

Kelum A A Gamage

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

964
citations

13
h-index

29
g-index

86
ext. papers

1,282
ext. citations

2.6
avg, IF

5.07
L-index

#	Paper	IF	Citations
75	Happy Sustainability: A Future Quest for More Sustainable Universities. <i>Social Sciences</i> , 2022 , 11, 24	1.8	3
74	Rethinking Assessment: The Future of Examinations in Higher Education. <i>Sustainability</i> , 2022 , 14, 3552	3.6	1
73	Embedding Sustainability in Learning and Teaching: Lessons Learned and Moving Forward Approaches in STEM Higher Education Programmes. <i>Education Sciences</i> , 2022 , 12, 225	2.2	0
72	A Stacked Machine and Deep Learning-based Approach for Analysing Electricity Theft in Smart Grids. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	5
71	Synergistic enhancement of CdSe/ZnS quantum dot and liquid scintillator for radioluminescent nuclear batteries. <i>International Journal of Energy Research</i> , 2021 , 45, 12195-12202	4.5	3
70	Characterisation and suitability of a CdTe detector for strontium 90 assay in groundwater. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021 , 997, 165155	1.2	
69	Big Data Analytics for Electricity Theft Detection in Smart Grids 2021 ,		3
68	Undergraduate Students Device Preferences in the Transition to Online Learning. <i>Social Sciences</i> , 2021 , 10, 288	1.8	0
67	The Role of Personal Values in Learning Approaches and Student Achievements. <i>Behavioral Sciences (Basel, Switzerland)</i> , 2021 , 11,	2.3	2
66	The Simulated Characterization and Suitability of Semiconductor Detectors for Strontium 90 Assay in Groundwater. <i>Sensors</i> , 2021 , 21,	3.8	1
65	Learning Remotely during a Pandemic: Are Students in a Developing Country Fully Equipped with Tools for Swift Changes?. <i>Sustainability</i> , 2021 , 13, 8635	3.6	1
64	Mentoring and Coaching as a Learning Technique in Higher Education: The Impact of Learning Context on Student Engagement in Online Learning. <i>Education Sciences</i> , 2021 , 11, 574	2.2	
63	Performance characteristics of a tungsten collimator and UVTRON flame sensor in the detection of alpha-induced radioluminescence. <i>Radiation Physics and Chemistry</i> , 2020 , 177, 109197	2.5	
62	Academic Standards and Quality Assurance: The Impact of COVID-19 on University Degree Programs. <i>Sustainability</i> , 2020 , 12, 10032	3.6	7
61	Online Delivery and Assessment during COVID-19: Safeguarding Academic Integrity. <i>Education Sciences</i> , 2020 , 10, 301	2.2	49
60	Online Delivery of Teaching and Laboratory Practices: Continuity of University Programmes during COVID-19 Pandemic. <i>Education Sciences</i> , 2020 , 10, 291	2.2	62
59	Big Data Analytics Based Short Term Load Forecasting Model for Residential Buildings in Smart Grids 2020 ,		2

