

Latifah Munirah Kamarudin

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

1,113
citations

471509

17
h-index

552781

26
g-index

103
all docs

103
docs citations

103
times ranked

1158
citing authors

#	ARTICLE	IF	CITATIONS
1	A Biomimetic Sensor for the Classification of Honeys of Different Floral Origin and the Detection of Adulteration. <i>Sensors</i> , 2011, 11, 7799-7822.	3.8	74
2	Wireless sensor network coverage measurement and planning in mixed crop farming. <i>Computers and Electronics in Agriculture</i> , 2014, 105, 83-94.	7.7	65
3	Improved Maturity and Ripeness Classifications of <i>Magnifera Indica</i> cv. Harumanis Mangoes through Sensor Fusion of an Electronic Nose and Acoustic Sensor. <i>Sensors</i> , 2012, 12, 6023-6048.	3.8	62
4	A study on volatile organic compounds emitted by in-vitro lung cancer cultured cells using gas sensor array and SPME-GCMS. <i>BMC Cancer</i> , 2018, 18, 362.	2.6	55
5	VEGETATION ATTENUATION MEASUREMENTS AND MODELING IN PLANTATIONS FOR WIRELESS SENSOR NETWORK PLANNING. <i>Progress in Electromagnetics Research B</i> , 2012, 36, 283-301.	1.0	45
6	The study of human movement effect on Signal Strength for indoor WSN deployment. , 2013, , .		37
7	Interference issues and mitigation method in WSN 2.4GHz ISM band: A survey. , 2014, , .		37
8	Performance Analysis of the Microsoft Kinect Sensor for 2D Simultaneous Localization and Mapping (SLAM) Techniques. <i>Sensors</i> , 2014, 14, 23365-23387.	3.8	34
9	In-vitro diagnosis of single and poly microbial species targeted for diabetic foot infection using e-nose technology. <i>BMC Bioinformatics</i> , 2015, 16, 158.	2.6	32
10	A hybrid approach of knowledge-driven and data-driven reasoning for activity recognition in smart homes. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 36, 4177-4188.	1.4	32
11	Device free localization technology for human detection and counting with RF sensor networks: A review. <i>Journal of Network and Computer Applications</i> , 2017, 97, 157-174.	9.1	31
12	Improved Classification of <i>Orthosiphon stamineus</i> by Data Fusion of Electronic Nose and Tongue Sensors. <i>Sensors</i> , 2010, 10, 8782-8796.	3.8	29
13	Cloud-based remote environmental monitoring system with distributed WSN weather stations. , 2015, , .		28
14	Integrating SLAM and gas distribution mapping (SLAM-GDM) for real-time gas source localization. <i>Advanced Robotics</i> , 2018, 32, 903-917.	1.8	24
15	RF-Based Moisture Content Determination in Rice Using Machine Learning Techniques. <i>Sensors</i> , 2021, 21, 1875.	3.8	24
16	Implementation of Behaviour Based Robot with Sense of Smell and Sight. <i>Procedia Computer Science</i> , 2015, 76, 119-125.	2.0	21
17	SIGNAL PROPAGATION IN AQUACULTURE ENVIRONMENT FOR WIRELESS SENSOR NETWORK APPLICATIONS. <i>Progress in Electromagnetics Research</i> , 2012, 131, 477-494.	4.4	20
18	Hand-Held Electronic Nose Sensor Selection System for Basal Stamp Rot (BSR) Disease Detection. , 2012, , .		19

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19	SIGNAL PROPAGATION ANALYSIS FOR LOW DATA RATE WIRELESS SENSOR NETWORK APPLICATIONS IN SPORT GROUNDS AND ON ROADS. <i>Progress in Electromagnetics Research</i> , 2012, 125, 1-19.	4.4	19
20	Real-Time In-Vehicle Air Quality Monitoring System Using Machine Learning Prediction Algorithm. <i>Sensors</i> , 2021, 21, 4956.	3.8	19
21	Method to convert Kinect's 3D depth data to a 2D map for indoor SLAM. , 2013, , .		17
22	An adaptive people counting system with dynamic features selection and occlusion handling. <i>Journal of Visual Communication and Image Representation</i> , 2016, 39, 218-225.	2.8	17
23	Comparative Performance Analysis of Wireless RSSI in Wireless Sensor Networks Motes in Tropical Mixed-crop Precision Farm. , 2012, , .		16
24	Analysis of RSSI-based DFL for human detection in indoor environment using IRIS mote. , 2016, , .		16
25	Effect of Environmental Temperature and Humidity on Different Metal Oxide Gas Sensors at Various Gas Concentration Levels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 864, 012152.	0.6	16
26	Internet of things: Sensor to sensor communication. , 2015, , .		15
27	RSSI-Based for Device-Free Localization Using Deep Learning Technique. <i>Smart Cities</i> , 2020, 3, 444-455.	9.4	14
28	Wireless Sensor Networks Mapping and Deployment in Tropical Precision Farming. , 2011, , .		12
29	Correction Model for Metal Oxide Sensor Drift Caused by Ambient Temperature and Humidity. <i>Sensors</i> , 2022, 22, 3301.	3.8	12
30	Review and Modeling of Vegetation Propagation Model for Wireless Sensor Networks Using Omnet++. , 2010, , .		11
31	Design and Development of Multi-Transceiver Lorafi Board consisting LoRa and ESP8266-Wifi Communication Module. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 318, 012051.	0.6	11
32	Modelling indoor propagation for WSN deployment in smart building. , 2014, , .		10
33	Non-invasive blood glucose measurement performance analysis through UWB imaging. , 2016, , .		10
34	The Prospect of Internet of Things and Big Data Analytics in Transportation System. <i>Journal of Physics: Conference Series</i> , 2018, 1018, 012013.	0.4	10
35	Modeling and simulation of near-earth wireless sensor networks for agriculture based application using OMNeT. , 2010, , .		9
36	Cross-sensitivity of metal oxide gas sensor to ambient temperature and humidity: Effects on gas distribution mapping. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	9

