

# 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	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
2	Correction Model for Metal Oxide Sensor Drift Caused by Ambient Temperature and Humidity. <i>Sensors</i> , 2022, 22, 3301.	3.8	12
3	Rice grain moisture sensing based on UHF RFID tag. <i>AIP Conference Proceedings</i> , 2022, , .	0.4	0
4	Non-Contact Breathing Monitoring Using Sleep Breathing Detection Algorithm (SBDA) Based on UWB Radar Sensors. <i>Sensors</i> , 2022, 22, 5249.	3.8	8
5	Multi-Target Detection and Tracking (MTDT) Algorithm Based on Probabilistic Model for Smart Cities. <i>Journal of Physics: Conference Series</i> , 2021, 1755, 012043.	0.4	2
6	RF-Based Moisture Content Determination in Rice Using Machine Learning Techniques. <i>Sensors</i> , 2021, 21, 1875.	3.8	24
7	A New Method of Rice Moisture Content Determination Using Voxel Weighting-Based from Radio Tomography Images. <i>Sensors</i> , 2021, 21, 3686.	3.8	2
8	Real-Time In-Vehicle Air Quality Monitoring System Using Machine Learning Prediction Algorithm. <i>Sensors</i> , 2021, 21, 4956.	3.8	19
9	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
10	Simulation of Radio Tomographic Imaging for Measurement Rice Moisture Content. , 2020, , .		3
11	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
12	RSSI-Based for Device-Free Localization Using Deep Learning Technique. <i>Smart Cities</i> , 2020, 3, 444-455.	9.4	14
13	Improved mobile robot based gas distribution mapping through propagated distance transform for structured indoor environment. <i>Advanced Robotics</i> , 2020, 34, 637-647.	1.8	3
14	Analysis on filtering performance of solar powered water treatment device (SWAD) prototype. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
15	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
16	Device-Free Localization for Human Activity Monitoring. , 2019, , .		5
17	2.4GHz RF based Active RFID Localization in Industrial Environment. , 2019, , .		4
18	IV-AQMS: HTTP and MQTT Protocol from a Realistic Testbed. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
19	Influence of Moisture Content in Rice on Radio Signal Strength Indicator Readings at 2.4GHz. , 2019, , .		3
20	Early Wheel Train Damage Detection Using Wireless Sensor Network Antenna. IOP Conference Series: Materials Science and Engineering, 2018, 318, 012034.	0.6	1
21	Design and Development of Multi-Transceiver Lorafi Board consisting LoRa and ESP8266-Wifi Communication Module. IOP Conference Series: Materials Science and Engineering, 2018, 318, 012051.	0.6	11
22	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
23	Embedded Device Free Passive (EDfP) System: Sensitivity of ESP32. , 2018, , .		3
24	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
25	Embedded Device Free Passive (EDfP) System: Effect of WiFi Protocols. , 2018, , .		5
26	The Prospect of Internet of Things and Big Data Analytics in Transportation System. Journal of Physics: Conference Series, 2018, 1018, 012013.	0.4	10
27	Integrating SLAM and gas distribution mapping (SLAM-GDM) for real-time gas source localization. Advanced Robotics, 2018, 32, 903-917.	1.8	24
28	Real-time track cycling performance prediction using ANFIS system. International Journal of Performance Analysis in Sport, 2018, 18, 806-822.	1.1	3
29	A study on volatile organic compounds emitted by in-vitro lung cancer cultured cells using gas sensor array and SPME-GCMS. BMC Cancer, 2018, 18, 362.	2.6	55
30	Cross-sensitivity of metal oxide gas sensor to ambient temperature and humidity: Effects on gas distribution mapping. AIP Conference Proceedings, 2017, , .	0.4	9
31	Assessment on ground-level nitrogen dioxide (NO <sub>2</sub> ) and ammonia (NH <sub>3</sub> ) at secondary forest of Mata Ayer and Kangar, Perlis. AIP Conference Proceedings, 2017, , .	0.4	0
32	Adaptive threshold determination for efficient channel sensing in cognitive radio network using mobile sensors. AIP Conference Proceedings, 2017, , .	0.4	1
33	Enabling IoT: Integration of wireless sensor network for healthcare application using Wasp mote. AIP Conference Proceedings, 2017, , .	0.4	6
34	Cognitive radio based optimal channel sensing and resources allocation. AIP Conference Proceedings, 2017, , .	0.4	1
35	Gas dispersion with induced airflow in mobile olfaction testbed. AIP Conference Proceedings, 2017, , .	0.4	2
36	Device free localization technology for human detection and counting with RF sensor networks: A review. Journal of Network and Computer Applications, 2017, 97, 157-174.	9.1	31

