

Robin Augustine

List of Publications by Year in descending order

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65
papers

515
citations

759233

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65
all docs

65
docs citations

65
times ranked

311
citing authors

#	ARTICLE	IF	CITATIONS
1	Topology Optimization of Planar Antennas for Wideband Near-Field Coupling. IEEE Transactions on Antennas and Propagation, 2015, 63, 4208-4213.	5.1	56
2	Characterization of the Fat Channel for Intra-Body Communication at R-Band Frequencies. Sensors, 2018, 18, 2752.	3.8	38
3	Intra-body microwave communication through adipose tissue. Healthcare Technology Letters, 2017, 4, 115-121.	3.3	31
4	Noninvasive Osseointegration Analysis of Skull Implants With Proximity Coupled Split Ring Resonator Antenna. IEEE Transactions on Antennas and Propagation, 2014, 62, 5431-5436.	5.1	24
5	Data Packet Transmission Through Fat Tissue for Wireless IntraBody Networks. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2017, 1, 43-51.	3.4	24
6	Dual MIMO Antenna System for 5G Mobile Phones, 5.2 GHz WLAN, 5.5 GHz WiMAX and 5.8/6 GHz WiFi Applications. IEEE Access, 2021, 9, 106734-106742.	4.2	20
7	Analysis of Thickness Variation in Biological Tissues Using Microwave Sensors for Health Monitoring Applications. IEEE Access, 2019, 7, 156033-156043.	4.2	19
8	Split-Ring Resonator Sensor Penetration Depth Assessment Using In Vivo Microwave Reflectivity and Ultrasound Measurements for Lower Extremity Trauma Rehabilitation. Sensors, 2018, 18, 636.	3.8	16
9	Toward environmentally friendly direct reduced iron production: A novel route of comprehensive utilization of blast furnace dust and electric arc furnace dust. Waste Management, 2021, 135, 389-396.	7.4	16
10	Reliability of the fat tissue channel for intra-body microwave communication. , 2017, , .		15
11	Real-time visual biofeedback during weight bearing improves therapy compliance in patients following lower extremity fractures. Gait and Posture, 2018, 59, 206-210.	1.4	15
12	Design of Metamaterial Based Efficient Wireless Power Transfer System Utilizing Antenna Topology for Wearable Devices. Sensors, 2021, 21, 3448.	3.8	14
13	Gain-enhancement technique for wearable patch antenna using grounded metamaterial. IET Microwaves, Antennas and Propagation, 2020, 14, 2045-2052.	1.4	14
14	MAS: Standalone Microwave Resonator to Assess Muscle Quality. Sensors, 2021, 21, 5485.	3.8	12
15	Microwave sensors for new approach in monitoring hip fracture healing. , 2017, , .		11
16	Microwave reflectivity analysis of bone mineral density using ultra wide band antenna. Microwave and Optical Technology Letters, 2017, 59, 21-26.	1.4	11
17	Biocompatibility study of hydroxyapatite-chitosan composite for medical applications at microwave frequencies. Microwave and Optical Technology Letters, 2008, 50, 2931-2934.	1.4	10
18	A UWB sensor based on resistively-loaded dipole antenna for skull healing on cranial surgery phantom models. Microwave and Optical Technology Letters, 2018, 60, 897-905.	1.4	10

