Hasan T Abbas

List of Publications by Year
in descending order

50 papers	316 citations	1040056 9 h-index	1058476 14 g-index
63 all docs	63 docs citations	63 times ranked	324 citing authors

#	Article	IF	Citations
1	Machine learning enabled identification and real-time prediction of living plants' stress using terahertz waves. Defence Technology, 2022, 18, 1330-1339.	4.2	7
2	IMU Sensing–Based Hopfield Neuromorphic Computing for Human Activity Recognition. Frontiers in Communications and Networks, 2022, 2, .	3.0	0
3	Two-Dimensional Materials for Future Terahertz Wireless Communications. IEEE Open Journal of Antennas and Propagation, 2022, 3, 217-228.	3.7	13
4	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
5	Security Enhancement in Coherent OFDM Optical Transmission With Chaotic Three-Dimensional Constellation Scrambling. Journal of Lightwave Technology, 2022, 40, 3749-3760.	4.6	12
6	Flexible and Wearable Terahertz Antenna for Future Wireless Communication. , 2022, , .		0
7	Energy Management in an Agile Workspace using AI-driven Forecasting and Anomaly Detection. , 2022, , .		2
8	Making assembly line in supply chain robust and secure using UHF RFID. Scientific Reports, 2021, 11, 18041.	3.3	23
9	An Ultrawideband Microfabricated Gold-Based Antenna Array for Terahertz Communication. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2156-2160.	4.0	18
10	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
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	Physical Layer Encryption in CO-OFDM Employing Chaotic Mapping and Novel 3D 16-Ary Constellation. , 2021, , .		0
13	Folded Terahertz Antenna based on MoS_{2} and Gold for Biomedical Imaging. , 2021, , .		0
14	A Miniaturized Wideband 3 dB Rat-Race Coupler Utilizing Meander Lines. , 2021, , .		0
15	Improving Throughput For Mobile Receivers Using Adaptive Beamforming. , 2021, , .		2
16	A wideband miniaturized 3 dB hybrid coupler for passive beam switching application. , 2021, , .		0
17	Enhancing Wave Propagation via Contextual Beamforming. , 2021, , .		1
18	Platform Tolerant UHF RFID Tag Design using Multi-resonant Surface for Supply Chain Visibility. , 2021, , .		0

#	Article	IF	Citations
19	Terahertz Antenna Array Based on a Hybrid Perovskite Structure. IEEE Open Journal of Antennas and Propagation, 2020, 1, 464-471.	3.7	17
20	Hardware-Based Hopfield Neuromorphic Computing for Fall Detection. Sensors, 2020, 20, 7226.	3.8	12
21	Ultra-wideband Hybrid PICA Terahertz Antenna for High-Resolution Biomedical Imaging. , 2020, , .		4
22	Assessment and Feedback Under Disruptive Circumstances in Trans-National Education. , 2020, , .		0
23	Assessing the Salt Constituents Characteristics in Aqueous Solutions Using Terahertz Waves. , 2020, , .		1
24	Predicting Diabetes in Healthy Population through Machine Learning. , 2019, , .		22
25	Electromagnetic Scattering of Two- Dimensional Electronic Systems. IEEE Access, 2019, 7, 106521-106526.	4.2	1
26	Characterization and Water Content Estimation Method of Living Plant Leaves Using Terahertz Waves. Applied Sciences (Switzerland), 2019, 9, 2781.	2.5	23
27	Electromagnetic Properties of Plant Leaves at Terahertz Frequencies for Health Status Monitoring. , 2019, , .		3
28	Terahertz Antenna based on Graphene for Wearable Applications. , 2019, , .		6
29	Low-profile Flexible Perovskite based Millimetre Wave Antenna. , 2019, , .		2
30	Spectral Analysis of Hand Tremors Induced During a Fatigue Test. , 2019, , .		4
31	Monitoring the Variability of Water Dynamics in Plant Leaves at Cellular Level Using Terahertz Sensing. , 2019, , .		1
32	Flexible and Wearable Graphene-based Terahertz Antenna for Body-Centric Applications. , 2019, , .		7
33	Features of Physiological Tremor in Diabetic Patients. , 2019, , .		3
34	Monitoring Health Status and Quality Assessment of Leaves Using Terahertz Frequency. , 2019, , .		3
35	Remote Monitoring of Absorbable Cardiovascular Stents using Millimetre Waves. , 2019, , .		0
36	On the Existence of Terahertz Plasmons in Two-dimensional Semiconductor Heterostructures. , 2019, , .		0

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37	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
38	High Bandwidth Perovskite based Antenna for High-Resolution Biomedical Imaging at Terahertz. , 2019, , .		7
39	Predicting long-term type 2 diabetes with support vector machine using oral glucose tolerance test. PLoS ONE, 2019, 14, e0219636.	2.5	43
40	A Wearable, Low-cost Hand Tremor Sensor for Detecting Hypoglycemic Events in Diabetic Patients. , 2018, , .		6
41	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
42	Electromagnetic Field Scattering from a Thin Sheet. , 2018, , .		0
43	Deep subwavelength imaging via tunable terahertz plasmons. Applied Physics Letters, 2018, 113, 051106.	3.3	3
44	An integral equation scheme for plasma based thin sheets. , 2017, , .		2
45	Plasma based terahertz devices. , 2017, , .		0
46	Plasma based integrated on-chip antenna. , 2016, , .		0
47	Optical Nanoantennas. , 2016, , 527-566.		2
48	Numerical techniques for evaluating electromagnetic field propagators. , 2015, , .		0
49	A numerical method for the electromagnetic field time domain propagator equations. , 2015, , .		2
50	Plasmonic and surface wave propagation in boundary layers in the microwave, THz, and optical regimes. , 2014, , .		0