

Akram Alomainy

List of Publications by Year in descending order

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296
papers

6,288
citations

87888

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h-index

98798

67
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316
all docs

316
docs citations

316
times ranked

4090
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave and Terahertz Sensing. , 2023, , 489-496.		1
2	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
3	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
4	Machine Learning approach to Predict Cognitive Performance using HRV. , 2022, , .		0
5	Terahertz Metastructures for Noninvasive Biomedical Sensing and Characterization in Future Health Care [Bioelectromagnetics]. IEEE Antennas and Propagation Magazine, 2022, 64, 60-70.	1.4	4
6	Integration of Spatial Modulation Scheme With Code Division Multiple Access for VIVO Based Frequency Selective Nano Sensor Networks. IEEE Sensors Journal, 2022, 22, 12245-12252.	4.7	0
7	Non-Invasive Solutions to Identify Distinctions Between Healthy and Mild Cognitive Impairments Participants. IEEE Journal of Translational Engineering in Health and Medicine, 2022, 10, 1-6.	3.7	4
8	Dielectric Characterization and Chemical Concentration Sensing using T-Shaped Antenna. , 2022, , .		0
9	3D Printed Slotted Waveguide Antenna Array for Millimeter-wave Communication Systems. , 2022, , .		1
10	Barrier bucket gymnastics and transversely split proton beams: Performance at the CERN Proton and Super Proton Synchrotrons. Physical Review Accelerators and Beams, 2022, 25, .	1.6	1
11	A Terahertz Metasurface for Thin Film Biosensing. , 2022, , .		1
12	Wireless on Walls: Revolutionizing the future of health care. IEEE Antennas and Propagation Magazine, 2021, 63, 87-93.	1.4	12
13	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
14	A Cooperative Massive MIMO System for Future <i>In Vivo</i> Nanonetworks. IEEE Systems Journal, 2021, 15, 331-337.	4.6	14
15	F-TOUCH Sensor: Concurrent Geometry Perception and Multi-Axis Force Measurement. IEEE Sensors Journal, 2021, 21, 4300-4309.	4.7	15
16	A multiband circular polarization selective metasurface for microwave applications. Scientific Reports, 2021, 11, 1774.	3.3	15
17	Study of Antenna Misalignment Effects on Path Loss for a Liver-implant Channel. , 2021, , .		0
18	Miniaturized Meander-Line Dipole Antenna For Short-Range Wireless Communication Networks. , 2021, , .		1

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19	A Terahertz Electromagnetically Induced Transparency-Like Metamaterial for Biosensing. , 2021, , .		8
20	Graphene Inkjet-Printed Ultrawideband Tapered Coplanar-Waveguide Antenna on Kapton Substrate. , 2021, , .		4
21	Securing the Insecure: A First-Line-of-Defense for Body-Centric Nanoscale Communication Systems Operating in THz Band. Sensors, 2021, 21, 3534.	3.8	3
22	Flexible inkjet-printed graphene antenna on Kapton. Flexible and Printed Electronics, 2021, 6, 025010.	2.7	20
23	RF Sensing Based Breathing Patterns Detection Leveraging USRP Devices. Sensors, 2021, 21, 3855.	3.8	18
24	Multi-target tracking and activity classification with millimeter-wave radar. Applied Physics Letters, 2021, 119, .	3.3	8
25	Screen Printing Carbon Nanotubes Textiles Antennas for Smart Wearables. Sensors, 2021, 21, 4934.	3.8	18
26	Influence of spatial distribution of base-stations on off-body path loss statistics for wireless body area network applications. Wireless Networks, 2021, 27, 4759-4772.	3.0	4
27	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
28	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
29	A multifunctional ultrathin flexible bianisotropic metasurface with miniaturized cell size. Scientific Reports, 2021, 11, 18426.	3.3	5
30	Making assembly line in supply chain robust and secure using UHF RFID. Scientific Reports, 2021, 11, 18041.	3.3	23
31	A Review of Metasurfaces for Microwave Energy Transmission and Harvesting in Wireless Powered Networks. IEEE Access, 2021, 9, 27518-27539.	4.2	25
32	An Ultrawideband Microfabricated Gold-Based Antenna Array for Terahertz Communication. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2156-2160.	4.0	18
33	A Miniaturized Series Fed Tri-Slot Coplanar Vivaldi Antenna for RADAR Application With Reduced Ground Plane Effect. IEEE Open Journal of Antennas and Propagation, 2021, 2, 949-953.	3.7	0
34	Improving Machine Learning Classification Accuracy for Breathing Abnormalities by Enhancing Dataset. Sensors, 2021, 21, 6750.	3.8	16
35	Guest Editorial: Special Cluster on Antenna Considerations for Future Millimeter-Wave and Terahertz Wireless Systems. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2130-2135.	4.0	0
36	Folded Terahertz Antenna based on \$MoS_{2}\$ and Gold for Biomedical Imaging. , 2021, , .		0