#	ARTICLE	IF	CITATIONS
19	Experimental Procedure for Determination of the Dielectric Properties of Biological Samples in the 2-50 GHz Range. IEEE Journal of Translational Engineering in Health and Medicine, 2014, 2, 1-8.	3.7	9
20	Design of open ended circular waveguide for non-invasive monitoring of cranial healing in pediatric craniosynostosis. , 2017, , .		9
21	Assessment of Blood Vessel Effect on Fat-Intrabody Communication Using Numerical and Ex-Vivo Models at 2.45 GHz. IEEE Access, 2019, 7, 89886-89900.	4.2	9
22	Microwave phantoms for craniotomy follow-up probe development. , 2014, , .		8
23	Initial In-Vitro Trial for Intra-Cranial Pressure Monitoring Using Subdermal Proximity-Coupled Split-Ring Resonator. , 2018, , .		8
24	Effect of Thickness Inhomogeneity in Fat Tissue on In-Body Microwave Propagation. , 2018, , .		8
25	Fat-IntraBody Communication at 5.8 GHz: Verification of Dynamic Body Movement Effects Using Computer Simulation and Experiments. IEEE Access, 2021, 9, 48429-48445.	4.2	8
26	Bone mineral density analysis using ultra wideband microwave measurements. , 2015, , .		7
27	Technical Aspects and Validation of a New Biofeedback System for Measuring Lower Limb Loading in the Dynamic Situation. Sensors, 2017, 17, 658.	3.8	7
28	Human fat tissue: A microwave communication channel. , 2017, , .		6
29	A PRELIMINARY RESEARCH ON SKULL HEALING UTILIZING SHORT PULSED RADAR TECHNIQUE ON LAYERED CRANIAL SURGERY PHANTOM MODELS. Progress in Electromagnetics Research C, 2018, 84, 1-9.	0.9	6
30	QRS dispersion detected in ARVC patients and healthy gene carriers using 252â€œleads body surface mapping: an explorative study of a potential diagnostic tool for arrhythmogenic right ventricular cardiomyopathy. PACE - Pacing and Clinical Electrophysiology, 2021, 44, 1355-1364.	1.2	6
31	COMplex Fracture Orthopedic Rehabilitation (COMFORT) - Real-time visual biofeedback on weight bearing versus standard training methods in the treatment of proximal femur fractures in the elderly: study protocol for a multicenter randomized controlled trial. Trials, 2018, 19, 220.	1.6	5
32	Miniaturized CPW-fed bowtie slot antenna for wearable biomedical applications. , 2020, , .		5
33	Preliminary Study: Monitoring of Healing Stages of Bone Fracture utilizing UWB Pulsed Radar Technique. , 2018, , .		4
34	Non-Invasive Transmission Based Tumor Detection Using Anthropomorphic Breast Phantom at 2.45 GHz. , 2020, , .		4
35	A New Focused Hyperthermia Based on Space-Frequency DORT. , 2020, , .		4
36	Clustering of Dielectric and Colour Profiles of an Ex-vivo Burnt Human Skin Sample. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
37	Effects of Blood Vessels on Fat Channel Microwave Communication. , 2018, , .		3
38	A novel Non-Invasive Microwave Technique for monitoring Salinity in Water. , 2019, , .		3
39	Design of constant width branch line directional coupler for the microwave sensing application. , 2020, , .		3
40	Head-compliant microstrip split ring resonator for non-invasive healing monitoring after craniostynosis-based surgery. Healthcare Technology Letters, 2020, 7, 29-34.	3.3	3
41	Preliminary Analysis of Burn Degree Using Non-invasive Microwave Spiral Resonator Sensor for Clinical Applications. Frontiers in Medical Technology, 2022, 4, 859498.	2.5	3
42	End-to-End Transmission of Physiological Data from Implanted Devices to a Cloud-Enabled Aggregator Using Fat Intra-Body Communication in a Live Porcine Model. , 2022, , .		3
43	Monitoring of the skull healing within layered head model based on transmission line theory. , 2017, , .		2
44	New Approach for Clinical Data Analysis of Microwave Sensor Based Bone Healing Monitoring System in Craniostynosis Treated Pediatric Patients. , 2018, , .		2
45	Wireless Power Transfer System Design in Reactive Near-Field for Implantable Devices. , 2020, , .		2
46	Implantable antenna gain enhancement using liquid metal-based reflector. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	2
47	Time Reversal Microwave Imaging of Realistic Numerical Head Phantom for Bone Flap Healing Follow-up. , 2020, , .		2
48	Antenna Based RF Techniques for Intrabody Communication. , 2020, , .		2
49	Open-Ended Transmission Coaxial Probes for Sarcopenia Assessment. Sensors, 2022, 22, 748.	3.8	2
50	Muscle Analyzer System: Exploring Correlation Between Novel Microwave Resonator and Ultrasound-based Tissue Information in the Thigh. , 2022, , .		2
51	Microwave properties of arrowroot and its medical applications. Microwave and Optical Technology Letters, 2009, 51, 1267-1270.	1.4	1
52	Investigation of skull defect using resistive dipole antenna on cranial surgery phantom model. , 2017, , .		1
53	Innovations in Biomedicine: Measuring Physiological Parameters Becomes As Simple As Applying A Plaster on the Body. , 2019, , .		1
54	A Low Profile Button Antenna with Back Radiation Reduced By FSS. , 2020, , .		1

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55	Neural Network Approach for Dielectric Characterization of Tissues in Microwave Frequencies using Coplanar Waveguide Transmission. , 2020, , .		1
56	Low Profile Implantable Antenna for Fat Intra-Body Communication. , 2020, , .		1
57	Enabling Offline Tuning of Fat Channel Communication. , 2021, , .		1
58	Design and simulation of silicon-based antenna at 5.8 GHz ISM band for fat-intrabody communication. , 2021, , .		1
59	Osseointegration analysis of skull implants using microstrip fed split ring resonator antenna. , 2014, , .		0
60	Impact of Blood Vessels on Data Packet Transmission Through the Fat Channel. , 2018, , .		0
61	Theranostic Instrument based on the Combination of Low and High Frequency EM-bio interaction for Bone Defects Analysis and Healing. , 2018, , .		0
62	Monitoring of Healing Progression of Cranial Vault using One-dimensional Pulsed Radar Technique. , 2018, , .		0
63	Reflectometry Enhancement by Saline Injection in Microwave-based Skin Burn Injury Diagnosis. , 2020, , .		0
64	Towards secure backscatter-based in-body sensor networks. , 2020, , .		0
65	Jamming to Support Privacy-preserving Continuous Tumour Relapse Monitoring Using In-body Radio Signals. , 2020, , .		0