Kelum A A Gamage

List of Publications by Citations

75	964	13	29
papers	citations	h-index	g-index
86	1,282	2.6	5.07
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
75	Demand side management in smart grid: A review and proposals for future direction. *Sustainable Cities and Society*, **2014**, 11, 22-30	10.1	357
74	Coded-aperture imaging systems: Past, present and future development □A review. *Radiation Measurements*, **2016**, 92, 59-71	1.5	78
73	A comparison of four different digital algorithms for pulse-shape discrimination in fast scintillators. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2011**, 642, 78-83	1.2	68
72	Online Delivery of Teaching and Laboratory Practices: Continuity of University Programmes during COVID-19 Pandemic. *Education Sciences*, **2020**, 10, 291	2.2	62
71	Online Delivery and Assessment during COVID-19: Safeguarding Academic Integrity. *Education Sciences*, **2020**, 10, 301	2.2	49
70	Comparative analysis of pulse shape discrimination methods in a 6Li loaded plastic scintillator. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2015**, 788, 146-153	1.2	22
69	Resilient communication for smart grid ubiquitous sensor network: State of the art and prospects for next generation. *Computer Communications*, **2015**, 71, 34-49	5.1	22
68	Combined digital imaging of mixed-field radioactivity with a single detector. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2011**, 635, 74-77	1.2	21
67	Critical Review of Scintillating Crystals for Neutron Detection. *Crystals*, **2019**, 9, 480	2.3	18
66	. *IEEE Access*, **2020**, 8, 148622-148643	3.5	17
65	Digital approaches to field neutron spectrometry. *Radiation Measurements*, **2010**, 45, 1305-1308	1.5	16
64	Real-Time, Fast Neutron Coincidence Assay of Plutonium With a 4-Channel Multiplexed Analyzer and Organic Scintillators. *IEEE Transactions on Nuclear Science*, **2014**, 61, 1340-1348	1.7	15
63	Improving the Reliability of Optimised Link State Routing in a Smart Grid Neighbour Area Network based Wireless Mesh Network Using Multiple Metrics. *Energies*, **2017**, 10, 287	3.1	15
62	Hybrid wind power balance control strategy using thermal power, hydro power and flow batteries. *International Journal of Electrical Power and Energy Systems*, **2016**, 74, 310-321	5.1	11
61	Distributed Energy Storage Using Residential Hot Water Heaters. *Energies*, **2016**, 9, 127	3.1	10
60	Resilient wireless communication networking for Smart grid BAN **2014**,		9
59	Investigation of three-dimensional localisation of radioactive sources using a fast organic liquid scintillator detector. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2013**, 707, 123-126	1.2	9

58	Pulse shape discrimination characteristics of stilbene crystal, pure and 6Li loaded plastic scintillators for a high resolution coded-aperture neutron imager. *Journal of Instrumentation*, **2017**, 12, P07023-P07023	1	9
57	First Results of Using a UVTron Flame Sensor to Detect Alpha-Induced Air Fluorescence in the UVC Wavelength Range. *Sensors*, **2017**, 17,	3.8	9
56	A digital approach to neutron-imaging with a narrow tungsten collimator aperture and a fast organic liquid scintillator detector. *Applied Radiation and Isotopes*, **2012**, 70, 1223-7	1.7	9
55	Nonintrusive Depth Estimation of Buried Radioactive Wastes Using Ground Penetrating Radar and a Gamma Ray Detector. *Remote Sensing*, **2019**, 11, 141	5	8
54	Alpha Particle Detection Using Alpha-Induced Air Radioluminescence: A Review and Future Prospects for Preliminary Radiological Characterisation for Nuclear Facilities Decommissioning. *Sensors*, **2018**, 18,	3.8	8
53	Critical review of directional neutron survey meters. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2014**, 735, 7-11	1.2	7
52	Academic Standards and Quality Assurance: The Impact of COVID-19 on University Degree Programs. *Sustainability*, **2020**, 12, 10032	3.6	7
51	Neutron gamma fraction imaging: Detection, location and identification of neutron sources. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2015**, 788, 9-12	1.2	6
50	A Comparison of Collimator Geometries for Imaging Mixed Radiation Fields With Fast Liquid Organic Scintillators. *IEEE Transactions on Nuclear Science*, **2012**, 59, 1432-1437	1.7	6
49	Beta detection of strontium-90 and the potential for direct in situ beta detection for nuclear decommissioning applications. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2018**, 911, 55-65	1.2	6
48	Ground Penetrating Radar as a Contextual Sensor for Multi-Sensor Radiological Characterisation. *Sensors*, **2017**, 17,	3.8	5
47	A Novel Method for Remote Depth Estimation of Buried Radioactive Contamination. *Sensors*, **2018**, 18,	3.8	5
46	Gas Flow to Enhance the Detection of Alpha-Induced Air Radioluminescence Based on a UVTron Flame Sensor. *Sensors*, **2018**, 18,	3.8	5
45	A 4-channel multiplex analyzer for real-time, parallel processing of fast scintillators **2012**,		5
44	A Stacked Machine and Deep Learning-based Approach for Analysing Electricity Theft in Smart Grids. *IEEE Transactions on Smart Grid*, **2021**, 1-1	10.7	5
43	Pulse shape discrimination performance of a pixelated plastic scintillator (EJ-299-34) for a coded-aperture based dual particle imaging system. *Journal of Instrumentation*, **2019**, 14, P07017-P07017	1	4
42	An analytical approach to -ray self-shielding effects for radioactive bodies encountered nuclear decommissioning scenarios. *Applied Radiation and Isotopes*, **2011**, 69, 1521-32	1.7	4
41	Neutron assay in mixed radiation fields with a6Li-loaded plastic scintillator. *Journal of Instrumentation*, **2015**, 10, P08012-P08012	1	3