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37	A Miniaturized Wideband 3 dB Rat-Race Coupler Utilizing Meander Lines. , 2021, , .		0
38	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
39	Diagnosis of the Hypopnea syndrome in the early stage. Neural Computing and Applications, 2020, 32, 855-866.	5.6	32
40	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
41	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
42	An Overview of Electromagnetic Band-Gap Integrated Wearable Antennas. IEEE Access, 2020, 8, 7641-7658.	4.2	66
43	Non-Invasive Hydration Level Estimation in Human Body Using Galvanic Skin Response. IEEE Sensors Journal, 2020, 20, 4891-4900.	4.7	24
44	Millimetre-Wave MIMO Array of a Compact Grid Antenna for 5G Wireless Networks and Beyond. , 2020, , .		3
45	Hybrid Metal-Graphene Ultra-Wideband Antenna. , 2020, , .		2
46	Impedance Enhancement of Textile Grounded Loop Antenna Using High-Impedance Surface (HIS) for Healthcare Applications. Sensors, 2020, 20, 3809.	3.8	19
47	Graphene-based soft wearable antennas. Applied Materials Today, 2020, 20, 100727.	4.3	21
48	Effect of A Superstrate on On-Head Matched Antennas for Biomedical Applications. Electronics (Switzerland), 2020, 9, 1099.	3.1	0
49	Terahertz Antenna Array Based on a Hybrid Perovskite Structure. IEEE Open Journal of Antennas and Propagation, 2020, 1, 464-471.	3.7	17
50	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
51	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
52	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
53	Dielectric Characterization of Non-Conductive Fabrics for Temperature Sensing through Resonating Antenna Structures. Materials, 2020, 13, 1271.	2.9	25
54	Populated power plane for wideband switching noise mitigation using CSRRs. International Journal of Electronics Letters, 2020, , 1-9.	1.2	0

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55	Ultra-wideband Hybrid PICA Terahertz Antenna for High-Resolution Biomedical Imaging. , 2020, , .		4
56	Investigation of In-body to Off-Body Wireless Telemetry Performance Considering Respiration-induced Organ Movements for Transplanted Organ Monitoring. , 2020, , .		0
57	Double-layered Metamaterial Structure for Chemical Concentration and Strain Sensing. , 2020, , .		0
58	F-TOUCH Sensor for Three-Axis Forces Measurement and Geometry Observation. , 2020, , .		3
59	Detecting Cognitive Decline in Early Alzheimerâ€™s Patients Using Wearable Technologies. , 2020, , .		0
60	Introducing a Novel Technique of Detecting Fruits Contaminations Using Terahertz Sensing. , 2019, , .		1
61	Characterization and Water Content Estimation Method of Living Plant Leaves Using Terahertz Waves. Applied Sciences (Switzerland), 2019, 9, 2781.	2.5	23
62	Wearable Wireless Devices. Applied Sciences (Switzerland), 2019, 9, 2643.	2.5	3
63	Elastomer-Based Touch Sensor: Visualization of Tactile Pressure Distribution. Lecture Notes in Computer Science, 2019, , 87-98.	1.3	2
64	IEEE Access Special Section Editorial: Wearable and Implantable Devices and Systems. IEEE Access, 2019, 7, 139512-139517.	4.2	0
65	An Elastomer-based Flexible Optical Force and Tactile Sensor. , 2019, , .		14
66	A Wearable Reconfigurable Electromagnetic Metamaterial Absorber using Artificial Magnetic Inclusions. , 2019, , .		5
67	EFFECT OF LIMB MOVEMENTS ON COMPACT UWB WEARABLE ANTENNA RADIATION PERFORMANCE FOR HEALTHCARE MONITORING. Progress in Electromagnetics Research C, 2019, 91, 15-26.	0.9	3
68	Electromagnetic Properties of Plant Leaves at Terahertz Frequencies for Health Status Monitoring. , 2019, , .		3
69	Skin Conductance as Proxy for the Identification of Hydration Level in Human Body. , 2019, , .		1
70	Terahertz Sensing for Fruit Spoilage Monitoring. , 2019, , .		9
71	Monitoring the Variability of Water Dynamics in Plant Leaves at Cellular Level Using Terahertz Sensing. , 2019, , .		1
72	Flexible and Wearable Graphene-based Terahertz Antenna for Body-Centric Applications. , 2019, , .		7