58	. <i>IEEE Access</i> , 2020 , 8, 148622-148643	3.5	17
57	Critical Review of Scintillating Crystals for Neutron Detection. <i>Crystals</i> , 2019 , 9, 480	2.3	18
56	Integration of Ground- Penetrating Radar and Gamma-Ray Detectors for Nonintrusive Characterisation of Buried Radioactive Objects. <i>Sensors</i> , 2019 , 19,	3.8	1
55	Nonintrusive Depth Estimation of Buried Radioactive Wastes Using Ground Penetrating Radar and a Gamma Ray Detector. <i>Remote Sensing</i> , 2019 , 11, 141	5	8
54	Pulse shape discrimination performance of a pixelated plastic scintillator (EJ-299-34) for a coded-aperture based dual particle imaging system. <i>Journal of Instrumentation</i> , 2019 , 14, P07017-P07017		4
53	Assessment and Feedback for Large Classes in Transnational Engineering Education: StudentStaff Partnership-Based Innovative Approach. <i>Education Sciences</i> , 2019 , 9, 221	2.2	0
52	Direct measurement of strontium 90 in groundwater: geometry optimisation of a photodiode based detector. <i>Journal of Instrumentation</i> , 2019 , 14, P10018-P10018	1	2
51	A Systematic Review of Project Allocation Methods in Undergraduate Transnational Engineering Education. <i>Education Sciences</i> , 2019 , 9, 258	2.2	2
50	Alpha Particle Detection Using Alpha-Induced Air Radioluminescence: A Review and Future Prospects for Preliminary Radiological Characterisation for Nuclear Facilities Decommissioning. <i>Sensors</i> , 2018 , 18,	3.8	8
49	A Novel Method for Remote Depth Estimation of Buried Radioactive Contamination. <i>Sensors</i> , 2018 , 18,	3.8	5
48	A Model for Remote Depth Estimation of Buried Radioactive Wastes Using CdZnTe Detector. <i>Sensors</i> , 2018 , 18,	3.8	3
47	Gas Flow to Enhance the Detection of Alpha-Induced Air Radioluminescence Based on a UVTron Flame Sensor. <i>Sensors</i> , 2018 , 18,	3.8	5
46	Heuristic Algorithm Based Dynamic Scheduling Model of Home Appliances in Smart Grid 2018 ,		3
45	The Effect of Gamma and Beta Radiation on a UVTRON Flame Sensor: Assessment of the Impact on Implementation in a Mixed Radiation Field. <i>Sensors</i> , 2018 , 18,	3.8	1
44	Beta detection of strontium-90 and the potential for direct in situ beta detection for nuclear decommissioning applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018 , 911, 55-65	1.2	6
43	Detection of strontium-90, a review and the potential for direct in situ detection 2018 ,		1
42	Ground Penetrating Radar as a Contextual Sensor for Multi-Sensor Radiological Characterisation. <i>Sensors</i> , 2017 , 17,	3.8	5
41	Pulse shape discrimination characteristics of stilbene crystal, pure and ⁶ Li loaded plastic scintillators for a high resolution coded-aperture neutron imager. <i>Journal of Instrumentation</i> , 2017 , 12, P07023-P07023	1	9

40	Investigation into a suitable scintillator and coded-aperture material for a mixed-field radiation imaging system. <i>Journal of Instrumentation</i> , 2017 , 12, P12007-P12007	1	3
39	First Results of Using a UVTron Flame Sensor to Detect Alpha-Induced Air Fluorescence in the UVC Wavelength Range. <i>Sensors</i> , 2017 , 17,	3.8	9
38	Improving the Reliability of Optimised Link State Routing in a Smart Grid Neighbour Area Network based Wireless Mesh Network Using Multiple Metrics. <i>Energies</i> , 2017 , 10, 287	3.1	15
37	Hybrid wind power balance control strategy using thermal power, hydro power and flow batteries. <i>International Journal of Electrical Power and Energy Systems</i> , 2016 , 74, 310-321	5.1	11
36	Managing renewable intermittency in smart grid: Use of residential hot water heaters as a form of energy storage 2016 ,		1
35	Distributed Energy Storage Using Residential Hot Water Heaters. <i>Energies</i> , 2016 , 9, 127	3.1	10
34	Performance analysis of variable Smart Grid traffic over ad hoc Wireless Mesh Networks 2016 ,		2
33	A novel approach to neutron dosimetry. <i>Medical Physics</i> , 2016 , 43, 5981	4.4	2
32	Multiple metrics-OLSR in NAN for Advanced Metering Infrastructures 2016 ,		1
31	Coded-aperture imaging systems: Past, present and future development [A review]. <i>Radiation Measurements</i> , 2016 , 92, 59-71	1.5	78
30	Comparative analysis of pulse shape discrimination methods in a ⁶ Li loaded plastic scintillator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015 , 788, 146-153	1.2	22
29	Neutron gamma fraction imaging: Detection, location and identification of neutron sources. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015 , 788, 9-12	1.2	6
28	Neutron assay in mixed radiation fields with ⁶ Li-loaded plastic scintillator. <i>Journal of Instrumentation</i> , 2015 , 10, P08012-P08012	1	3
27	Hexagonal uniformly redundant arrays (HURAs) for scintillator based coded aperture neutron imaging 2015 ,		1
26	Resilient communication for smart grid ubiquitous sensor network: State of the art and prospects for next generation. <i>Computer Communications</i> , 2015 , 71, 34-49	5.1	22
25	Forecasting hot water consumption in dwellings using artificial neural networks 2015 ,		3
24	Detecting energy dependent neutron capture distributions in a liquid scintillator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015 , 776, 1-7	1.2	1
23	Performance characteristics of a polyethylene collimator with an EJ-426 detector in neutron source localisation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014 , 755, 1-5	1.2	