40	A Model for Remote Depth Estimation of Buried Radioactive Wastes Using CdZnTe Detector. *Sensors*, **2018**, 18,	3.8	3
39	Investigation into a suitable scintillator and coded-aperture material for a mixed-field radiation imaging system. *Journal of Instrumentation*, **2017**, 12, P12007-P12007	1	3
38	Forecasting hot water consumption in dwellings using artificial neural networks **2015**,		3
37	Happy Sustainability: A Future Quest for More Sustainable Universities. *Social Sciences*, **2022**, 11, 24	1.8	3
36	Synergistic enhancement of CdSe/ZnS quantum dot and liquid scintillator for radioluminescent nuclear batteries. *International Journal of Energy Research*, **2021**, 45, 12195-12202	4.5	3
35	Big Data Analytics for Electricity Theft Detection in Smart Grids **2021**,		3
34	Heuristic Algorithm Based Dynamic Scheduling Model of Home Appliances in Smart Grid **2018**,		3
33	Direct measurement of strontium 90 in groundwater: geometry optimisation of a photodiode based detector. *Journal of Instrumentation*, **2019**, 14, P10018-P10018	1	2
32	Sector-shaped fast organic liquid scintillation detectors based neutron coincidence counter. *Applied Radiation and Isotopes*, **2014**, 92, 1-5	1.7	2
31	An investigation into a suitable scintillator for localising neutron capture within a detector. *Journal of Instrumentation*, **2014**, 9, P01007-P01007	1	2
30	Big Data Analytics Based Short Term Load Forecasting Model for Residential Buildings in Smart Grids **2020**,		2
29	The Role of Personal Values in Learning Approaches and Student Achievements. *Behavioral Sciences (Basel, Switzerland)*, **2021**, 11,	2.3	2
28	Performance analysis of variable Smart Grid traffic over ad hoc Wireless Mesh Networks **2016**,		2
27	A novel approach to neutron dosimetry. *Medical Physics*, **2016**, 43, 5981	4.4	2
26	A Systematic Review of Project Allocation Methods in Undergraduate Transnational Engineering Education. *Education Sciences*, **2019**, 9, 258	2.2	2
25	Integration of Ground- Penetrating Radar and Gamma-Ray Detectors for Nonintrusive Characterisation of Buried Radioactive Objects. *Sensors*, **2019**, 19,	3.8	1
24	Managing renewable intermittency in smart grid: Use of residential hot water heaters as a form of energy storage **2016**,		1
23	Neural Network Based Real-Time Pricing in Demand Side Management for Future Smart Grid **2014**,		1

22	Hexagonal uniformly redundant arrays (HURAs) for scintillator based coded aperture neutron imaging **2015**,		1
21	Detecting energy dependent neutron capture distributions in a liquid scintillator. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2015**, 776, 1-7	1.2	1
20	A Monte Carlo model for neutron coincidence counting with fast organic liquid scintillation detectors **2013**,		1
19	**2013**,		1
18	Estimation of the contribution of primary and secondary radiation to a pinhole volume from a water phantom **2013**,		1
17	Scintillator based coded-aperture imaging for neutron detection **2013**,		1
16	A comparison of collimator geometries for imaging mixed radiation fields with fast liquid organic scintillators **2011**,		1
15	Multiple metrics-OLSR in NAN for Advanced Metering Infrastructures **2016**,		1
14	The Simulated Characterization and Suitability of Semiconductor Detectors for Strontium 90 Assay in Groundwater. *Sensors*, **2021**, 21,	3.8	1
13	The Effect of Gamma and Beta Radiation on a UVTRON Flame Sensor: Assessment of the Impact on Implementation in a Mixed Radiation Field. *Sensors*, **2018**, 18,	3.8	1
12	Detection of strontium-90, a review and the potential for direct in situ detection **2018**,		1
11	Learning Remotely during a Pandemic: Are Students in a Developing Country Fully Equipped with Tools for Swift Changes?. *Sustainability*, **2021**, 13, 8635	3.6	1
10	Rethinking Assessment: The Future of Examinations in Higher Education. *Sustainability*, **2022**, 14, 3552	3.6	1
9	Assessment and Feedback for Large Classes in Transnational Engineering Education: Student–Staff Partnership-Based Innovative Approach. *Education Sciences*, **2019**, 9, 221	2.2	0
8	A Monte Carlo study of the effect of coded-aperture material and thickness on neutron imaging. *Radiation Protection Dosimetry*, **2014**, 161, 265-8	0.9	0
7	Undergraduate Students' Device Preferences in the Transition to Online Learning. *Social Sciences*, **2021**, 10, 288	1.8	0
6	Embedding Sustainability in Learning and Teaching: Lessons Learned and Moving Forward—Approaches in STEM Higher Education Programmes. *Education Sciences*, **2022**, 12, 225	2.2	0
5	Performance characteristics of a tungsten collimator and UVTRON flame sensor in the detection of alpha-induced radioluminescence. *Radiation Physics and Chemistry*, **2020**, 177, 109197	2.5	

4	Performance characteristics of a polyethylene collimator with an EJ-426 detector in neutron source localisation. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2014**, 755, 1-5	1.2
3	Imaging of primary and secondary radiation: Modelling and experimental results of a radioactive source and a water phantom. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2014**, 763, 412-416	1.2
2	Characterisation and suitability of a CdTe detector for strontium 90 assay in groundwater. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2021**, 997, 165155	1.2
1	Mentoring and Coaching as a Learning Technique in Higher Education: The Impact of Learning Context on Student Engagement in Online Learning. *Education Sciences*, **2021**, 11, 574	2.2