George Shaker

List of Publications by Year
in descending order

56 papers	1,337 citations	687363 13 h-index	580821 25 g-index
56 all docs	56 docs citations	56 times ranked	1278 citing authors

#	Article	IF	Citations
1	Remote Monitoring of Human Vital Signs Using mm-Wave FMCW Radar. IEEE Access, 2019, 7, 54958-54968.	4.2	289
2	Inkjet Printing of Ultrawideband (UWB) Antennas on Paper-Based Substrates. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 111-114.	4.0	164
3	Inkjet Printed, Self Powered, Wireless Sensors for Environmental, Gas, and Authentication-Based Sensing. IEEE Sensors Journal, 2011, 11, 3139-3152.	4.7	128
4	Low-cost portable microwave sensor for non-invasive monitoring of blood glucose level: novel design utilizing a four-cell CSRR hexagonal configuration. Scientific Reports, 2020, 10, 15200.	3.3	117
5	Carbon-Nanotube Loaded Antenna-Based Ammonia Gas Sensor. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2665-2673.	4.6	110
6	Non-Invasive Real-Time Monitoring of Glucose Level Using Novel Microwave Biosensor Based on Triple-Pole CSRR. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 1407-1420.	4.0	70
7	Multiple-Cell Microfluidic Dielectric Resonator for Liquid Sensing Applications. IEEE Sensors Journal, 2021, 21, 6094-6104.	4.7	45
8	Blood Glucose Level Monitoring Using an FMCW Millimeter-Wave Radar Sensor. Remote Sensing, 2020, 12, 385.	4.0	41
9	WGM-Based Sensing of Characterized Glucose- Aqueous Solutions at mm-Waves. IEEE Access, 2020, 8, 38809-38825.	4.2	41
10	Low-cost low-power in-vehicle occupant detection with mm-wave FMCW radar. , 2019, , .		37
11	Non-Invasive Monitoring of Glucose Level Changes Utilizing a mm-Wave Radar System. International Journal of Mobile Human Computer Interaction, 2018, 10, 10-29.	0.4	30
12	Glucose Levels Detection Using mm-Wave Radar. , 2018, 2, 1-4.		25
13	AI-Powered In-Vehicle Passenger Monitoring Using Low-Cost mm-Wave Radar. IEEE Access, 2022, 10, 18998-19012.	4.2	22
14	Exploring Tangible Interactions with Radar Sensing. , 2018, 2, 1-25.		21
15	Wireless Biometric Individual Identification Utilizing Millimeter Waves. , 2017, 1, 1-4.		18
16	Portable Radar-Driven Microwave Sensor for Intermittent Glucose Levels Monitoring. , 2020, 4, 1-4.		17
17	Cellular Wireless Energy Harvesting for Smart Contact Lens Applications [Education Corner]. IEEE Antennas and Propagation Magazine, 2018, 60, 108-124.	1.4	14
18	Improving passenger safety in cars using novel radar signal processing. Engineering Reports, 2021, 3, e12413.	1.7	13

