-Specific On-Body Radio Propagation Channels for Body-Centric Wireless Communications. Electronics (Switzerland), 2014, 3, 26-42.	3.1	8
138	Double Threshold Authentication Using Body Area Radio Channel Characteristics. IEEE Communications Letters, 2016, 20, 2099-2102.	4.1	8
139	Reconfigurable textile-based ultra-wideband antenna for wearable applications. , 2016, , .		8
140	Effects of non-flat interfaces in human skin tissues on the in-vivo Tera-Hertz communication channel. Nano Communication Networks, 2016, 8, 16-24.	2.9	8
141	Base-Station Random Placement Effect on the Accuracy of Ultrawideband Body-Centric Localization Applications. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1319-1323.	4.0	8
142	A Terahertz Electromagnetically Induced Transparency-Like Metamaterial for Biosensing. , 2021, , .		8
143	Multi-target tracking and activity classification with millimeter-wave radar. Applied Physics Letters, 2021, 119, .	3.3	8
144	Radio Channel Characterisation and OFDM-based Ultra Wideband System Modelling for Body-Centric Wireless Networks. , 2011, , .		7

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145	Understanding and characterizing nanonetworks for healthcare monitoring applications. , 2014, , .		7
146	ANALYTICAL AND NUMERICAL EVALUATIONS OF FLEXIBLE V-BAND ROTMAN LENS BEAMFORMING NETWORK PERFORMANCE FOR CONFORMAL WIRELESS SUBSYSTEMS. Progress in Electromagnetics Research B, 2016, 71, 77-89.	1.0	7
147	Reverse recognition of body postures using on-body radio channel characteristics. IET Microwaves, Antennas and Propagation, 2017, 11, 1212-1217.	1.4	7
148	Antenna Systems for Internet of Things. Wireless Communications and Mobile Computing, 2018, 2018, 1-2.	1.2	7
149	Flexible and Wearable Graphene-based Terahertz Antenna for Body-Centric Applications. , 2019, , .		7
150	High Bandwidth Perovskite based Antenna for High-Resolution Biomedical Imaging at Terahertz. , 2019, , .		7
151	UWB Channel Characterization for Compact L-Shape Configurations for Body-Centric Positioning Applications. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 29-33.	4.0	7
152	Machine learning enabled identification and real-time prediction of living plants's stress using terahertz waves. Defence Technology, 2022, 18, 1330-1339.	4.2	7
153	Recent development of Ultra Wideband body-centric wireless communications. , 2010, , .		6
154	Numerical analysis of on-body channel for statistically-generated body shapes. , 2011, , .		6
155	Ultra wideband antenna diversity techniques for on/off-body radio channel characterisation. , 2012, , .		6
156	A planar dual fed UWB monopole antenna with polarization diversity for cognitive radio sensing. , 2012, , .		6
157	Experimental investigation of efficient Ultra Wideband localisation techniques in the indoor environment. , 2013, , .		6
158	Characterizing Physically Transient Antennas. IEEE Transactions on Antennas and Propagation, 2015, 63, 2421-2429.	5.1	6
159	Condition number variability of ultra wideband MIMO on body channels. , 2016, , .		6
160	IEEE Access Special Section Editorial: Nano-Antennas, Nano-Transceivers and Nano-Networks/Communications. IEEE Access, 2018, 6, 8270-8272.	4.2	6
161	Channel Impulse Response-based Physical Layer Authentication in a Diffusion-based Molecular Communication System. , 2019, , .		6
162	Evaluation of ultra-wideband in vivo radio channel and its effects on system performance. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3530.	3.9	6

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163	Design and development of a multi-functional bi-anisotropic metasurface with ultra-wide out of band transmission. Scientific Reports, 2021, 11, 24244.	3.3	6
164	Characterisation of printed UWB antennas for on-body communications. , 2005, , .		5
165	Characterization and modelling of Ultra Wideband radio links for optimum performance of body area network in health care applications. , 2011, , .		5
166	Ultra wideband off-body radio channel characterisation and modelling for healthcare applications. , 2012, , .		5
167	Ultra wideband off-body radio channel characterisation for different environments. , 2012, , .		5
168	Polarisation reconfigurable ultra wideband antenna for cognitive radio devices. , 2013, , .		5
169	Multi-directional beam of patch antenna. , 2014, , .		5
170	RSSI indoor localization through a Bayesian strategy. , 2017, , .		5
171	Camera-Based Force and Tactile Sensor. Lecture Notes in Computer Science, 2018, , 438-450.	1.3	5
172	A Wearable Reconfigurable Electromagnetic Metamaterial Absorber using Artificial Magnetic Inclusions. , 2019, , .		5
173	A multifunctional ultrathin flexible bianisotropic metasurface with miniaturized cell size. Scientific Reports, 2021, 11, 18426.	3.3	5
174	Modelling and Characterisation of a Compact Sensor Antenna for Healthcare Applications. , 2007, , 3-8.		5
175	UWB body-centric network: radio channel characteristics and deterministic propagation modelling. , 2006, , .		5
176	Effect of human body movements on performance of multiband OFDM based ultra wideband wireless communication system. , 2010, , .		4
177	Off-Body Radio Channel Characterisation Using Ultra Wideband Wireless Tags. , 2010, , .		4
178	Statistical analysis of small-scale channel parameters for ultra wideband radio channels in body-centric wireless networks. , 2011, , .		4
179	Investigation of the effect of fabric in on-body communication using Finite Difference Time Domain technique at 60GHz. , 2012, , .		4
180	On-body radio channel performance of a small printed quasi-self-complementary ultra wideband antenna. , 2013, , .		4

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181	Time domain analysis of a miniature tapered-slot UWB antenna. , 2014, , .		4
182	Characterising skin-based nano-networks for healthcare monitoring applications at THz. , 2015, , .		4
183	Radio telemetry performance of liver implanted ultra wideband antenna. , 2017, , .		4
184	Empty Substrate Integrated Waveguide Planar Slot Antenna Array for 5G Wireless Systems. , 2019, , .		4
185	Graphene Inkjet-Printed Ultrawideband Tapered Coplanar-Waveguide Antenna on Kapton Substrate. , 2021, , .		4
186	Influence of spatial distribution of base-stations on off-body path loss statistics for wireless body area network applications. <i>Wireless Networks</i> , 2021, 27, 4759-4772.	3.0	4
187	Cooperative and Low-Power Wireless Sensor Network for Efficient Body-Centric Communications in Healthcare Applications. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2013, , 351-360.	0.3	4
188	Ultra-wideband Hybrid PICA Terahertz Antenna for High-Resolution Biomedical Imaging. , 2020, , .		4
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