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37	Feature extraction techniques using multivariate analysis for identification of lung cancer volatile organic compounds. AIP Conference Proceedings, 2017, , .	0.4	0
38	Analysis of Signal Propagation in an Experiment Room with Epoxy Covered Floor for Wireless Sensor Network Applications. MATEC Web of Conferences, 2017, 97, 01041.	0.2	0
39	Investigation of Wireless Sensor Network Energy Detection under varying WiFi multimedia streaming in real-home environment. , 2016, , .		2
40	Towards harnessing Wireless Sensor Networks for supporting the development process in Iraq. , 2016, , .		0
41	Compact antenna design for outdoor RF energy harvesting in wireless sensor networks. , 2016, , .		2
42	Analysis of RSSI-based DFL for human detection in indoor environment using IRIS mote. , 2016, , .		16
43	Size efficiency for sensor node with embedded processing unit. , 2016, , .		1
44	Connecting WSN to Google fusion tables, a REST database for data storage. , 2016, , .		0
45	Non-invasive blood glucose measurement performance analysis through UWB imaging. , 2016, , .		10
46	Internet of Things: Solar power under forest canopy. , 2016, , .		4
47	A Study on VOCs Released by Lung Cancer Cell Line Using GCMS-SPME. Procedia Chemistry, 2016, 20, 1-7.	0.7	5
48	An adaptive people counting system with dynamic features selection and occlusion handling. Journal of Visual Communication and Image Representation, 2016, 39, 218-225.	2.8	17
49	Empirical study on suitable scan duration for energy detection in clear channel assessment sensing method for IEEE802.15.4 transceiver. , 2015, , .		0
50	Development of a Scalable Testbed for Mobile Olfaction Verification. Sensors, 2015, 15, 30894-30912.	3.8	6
51	STINGLESS BEE COLONY HEALTH SENSING THROUGH INTEGRATED WIRELESS SYSTEM. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.4	2
52	FEASIBILITY ANALYSIS OF 2D-SLAM USING COMBINATION OF KINECT AND LASER SCANNER. Jurnal Teknologi (Sciences and Engineering), 2015, 76, .	0.4	1
53	In-vitro diagnosis of single and poly microbial species targeted for diabetic foot infection using e-nose technology. BMC Bioinformatics, 2015, 16, 158.	2.6	32
54	Visualisation of acoustic entropy index for rainforest health monitoring system. , 2015, , .		4

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55	Internet of things: Sensor to sensor communication. , 2015, , .		15
56	Cloud-based remote environmental monitoring system with distributed WSN weather stations. , 2015, , .		28
57	Mobile robot localization system using multiple ceiling mounted cameras. , 2015, , .		8
58	Implementation of Behaviour Based Robot with Sense of Smell and Sight. Procedia Computer Science, 2015, 76, 119-125.	2.0	21
59	Energy Efficient Partition-lightpath Scheme for IP over WDM Core Networks. Procedia Computer Science, 2015, 52, 515-522.	2.0	1
60	Flexible and Autonomous Integrated System for Characterizing Metal Oxide Gas Sensor Response in Dynamic Environment. Instrumentation Science and Technology, 2015, 43, 74-88.	1.8	8
61	THE STUDY OF VEGETATION EFFECT ON WIRELESS STREAMING VIDEO FOR AGRICULTURAL MONITORING. Jurnal Teknologi (Sciences and Engineering), 2015, 76, .	0.4	0
62	A PRELIMINARY STUDY ON DETECTION OF LUNG CANCER CELLS BASED ON VOLATILE ORGANIC COMPOUNDS SENSING USING ELECTRONIC NOSE. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.4	0
63	Bio-inspired taste assessment of pure and adulterated honey using multi-sensing technique. , 2014, , .		4
64	Water quality classification and monitoring using e-nose and e-tongue in aquaculture farming. , 2014, , .		8
65	Quartz crystal microbalance for bacteria application review. , 2014, , .		8
66	Interference issues and mitigation method in WSN 2.4GHz ISM band: A survey. , 2014, , .		37
67	Performance Analysis of the Microsoft Kinect Sensor for 2D Simultaneous Localization and Mapping (SLAM) Techniques. Sensors, 2014, 14, 23365-23387.	3.8	34
68	Cancer detection using an electronic nose: A preliminary study on detection and discrimination of cancerous cells. , 2014, , .		2
69	A preliminary study on in-vitro lung cancer detection using E-nose technology. , 2014, , .		5
70	Aroma and optical absorption spectroscopy for quality assessment of vegetable cooking oils. , 2014, , .		3
71	Multi channel ultrasonic sensing system for wall features extraction. , 2014, , .		1
72	Modelling indoor propagation for WSN deployment in smart building. , 2014, , .		10