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73	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
74	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
75	A 60-GHz Ultra-Thin and Flexible Metasurface for Frequency-Selective Wireless Applications. Applied Sciences (Switzerland), 2019, 9, 945.	2.5	12
76	Channel Impulse Response-based Physical Layer Authentication in a Diffusion-based Molecular Communication System. , 2019, , .		6
77	Beam manipulations with barrier buckets in the CERN PS. Journal of Physics: Conference Series, 2019, 1350, 012088.	0.4	2
78	Fabric Antenna for Temperature Sensing over ISM Frequency Band. , 2019, , .		2
79	Indoor Material Properties Extraction from Scattering Parameters at Frequencies from 750 GHz to 1.1 THz. , 2019, , .		3
80	Empty Substrate Integrated Waveguide Planar Slot Antenna Array for 5G Wireless Systems. , 2019, , .		4
81	Graphene-based Textile Ultra Wideband Antennas for Integrated and Wearable Applications. , 2019, , .		3
82	Monitoring Quality Control of Fruits Using Terahertz Sensing. , 2019, , .		0
83	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
84	High Bandwidth Perovskite based Antenna for High-Resolution Biomedical Imaging at Terahertz. , 2019, , .		7
85	Establishing A Novel Technique for the Detection of Water Contamination Using Terahertz Waves. , 2019, , .		1
86	Millimeter-Wave Compact and High-Performance Two-Dimensional Grid Array for 5G Applications. , 2019, , .		3
87	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
88	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
89	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
90	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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91	A low-profile 28-GHz Rotman lens-fed array beamformer for 5G conformal subsystems. Microwave and Optical Technology Letters, 2019, 61, 671-675.	1.4	12
92	Barrier bucket and transversely split beams for loss-free multi-turn extraction in synchrotrons. Europhysics Letters, 2019, 128, 14002.	2.0	4
93	Numerical Channel Characterizations for Liver-Implanted Communications Considering Different Human Subjects. IEICE Transactions on Communications, 2019, E102.B, 876-883.	0.7	3
94	Power Distribution and Performance Analysis of Terahertz Communication in Artificial Skin. , 2019, , .		1
95	IEEE Access Special Section Editorial: Nano-Antennas, Nano-Transceivers and Nano-Networks/Communications. IEEE Access, 2018, 6, 8270-8272.	4.2	6
96	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
97	What to Put on the User. , 2018, , .		9
98	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
99	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
100	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
101	Evaluation of Data Dissemination Schemes in Electromagnetic Nanosensor Networks. , 2018, , .		0
102	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
103	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
104	Ka-band Flexible Koch Fractal Antenna with Defected Ground Structure for 5G Wearable and Conformal Applications. , 2018, , .		10
105	Design and Performance of a Flexible 60-GHz Rotman Lens-Based Array Beamformer. , 2018, , .		2
106	Comparative study of compressive sensing imaging in different array configurations. , 2018, , .		0
107	High Sensitivity Inkjet-Printed Terahertz Metallic Hole Array Sensor. , 2018, , .		0
108	Experimental Characterization of Artificial Human Skin with Melanomas for Accurate Modelling and Detection in Healthcare Application. , 2018, , .		3