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37	Rapid Identification Method of Aerobic Bacteria in Diabetic Foot Ulcers Using Electronic Nose. <i>Advanced Science Letters</i> , 2014, 20, 37-41.	0.2	9
38	Water quality classification and monitoring using e-nose and e-tongue in aquaculture farming. , 2014, , .		8
39	Quartz crystal microbalance for bacteria application review. , 2014, , .		8
40	Mobile robot localization system using multiple ceiling mounted cameras. , 2015, , .		8
41	Flexible and Autonomous Integrated System for Characterizing Metal Oxide Gas Sensor Response in Dynamic Environment. <i>Instrumentation Science and Technology</i> , 2015, 43, 74-88.	1.8	8
42	Non-Contact Breathing Monitoring Using Sleep Breathing Detection Algorithm (SBDA) Based on UWB Radar Sensors. <i>Sensors</i> , 2022, 22, 5249.	3.8	8
43	Modeling and Simulation of WSNs for Agriculture Applications Using Dynamic Transmit Power Control Algorithm. , 2012, , .		7
44	A real-time greenhouse monitoring system for mango with Wireless Sensor Network (WSN). , 2014, , .		7
45	Development of a Scalable Testbed for Mobile Olfaction Verification. <i>Sensors</i> , 2015, 15, 30894-30912.	3.8	6
46	Enabling IoT: Integration of wireless sensor network for healthcare application using Waspote. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	6
47	Diagnosis of bacteria for diabetic foot infection using electronic nose technology. , 2013, , .		5
48	Bacteria Classification Using Electronic Nose for Diabetic Wound Monitoring. <i>Applied Mechanics and Materials</i> , 0, 339, 167-172.	0.2	5
49	A preliminary study on in-vitro lung cancer detection using E-nose technology. , 2014, , .		5
50	A Study on VOCs Released by Lung Cancer Cell Line Using GCMS-SPME. <i>Procedia Chemistry</i> , 2016, 20, 1-7.	0.7	5
51	Embedded Device Free Passive (EDfP) System: Effect of WiFi Protocols. , 2018, , .		5
52	Device-Free Localization for Human Activity Monitoring. , 2019, , .		5
53	Comparison of various pattern recognition techniques based on e-nose for identifying bacterial species in diabetic wound infections. , 2014, , .		5
54	Bio-inspired taste assessment of pure and adulterated honey using multi-sensing technique. , 2014, , .		4

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55	Visualisation of acoustic entropy index for rainforest health monitoring system. , 2015, , .		4
56	Internet of Things: Solar power under forest canopy. , 2016, , .		4
57	2.4GHz RF based Active RFID Localization in Industrial Environment. , 2019, , .		4
58	IV-AQMS: HTTP and MQTT Protocol from a Realistic Testbed. , 2019, , .		4
59	Sensor Fusion of Electronic Nose and Electronic Tongue for Classification of <I>Orthosiphon stamineus</I>. Sensor Letters, 2011, 9, 837-840.	0.4	4
60	Agent-based Decision Support System for Harumanis Mango Flower Initiation. , 2011, , .		3
61	Data Mining on Climatic Factors for Harumanis Mango Yield Prediction. , 2012, , .		3
62	Electronic flavour assessment techniques for Orthosiphon stamineus tea from different manufacturers. , 2013, , .		3
63	Aroma and optical absorption spectroscopy for quality assessment of vegetable cooking oils. , 2014, , .		3
64	Distributed cognitive radio detection using Wasp mote sensor for Windows based PC/Laptop. , 2014, , .		3
65	Embedded Device Free Passive (EDfP) System: Sensitivity of ESP32. , 2018, , .		3
66	Gas Source Localization via Behaviour Based Mobile Robot and Weighted Arithmetic Mean. IOP Conference Series: Materials Science and Engineering, 2018, 318, 012049.	0.6	3
67	Real-time track cycling performance prediction using ANFIS system. International Journal of Performance Analysis in Sport, 2018, 18, 806-822.	1.1	3
68	Influence of Moisture Content in Rice on Radio Signal Strength Indicator Readings at 2.4GHz. , 2019, , .		3
69	Simulation of Radio Tomographic Imaging for Measurement Rice Moisture Content. , 2020, , .		3
70	Improved mobile robot based gas distribution mapping through propagated distance transform for structured indoor environment. Advanced Robotics, 2020, 34, 637-647.	1.8	3
71	Outdoor Propagation Analysis for LR-WPAN IEEE 802.15.4. , 2010, , .		2
72	Electronic nose as the rapid technique for aroma assesment of vegetable oils. , 2013, , .		2

