

Hasan T Abbas

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

316
citations

1040056

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h-index

1058476

14
g-index

63
all docs

63
docs citations

63
times ranked

324
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting long-term type 2 diabetes with support vector machine using oral glucose tolerance test. PLoS ONE, 2019, 14, e0219636.	2.5	43
2	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
3	Characterization and Water Content Estimation Method of Living Plant Leaves Using Terahertz Waves. Applied Sciences (Switzerland), 2019, 9, 2781.	2.5	23
4	Making assembly line in supply chain robust and secure using UHF RFID. Scientific Reports, 2021, 11, 18041.	3.3	23
5	Predicting Diabetes in Healthy Population through Machine Learning. , 2019, , .		22
6	An Ultrawideband Microfabricated Gold-Based Antenna Array for Terahertz Communication. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2156-2160.	4.0	18
7	Terahertz Antenna Array Based on a Hybrid Perovskite Structure. IEEE Open Journal of Antennas and Propagation, 2020, 1, 464-471.	3.7	17
8	Two-Dimensional Materials for Future Terahertz Wireless Communications. IEEE Open Journal of Antennas and Propagation, 2022, 3, 217-228.	3.7	13
9	Hardware-Based Hopfield Neuromorphic Computing for Fall Detection. Sensors, 2020, 20, 7226.	3.8	12
10	Security Enhancement in Coherent OFDM Optical Transmission With Chaotic Three-Dimensional Constellation Scrambling. Journal of Lightwave Technology, 2022, 40, 3749-3760.	4.6	12
11	Machine Learning Enabled Food Contamination Detection Using RFID and Internet of Things System. Journal of Sensor and Actuator Networks, 2021, 10, 63.	3.9	10
12	Flexible and Wearable Graphene-based Terahertz Antenna for Body-Centric Applications. , 2019, , .		7
13	High Bandwidth Perovskite based Antenna for High-Resolution Biomedical Imaging at Terahertz. , 2019, , .		7
14	Machine learning enabled identification and real-time prediction of living plants' stress using terahertz waves. Defence Technology, 2022, 18, 1330-1339.	4.2	7
15	A Wearable, Low-cost Hand Tremor Sensor for Detecting Hypoglycemic Events in Diabetic Patients. , 2018, , .		6
16	Terahertz Antenna based on Graphene for Wearable Applications. , 2019, , .		6
17	Spectral Analysis of Hand Tremors Induced During a Fatigue Test. , 2019, , .		4
18	Ultra-wideband Hybrid PICA Terahertz Antenna for High-Resolution Biomedical Imaging. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
19	Non-invasive Wearable System for Hypoglycemia Detection: A Proof of Concept User-Centered Design Process. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 1052-1056.	0.3	3
20	Deep subwavelength imaging via tunable terahertz plasmons. Applied Physics Letters, 2018, 113, 051106.	3.3	3
21	Electromagnetic Properties of Plant Leaves at Terahertz Frequencies for Health Status Monitoring. , 2019, , .		3
22	Features of Physiological Tremor in Diabetic Patients. , 2019, , .		3
23	Monitoring Health Status and Quality Assessment of Leaves Using Terahertz Frequency. , 2019, , .		3
24	A numerical method for the electromagnetic field time domain propagator equations. , 2015, , .		2
25	Optical Nanoantennas. , 2016, , 527-566.		2
26	An integral equation scheme for plasma based thin sheets. , 2017, , .		2
27	Low-profile Flexible Perovskite based Millimetre Wave Antenna. , 2019, , .		2
28	Improving Throughput For Mobile Receivers Using Adaptive Beamforming. , 2021, , .		2
29	Energy Management in an Agile Workspace using AI-driven Forecasting and Anomaly Detection. , 2022, , .		2
30	Electromagnetic Scattering of Two- Dimensional Electronic Systems. IEEE Access, 2019, 7, 106521-106526.	4.2	1
31	Monitoring the Variability of Water Dynamics in Plant Leaves at Cellular Level Using Terahertz Sensing. , 2019, , .		1
32	Assessing the Salt Constituents Characteristics in Aqueous Solutions Using Terahertz Waves. , 2020, , .		1
33	Enhancing Wave Propagation via Contextual Beamforming. , 2021, , .		1
34	Plasmonic and surface wave propagation in boundary layers in the microwave, THz, and optical regimes. , 2014, , .		0
35	Numerical techniques for evaluating electromagnetic field propagators. , 2015, , .		0
36	Plasma based integrated on-chip antenna. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	Plasma based terahertz devices. , 2017, , .		0
38	Electromagnetic Field Scattering from a Thin Sheet. , 2018, , .		0
39	Remote Monitoring of Absorbable Cardiovascular Stents using Millimetre Waves. , 2019, , .		0
40	On the Existence of Terahertz Plasmons in Two-dimensional Semiconductor Heterostructures. , 2019, , .		0
41	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
42	Assessment and Feedback Under Disruptive Circumstances in Trans-National Education. , 2020, , .		0
43	IMU Sensing-Based Hopfield Neuromorphic Computing for Human Activity Recognition. Frontiers in Communications and Networks, 2022, 2, .	3.0	0
44	Data Fusion for Human Activity Recognition Based on RF Sensing and IMU Sensor. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 3-14.	0.3	0
45	Physical Layer Encryption in CO-OFDM Employing Chaotic Mapping and Novel 3D 16-Ary Constellation. , 2021, , .		0
46	Folded Terahertz Antenna based on MoS_2 and Gold for Biomedical Imaging. , 2021, , .		0
47	A Miniaturized Wideband 3 dB Rat-Race Coupler Utilizing Meander Lines. , 2021, , .		0
48	A wideband miniaturized 3 dB hybrid coupler for passive beam switching application. , 2021, , .		0
49	Platform Tolerant UHF RFID Tag Design using Multi-resonant Surface for Supply Chain Visibility. , 2021, , .		0
50	Flexible and Wearable Terahertz Antenna for Future Wireless Communication. , 2022, , .		0