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109	Empty Substrate Integrated Waveguide Slot Antenna Array for 5G Applications. , 2018, , .		19
110	Inkjet-Printed Millimetre-Wave PET-Based Flexible Antenna for 5G Wireless Applications. , 2018, , .		38
111	Antenna Systems for Internet of Things. Wireless Communications and Mobile Computing, 2018, 2018, 1-2.	1.2	7
112	Enhanced 3D localisation accuracy of body-mounted miniature antennas using ultra-wideband technology in line-of-sight scenarios. IET Microwaves, Antennas and Propagation, 2018, 12, 1-8.	1.4	3
113	Impact of Fibroblast Cell Density on the Material Parameters of Thin Artificial Human Skin in the Terahertz Band. , 2018, , .		0
114	Empty Substrate Integrated Waveguide-Fed MMW Aperture-Coupled Patch Antenna for 5G Applications. , 2018, , .		3
115	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
116	Camera-Based Force and Tactile Sensor. Lecture Notes in Computer Science, 2018, , 438-450.	1.3	5
117	Multiple antenna techniques for terahertz nano-bio communication. , 2018, , .		1
118	Terahertz characterisation of living plant leaves for quality of life assessment applications. , 2018, , .		20
119	Performance Evaluation of Data Dissemination in EM Nanonetworks. , 2018, , .		0
120	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
121	Low-profile flexible frequency-reconfigurable millimetre-wave antenna for 5G applications. Flexible and Printed Electronics, 2018, 3, 035003.	2.7	38
122	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
123	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
124	Performance Evaluation of Routing Protocols in Electromagnetic Nanonetworks. IEEE Access, 2018, 6, 35908-35914.	4.2	10
125	Collagen Analysis at Terahertz Band Using Double-Debye Parameter Extraction and Particle Swarm Optimisation. IEEE Access, 2017, 5, 27850-27856.	4.2	11
126	Design and analysis of all-optical up- and down-wavelength converter based on FWM of SOA-MZI for 60ÂGbps RZ data signal. Photonic Network Communications, 2017, 34, 288-297.	2.7	13

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127	Physical Layer Authentication in Nano Networks at Terahertz Frequencies for Biomedical Applications. IEEE Access, 2017, 5, 7808-7815.	4.2	28
128	Radio telemetry performance of liver implanted ultra wideband antenna. , 2017, , .		4
129	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
130	Cooperative In-Vivo Nano-Network Communication at Terahertz Frequencies. IEEE Access, 2017, 5, 8642-8647.	4.2	40
131	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
132	Anatomical Region-Specific In Vivo Wireless Communication Channel Characterization. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1254-1262.	6.3	33
133	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
134	Near-Field Millimeter-Wave Phased Array Imaging With Compressive Sensing. IEEE Access, 2017, 5, 18975-18986.	4.2	14
135	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
136	Reverse recognition of body postures using on-body radio channel characteristics. IET Microwaves, Antennas and Propagation, 2017, 11, 1212-1217.	1.4	7
137	Millimeter-wave conformal antenna array for 5G wireless applications. , 2017, , .		11
138	Dielectric constant measurement of collagen at terahertz band using terahertz time domain spectroscopy. , 2017, , .		0
139	Luneburg lens imaging with compressive sensing. , 2017, , .		1
140	RSSI indoor localization through a Bayesian strategy. , 2017, , .		5
141	Wireless telemetry performance of transplanted organ monitoring at ultra wideband range considering respiration-induced organ movement. , 2017, , .		2
142	An inkjet-printed MMW frequency-reconfigurable antenna on a flexible PET substrate for 5G wireless systems. , 2017, , .		13
143	DESIGN AND PERFORMANCE ANALYSIS OF MILLIMETRE-WAVE ROTMAN LENS-BASED ARRAY BEAMFORMING NETWORKS FOR LARGE-SCALE ANTENNA SUBSYSTEMS. Progress in Electromagnetics Research C, 2017, 78, 159-171.	0.9	2
144	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