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73	Cancer detection using an electronic nose: A preliminary study on detection and discrimination of cancerous cells. , 2014, , .		2
74	Plant bio-absorber for ammonia gas absorption using I2C interface data acquisition system. , 2014, , .		2
75	STINGLESS BEE COLONY HEALTH SENSING THROUGH INTEGRATED WIRELESS SYSTEM. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.4	2
76	Investigation of Wireless Sensor Network Energy Detection under varying WiFi multimedia streaming in real-home environment. , 2016, , .		2
77	Compact antenna design for outdoor RF energy harvesting in wireless sensor networks. , 2016, , .		2
78	Gas dispersion with induced airflow in mobile olfaction testbed. AIP Conference Proceedings, 2017, , .	0.4	2
79	Multi-Target Detection and Tracking (MTDT) Algorithm Based on Probabilistic Model for Smart Cities. Journal of Physics: Conference Series, 2021, 1755, 012043.	0.4	2
80	A New Method of Rice Moisture Content Determination Using Voxel Weighting-Based from Radio Tomography Images. Sensors, 2021, 21, 3686.	3.8	2
81	Multi channel ultrasonic sensing system for wall features extraction. , 2014, , .		1
82	FEASIBILITY ANALYSIS OF 2D-SLAM USING COMBINATION OF KINECT AND LASER SCANNER. Jurnal Teknologi (Sciences and Engineering), 2015, 76, .	0.4	1
83	Energy Efficient Partition-lightpath Scheme for IP over WDM Core Networks. Procedia Computer Science, 2015, 52, 515-522.	2.0	1
84	Size efficiency for sensor node with embedded processing unit. , 2016, , .		1
85	Adaptive threshold determination for efficient channel sensing in cognitive radio network using mobile sensors. AIP Conference Proceedings, 2017, , .	0.4	1
86	Cognitive radio based optimal channel sensing and resources allocation. AIP Conference Proceedings, 2017, , .	0.4	1
87	Early Wheel Train Damage Detection Using Wireless Sensor Network Antenna. IOP Conference Series: Materials Science and Engineering, 2018, 318, 012034.	0.6	1
88	Integration of Fuzzy C-Means and Artificial Neural Network for Short-Term Localized Rainfall Forecast in Tropical Climate. Lecture Notes in Networks and Systems, 2018, , 499-516.	0.7	1
89	Analysis on filtering performance of solar powered water treatment device (SWAD) prototype. AIP Conference Proceedings, 2019, , .	0.4	1
90	<i>Magnifera Indica</i> cv. Harumanis Classification Using E-Nose. Sensor Letters, 2011, 9, 359-363.	0.4	1

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91	Inline 3D Volumetric Measurement of Moisture Content in Rice Using Regression-Based ML of RF Tomographic Imaging. <i>Sensors</i> , 2022, 22, 405.	3.8	1
92	Sound analyser for bioacoustic monitoring system using LabVIEW. , 2014, , .		0
93	Empirical study on suitable scan duration for energy detection in clear channel assessment sensing method for IEEE802.15.4 transceiver. , 2015, , .		0
94	Towards harnessing Wireless Sensor Networks for supporting the development process in Iraq. , 2016, , .		0
95	Connecting WSN to Google fusion tables, a REST database for data storage. , 2016, , .		0
96	Assessment on ground-level nitrogen dioxide (NO ₂) and ammonia (NH ₃) at secondary forest of Mata Ayer and Kangar, Perlis. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
97	Feature extraction techniques using multivariate analysis for identification of lung cancer volatile organic compounds. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
98	Analysis of Signal Propagation in an Experiment Room with Epoxy Covered Floor for Wireless Sensor Network Applications. <i>MATEC Web of Conferences</i> , 2017, 97, 01041.	0.2	0
99	THE STUDY OF VEGETATION EFFECT ON WIRELESS STREAMING VIDEO FOR AGRICULTURAL MONITORING. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015, 76, .	0.4	0
100	A PRELIMINARY STUDY ON DETECTION OF LUNG CANCER CELLS BASED ON VOLATILE ORGANIC COMPOUNDS SENSING USING ELECTRONIC NOSE. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015, 77, .	0.4	0
101	Relative Localization Method of Wet Spot of Grain using Array of Passive RFID Tags. <i>Journal of Physics: Conference Series</i> , 2021, 2107, 012004.	0.4	0
102	Rice grain moisture sensing based on UHF RFID tag. <i>AIP Conference Proceedings</i> , 2022, , .	0.4	0