22	Critical review of directional neutron survey meters. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014 , 735, 7-11	1.2	7
21	Demand side management in smart grid: A review and proposals for future direction. <i>Sustainable Cities and Society</i> , 2014 , 11, 22-30	10.1	357
20	A Monte Carlo study of the effect of coded-aperture material and thickness on neutron imaging. <i>Radiation Protection Dosimetry</i> , 2014 , 161, 265-8	0.9	0
19	Sector-shaped fast organic liquid scintillation detectors based neutron coincidence counter. <i>Applied Radiation and Isotopes</i> , 2014 , 92, 1-5	1.7	2
18	Real-Time, Fast Neutron Coincidence Assay of Plutonium With a 4-Channel Multiplexed Analyzer and Organic Scintillators. <i>IEEE Transactions on Nuclear Science</i> , 2014 , 61, 1340-1348	1.7	15
17	Imaging of primary and secondary radiation Modelling and experimental results of a radioactive source and a water phantom. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014 , 763, 412-416	1.2	
16	Neural Network Based Real-Time Pricing in Demand Side Management for Future Smart Grid 2014 ,		1
15	Resilient wireless communication networking for Smart grid BAN 2014 ,		9
14	An investigation into a suitable scintillator for localising neutron capture within a detector. <i>Journal of Instrumentation</i> , 2014 , 9, P01007-P01007	1	2
13	Investigation of three-dimensional localisation of radioactive sources using a fast organic liquid scintillator detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013 , 707, 123-126	1.2	9
12	A Monte Carlo model for neutron coincidence counting with fast organic liquid scintillation detectors 2013 ,		1
11	2013 ,		1
10	Estimation of the contribution of primary and secondary radiation to a pinhole volume from a water phantom 2013 ,		1
9	Scintillator based coded-aperture imaging for neutron detection 2013 ,		1
8	A 4-channel multiplex analyzer for real-time, parallel processing of fast scintillators 2012 ,		5
7	A Comparison of Collimator Geometries for Imaging Mixed Radiation Fields With Fast Liquid Organic Scintillators. <i>IEEE Transactions on Nuclear Science</i> , 2012 , 59, 1432-1437	1.7	6
6	A digital approach to neutron- γ imaging with a narrow tungsten collimator aperture and a fast organic liquid scintillator detector. <i>Applied Radiation and Isotopes</i> , 2012 , 70, 1223-7	1.7	9
5	A comparison of collimator geometries for imaging mixed radiation fields with fast liquid organic scintillators 2011 ,		1

4	An analytical approach to β -ray self-shielding effects for radioactive bodies encountered nuclear decommissioning scenarios. <i>Applied Radiation and Isotopes</i> , 2011 , 69, 1521-32	1.7	4
3	Combined digital imaging of mixed-field radioactivity with a single detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 635, 74-77	1.2	21
2	A comparison of four different digital algorithms for pulse-shape discrimination in fast scintillators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 642, 78-83	1.2	68
1	Digital approaches to field neutron spectrometry. <i>Radiation Measurements</i> , 2010 , 45, 1305-1308	1.5	16