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145	THz time domain characterization of human skin tissue for nano-electromagnetic communication. , 2016, , .		0
146	Modelling of the terahertz communication channel for in-vivo nano-networks in the presence of noise. , 2016, , .		19
147	Millimetre-wave T-shaped antenna with defected ground structures for 5G wireless networks. , 2016, , .		17
148	A flexible printed millimetre-wave beamforming network for WiGig and 5G wireless subsystems. , 2016, , .		3
149	Compressive Millimeter-Wave Phased Array Imaging. IEEE Access, 2016, 4, 9580-9588.	4.2	21
150	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
151	Double Threshold Authentication Using Body Area Radio Channel Characteristics. IEEE Communications Letters, 2016, 20, 2099-2102.	4.1	8
152	Fibroblasts cell number density based human skin characterization at THz for in-body nanonetworks. Nano Communication Networks, 2016, 10, 60-67.	2.9	15
153	Flexible millimetre-wave frequency reconfigurable antenna for wearable applications in 5G networks. , 2016, , .		26
154	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
155	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
156	Resolution analysis of compressed sensing based methods for single frequency radar imaging. , 2016, , .		0
157	In-vivo terahertz EM channel characterization for nano-communications in WBANs. , 2016, , .		13
158	Channel modelling of human tissues at terahertz band. , 2016, , .		3
159	Characterization of Volumetric Change in Collagen using THz Time Domain Spectroscopy for In-Body Nanonetworks. , 2016, , .		0
160	Reconfigurable textile-based ultra-wideband antenna for wearable applications. , 2016, , .		8
161	On the performance of compressed sensing-based methods for millimeter-wave holographic imaging. Applied Optics, 2016, 55, 728.	2.1	22
162	Condition number variability of ultra wideband MIMO on body channels. , 2016, , .		6

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163	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
164	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
165	Characterizing Physically Transient Antennas. IEEE Transactions on Antennas and Propagation, 2015, 63, 2421-2429.	5.1	6
166	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
167	Statistical characterization of physically transient antennas. , 2015, , .		0
168	Multiband-OFDM based ultra wideband system modelling of on/off-body antenna diversity. , 2015, , .		1
169	Millimeter-wave frequency reconfigurable T-shaped antenna for 5G networks. , 2015, , .		21
170	Characterising skin-based nano-networks for healthcare monitoring applications at THz. , 2015, , .		4
171	Terahertz signal propagation analysis inside the human skin. , 2015, , .		3
172	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
173	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
174	Sparsity-Inspired Nonparametric Probability Characterization for Radio Propagation in Body Area Networks. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 858-865.	6.3	3
175	Body Sensor Networks: In the Era of Big Data and Beyond. IEEE Reviews in Biomedical Engineering, 2015, 8, 4-16.	18.0	111
176	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
177	Terahertz Communications in Human Tissues at the Nanoscale for Healthcare Applications. IEEE Nanotechnology Magazine, 2015, 14, 404-406.	2.0	75
178	Report on IEEE MTT-S IMWS-Bio 2014 [Conference Report]. IEEE Microwave Magazine, 2015, 16, 70-73.	0.8	0
179	Towards sparse characterisation of on-body ultra-wideband wireless channels. Healthcare Technology Letters, 2015, 2, 74-77.	3.3	1
180	Investigating Electromagnetic Material Properties of Collagen at THz for Health Monitoring Applications. , 2015, , .		3

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181	Compact and Efficient Reconfigurable Antennas for Flexible Radio Front-End in Cognitive Radio Systems. Advances in Wireless Technologies and Telecommunication Book Series, 2015, , 584-602.	0.4	0
182	Experimental Investigation of Subject-Specific On-Body Radio Propagation Channels for Body-Centric Wireless Communications. Electronics (Switzerland), 2014, 3, 26-42.	3.1	8
183	Investigative analysis of the influence of different simplified human body models on a miniature ultra-wideband antenna. , 2014, , .		0
184	Numerical investigation on the dependence of on-body channel characteristics on anthropomorphic variation of human body. , 2014, , .		0
185	Modelling of skin tissue for body-centric communications at terahertz frequencies. , 2014, , .		0
186	Ultrawideband-Based 3-D Localization Using Compact Base-Station Configurations. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 221-224.	4.0	14
187	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
188	Multi-directional beam of patch antenna. , 2014, , .		5
189	On the sparse non-parametric model for body-centric ultra-wideband channel. , 2014, , .		0
190	Understanding and characterizing nanonetworks for healthcare monitoring applications. , 2014, , .		7
191	Experimental investigation of 3D localisation of an on-body UWB antenna using several base stations. , 2014, , .		2
192	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
193	Time domain analysis of a miniature tapered-slot UWB antenna. , 2014, , .		4
194	Indoor tracking of human movements using UWB technology for motion capture. , 2014, , .		3
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