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19	Hallway Gait Monitoring Using Novel Radar Signal Processing and Unsupervised Learning. IEEE Sensors Journal, 2022, 22, 15133-15145.	4.7	13
20	A synthesis technique for reducing mutual coupling between closely separated patch antennas. , 2008, , .		11
21	PCA-Assisted Blood Glucose Monitoring Using Metamaterial-Inspired Sensor. , 2021, 5, 1-4.		11
22	A Broadband Wrapped Bowtie Antenna for UWB Pulsed Radar Applications. IEEE Transactions on Antennas and Propagation, 2020, 68, 7803-7812.	5.1	10
23	Development of a compact monocycle pulse generator for <scp>UWB</scp> impulse radar applications. Microwave and Optical Technology Letters, 2020, 62, 3119-3123.	1.4	8
24	Robust Wiener filterâ€based time gating method for detection of shallowly buried objects. IET Signal Processing, 2021, 15, 28-39.	1.5	8
25	Investigation on the effects of resistive loading on wrapped bow-tie antennas. International Journal of Microwave and Wireless Technologies, 2019, 11, 390-400.	1.9	7
26	Passenger Monitoring Using AI-Powered Radar. , 2021, , .		7
27	MODERN ANTENNA DESIGN USING MODE ANALYSIS TECHNIQUES. Progress in Electromagnetics Research B, 2015, 62, 153-165.	1.0	6
28	Non-Reciprocal Whispering-Gallery-Mode Resonator for Sensitive Blood Glucose Monitoring. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	6
29	Remote Health Monitoring System for Bedbound Patients. , 2020, , .		5
30	Low-cost Gas Sensors utilizing mm-Wave Radars. , 2017, , .		4
31	Preliminary Study: Monitoring of Healing Stages of Bone Fracture utilizing UWB Pulsed Radar Technique. , 2018, , .		4
32	Whispering-Gallery-Mode Microwave Sensing Platform for Oil Quality Control Applications. IEEE Internet of Things Journal, 2022, 9, 4065-4075.	8.7	4
33	Wearable CSRR-based Sensor for Monitoring Glycemic Levels for Diabetics. , 2020, , .		4
34	Microwave-based Nondestructive Sensing Approach for Blood Type Identification. , 2020, , .		4
35	On the fundamental Q-bandwidth relations for antennas. , 2008, , .		3
36	Interference rejection with Time Modulated Array for GPS application. , 2018, , .		3

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37	Wrapped ultraâ€wide band radar sensor based on resistively loaded bowâ€tie antenna for near zone sensing applications. Microwave and Optical Technology Letters, 2019, 61, 1070-1078.	1.4	3
38	UWB Radar Sensor Development using Drone Arms for Sensing Applicaions. , 2018, , .		2
39	Multiple-Pole CSRR-based Microwave Sensor for Glucose Levels Detection. , 2020, , .		2
40	Imaging of Human Walking Behind the Obstacle Utilizing Pulsed Radar Technique in the C-Band for Military Surveillance Applications. Journal of Electrical Engineering and Technology, 2020, 15, 1431-1439.	2.0	2
41	Transparent mobile service terminal: an overview. International Journal of Cloud Computing, 2012, 1, 302.	0.3	1
42	Antenna design methodology for ear-to-ear/ear-to-remote communications. , 2017, , .		1
43	Air Quality Monitoring Using UWB Radar. , 2018, , .		1
44	Glucose Concentration Estimation using Electromagnetic Waves. , 2018, , .		1
45	Radar Antenna Gain Improvement Using 3D-Printed Dielectric Lens and Metamaterial-Inspired Superstrates. , 2021, , .		1
46	Microwave Sensor of Integrated CSRR Cells for Typing Detection in Synthetic Blood. , 2020, , .		1
47	Compact Ferromagnetic WGM Resonator for Sensing Applications at Sub-Centimeter Wavelengths. , 2021, , .		1
48	An Overview of Vital Signs Monitoring Based on RADAR Technologies. Lecture Notes in Electrical Engineering, 2022, , 113-124.	0.4	1
49	Filter integrated antennas: Concept and proposed design methodology. , 2009, , .		0
50	Sensing the Defect Response of Cranial Vault using Resistively Loaded Dipole Antenna. , 2018, , .		0
51	Flexible Antenna on Drone Arms for Near-field Sensing Applications. , 2018, , .		0
52	Wrapped Resistively Loaded Bow-tie Antenna for Use in UAV Applications. , 2018, , .		0
53	Wideband Circular Polarized Antenna for Satellite Based Navigation Systems. , 2018, , .		0
54	Monitoring of Healing Progression of Cranial Vault using One-dimensional Pulsed Radar Technique. , 2018, , .		0

#	Article	IF	Citations
55	Erratum to â€œA Broadband Wrapped Bowtie Antenna for UWB Pulsed Radar Applicationsâ€• IEEE Transactions on Antennas and Propagation, 2021, 69, 8033-8033.	5.1	0
56	Performance Evaluation on Various Resistively Loaded Wrapped Bowtie Antenna. , 2020, , .		0