

Robin Augustine

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

515
citations

759233

12
h-index

794594

19
g-index

65
all docs

65
docs citations

65
times ranked

311
citing authors

#	ARTICLE	IF	CITATIONS
1	Open-Ended Transmission Coaxial Probes for Sarcopenia Assessment. <i>Sensors</i> , 2022, 22, 748.	3.8	2
2	Preliminary Analysis of Burn Degree Using Non-invasive Microwave Spiral Resonator Sensor for Clinical Applications. <i>Frontiers in Medical Technology</i> , 2022, 4, 859498.	2.5	3
3	Muscle Analyzer System: Exploring Correlation Between Novel Microwave Resonator and Ultrasound-based Tissue Information in the Thigh. , 2022, , .		2
4	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
5	Fat-IntraBody Communication at 5.8 GHz: Verification of Dynamic Body Movement Effects Using Computer Simulation and Experiments. <i>IEEE Access</i> , 2021, 9, 48429-48445.	4.2	8
6	Design of Metamaterial Based Efficient Wireless Power Transfer System Utilizing Antenna Topology for Wearable Devices. <i>Sensors</i> , 2021, 21, 3448.	3.8	14
7	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. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2021, 44, 1355-1364.	1.2	6
8	MAS: Standalone Microwave Resonator to Assess Muscle Quality. <i>Sensors</i> , 2021, 21, 5485.	3.8	12
9	Dual MIMO Antenna System for 5G Mobile Phones, 5.2 GHz WLAN, 5.5 GHz WiMAX and 5.8/6 GHz WiFi Applications. <i>IEEE Access</i> , 2021, 9, 106734-106742.	4.2	20
10	Toward environmentally friendly direct reduced iron production: A novel route of comprehensive utilization of blast furnace dust and electric arc furnace dust. <i>Waste Management</i> , 2021, 135, 389-396.	7.4	16
11	Enabling Offline Tuning of Fat Channel Communication. , 2021, , .		1
12	Design and simulation of silicon-based antenna at 5.8 GHz ISM band for fat-intrabody communication. , 2021, , .		1
13	Wireless Power Transfer System Design in Reactive Near-Field for Implantable Devices. , 2020, , .		2
14	A Low Profile Button Antenna with Back Radiation Reduced By FSS. , 2020, , .		1
15	Reflectometry Enhancement by Saline Injection in Microwave-based Skin Burn Injury Diagnosis. , 2020, , .		0
16	Miniaturized CPW-fed bowtie slot antenna for wearable biomedical applications. , 2020, , .		5
17	Non-Invasive Transmission Based Tumor Detection Using Anthropomorphic Breast Phantom at 2.45 GHz. , 2020, , .		4
18	A New Focused Hyperthermia Based on Space-Frequency DORT. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
19	Clustering of Dielectric and Colour Profiles of an Ex-vivo Burnt Human Skin Sample. , 2020, , .		4
20	Neural Network Approach for Dielectric Characterization of Tissues in Microwave Frequencies using Coplanar Waveguide Transmission. , 2020, , .		1
21	Low Profile Implantable Antenna for Fat Intra-Body Communication. , 2020, , .		1
22	Implantable antenna gain enhancement using liquid metal-based reflector. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	2
23	Design of constant width branch line directional coupler for the microwave sensing application. , 2020, , .		3
24	Head-compliant microstrip split ring resonator for non-invasive healing monitoring after craniostomosis-based surgery. Healthcare Technology Letters, 2020, 7, 29-34.	3.3	3
25	Gain-enhancement technique for wearable patch antenna using grounded metamaterial. IET Microwaves, Antennas and Propagation, 2020, 14, 2045-2052.	1.4	14
26	Time Reversal Microwave Imaging of Realistic Numerical Head Phantom for Bone Flap Healing Follow-up. , 2020, , .		2
27	Antenna Based RF Techniques for Intrabody Communication. , 2020, , .		2
28	Towards secure backscatter-based in-body sensor networks. , 2020, , .		0
29	Jamming to Support Privacy-preserving Continuous Tumour Relapse Monitoring Using In-body Radio Signals. , 2020, , .		0
30	Innovations in Biomedicine: Measuring Physiological Parameters Becomes As Simple As Applying A Plaster on the Body. , 2019, , .		1
31	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
32	A novel Non-Invasive Microwave Technique for monitoring Salinity in Water. , 2019, , .		3
33	Analysis of Thickness Variation in Biological Tissues Using Microwave Sensors for Health Monitoring Applications. IEEE Access, 2019, 7, 156033-156043.	4.2	19
34	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
35	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
36	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

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37	New Approach for Clinical Data Analysis of Microwave Sensor Based Bone Healing Monitoring System in Craniosynostosis Treated Pediatric Patients. , 2018, , .		2
38	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
39	Impact of Blood Vessels on Data Packet Transmission Through the Fat Channel. , 2018, , .		0
40	Theranostic Instrument based on the Combination of Low and High Frequency EM-bio interaction for Bone Defects Analysis and Healing. , 2018, , .		0
41	Characterization of the Fat Channel for Intra-Body Communication at R-Band Frequencies. Sensors, 2018, 18, 2752.	3.8	38
42	Preliminary Study: Monitoring of Healing Stages of Bone Fracture utilizing UWB Pulsed Radar Technique. , 2018, , .		4
43	Effects of Blood Vessels on Fat Channel Microwave Communication. , 2018, , .		3
44	Initial In-Vitro Trial for Intra-Cranial Pressure Monitoring Using Subdermal Proximity-Coupled Split-Ring Resonator. , 2018, , .		8
45	Effect of Thickness Inhomogeneity in Fat Tissue on In-Body Microwave Propagation. , 2018, , .		8
46	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
47	Monitoring of Healing Progression of Cranial Vault using One-dimensional Pulsed Radar Technique. , 2018, , .		0
48	Microwave sensors for new approach in monitoring hip fracture healing. , 2017, , .		11
49	Human fat tissue: A microwave communication channel. , 2017, , .		6
50	Monitoring of the skull healing within layered head model based on transmission line theory. , 2017, , .		2
51	Design of open ended circular waveguide for non-invasive monitoring of cranial healing in pediatric craniosynostosis. , 2017, , .		9
52	Microwave reflectivity analysis of bone mineral density using ultra wide band antenna. Microwave and Optical Technology Letters, 2017, 59, 21-26.	1.4	11
53	Intra-body microwave communication through adipose tissue. Healthcare Technology Letters, 2017, 4, 115-121.	3.3	31
54	Reliability of the fat tissue channel for intra-body microwave communication. , 2017, , .		15

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55	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
56	Investigation of skull defect using resistive dipole antenna on cranial surgery phantom model. , 2017, , .		1
57	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
58	Bone mineral density analysis using ultra wideband microwave measurements. , 2015, , .		7
59	Topology Optimization of Planar Antennas for Wideband Near-Field Coupling. IEEE Transactions on Antennas and Propagation, 2015, 63, 4208-4213.	5.1	56
60	Osseointegration analysis of skull implants using microstrip fed split ring resonator antenna. , 2014, , .		0
61	Microwave phantoms for craniotomy follow-up probe development. , 2014, , .		8
62	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
63	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
64	Microwave properties of arrowroot and its medical applications. Microwave and Optical Technology Letters, 2009, 51, 1267-1270.	1.4	1
65	Biocompatibility study of hydroxyapatiteâ€chitosan composite for medical applications at microwave frequencies. Microwave and Optical Technology Letters, 2008, 50, 2931-2934.	1.4	10