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73	Plant bio-absorber for ammonia gas absorption using I2C interface data acquisition system. , 2014, , .		2
74	A real-time greenhouse monitoring system for mango with Wireless Sensor Network (WSN). , 2014, , .		7
75	Sound analyser for bioacoustic monitoring system using LabVIEW. , 2014, , .		0
76	Wireless sensor network coverage measurement and planning in mixed crop farming. Computers and Electronics in Agriculture, 2014, 105, 83-94.	7.7	65
77	Distributed cognitive radio detection using Wasp mote sensor for Windows based PC/Laptop. , 2014, , .		3
78	Rapid Identification Method of Aerobic Bacteria in Diabetic Foot Ulcers Using Electronic Nose. Advanced Science Letters, 2014, 20, 37-41.	0.2	9
79	Comparison of various pattern recognition techniques based on e-nose for identifying bacterial species in diabetic wound infections. , 2014, , .		5
80	Electronic flavour assessment techniques for Orthosiphon stamineus tea from different manufacturers. , 2013, , .		3
81	Diagnosis of bacteria for diabetic foot infection using electronic nose technology. , 2013, , .		5
82	Electronic nose as the rapid technique for aroma assesment of vegetable oils. , 2013, , .		2
83	The study of human movement effect on Signal Strength for indoor WSN deployment. , 2013, , .		37
84	Method to convert Kinect's 3D depth data to a 2D map for indoor SLAM. , 2013, , .		17
85	Improved Maturity and Ripeness Classifications of Magnifera Indica cv. Harumanis Mangoes through Sensor Fusion of an Electronic Nose and Acoustic Sensor. Sensors, 2012, 12, 6023-6048.	3.8	62
86	Data Mining on Climatic Factors for Harumanis Mango Yield Prediction. , 2012, , .		3
87	Modeling and Simulation of WSNs for Agriculture Applications Using Dynamic Transmit Power Control Algorithm. , 2012, , .		7
88	Comparative Performance Analysis of Wireless RSSI in Wireless Sensor Networks Motes in Tropical Mixed-crop Precision Farm. , 2012, , .		16
89	Hand-Held Electronic Nose Sensor Selection System for Basal Stamp Rot (BSR) Disease Detection. , 2012, , .		19
90	VEGETATION ATTENUATION MEASUREMENTS AND MODELING IN PLANTATIONS FOR WIRELESS SENSOR NETWORK PLANNING. Progress in Electromagnetics Research B, 2012, 36, 283-301.	1.0	45

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91	SIGNAL PROPAGATION IN AQUACULTURE ENVIRONMENT FOR WIRELESS SENSOR NETWORK APPLICATIONS. Progress in Electromagnetics Research, 2012, 131, 477-494.	4.4	20
92	SIGNAL PROPAGATION ANALYSIS FOR LOW DATA RATE WIRELESS SENSOR NETWORK APPLICATIONS IN SPORT GROUNDS AND ON ROADS. Progress in Electromagnetics Research, 2012, 125, 1-19.	4.4	19
93	Agent-based Decision Support System for Harumanis Mango Flower Initiation. , 2011, , .		3
94	Wireless Sensor Networks Mapping and Deployment in Tropical Precision Farming. , 2011, , .		12
95	A Biomimetic Sensor for the Classification of Honeys of Different Floral Origin and the Detection of Adulteration. Sensors, 2011, 11, 7799-7822.	3.8	74
96	<i>Magnifera Indica</i> cv. Harumanis Classification Using E-Nose. Sensor Letters, 2011, 9, 359-363.	0.4	1
97	Sensor Fusion of Electronic Nose and Electronic Tongue for Classification of &lt;i>Orthosiphon stamineus</i>. Sensor Letters, 2011, 9, 837-840.	0.4	4
98	Outdoor Propagation Analysis for LR-WPAN IEEE 802.15.4. , 2010, , .		2
99	Improved Classification of <i>Orthosiphon stamineus</i> by Data Fusion of Electronic Nose and Tongue Sensors. Sensors, 2010, 10, 8782-8796.	3.8	29
100	Modeling and simulation of near-earth wireless sensor networks for agriculture based application using OMNeT. , 2010, , .		9
101	Review and Modeling of Vegetation Propagation Model for Wireless Sensor Networks Using Omnet++. , 2010, , .		11
102	Bacteria Classification Using Electronic Nose for Diabetic Wound Monitoring. Applied Mechanics and Materials, 0, 339, 167-172.	0.2	5