

Kelum A A Gamage

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

1,641
citations

567144

15
h-index

315616

38
g-index

86
all docs

86
docs citations

86
times ranked

1542
citing authors

#	ARTICLE	IF	CITATIONS
1	Demand side management in smart grid: A review and proposals for future direction. <i>Sustainable Cities and Society</i> , 2014, 11, 22-30.	5.1	484
2	Online Delivery of Teaching and Laboratory Practices: Continuity of University Programmes during COVID-19 Pandemic. <i>Education Sciences</i> , 2020, 10, 291.	1.4	170
3	Coded-aperture imaging systems: Past, present and future development – A review. <i>Radiation Measurements</i> , 2016, 92, 59-71.	0.7	128
4	Online Delivery and Assessment during COVID-19: Safeguarding Academic Integrity. <i>Education Sciences</i> , 2020, 10, 301.	1.4	123
5	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.	0.7	83
6	Heuristic Algorithm Based Optimal Power Flow Model Incorporating Stochastic Renewable Energy Sources. <i>IEEE Access</i> , 2020, 8, 148622-148643.	2.6	56
7	Critical Review of Scintillating Crystals for Neutron Detection. <i>Crystals</i> , 2019, 9, 480.	1.0	50
8	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.	0.7	33
9	A Stacked Machine and Deep Learning-Based Approach for Analysing Electricity Theft in Smart Grids. <i>IEEE Transactions on Smart Grid</i> , 2022, 13, 1633-1644.	6.2	33
10	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.	3.1	27
11	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.	0.7	26
12	Digital approaches to field neutron spectrometry. <i>Radiation Measurements</i> , 2010, 45, 1305-1308.	0.7	24
13	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.	1.6	24
14	The Role of Personal Values in Learning Approaches and Student Achievements. <i>Behavioral Sciences (Basel, Switzerland)</i> , 2021, 11, 102.	1.0	20
15	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, 1015.	2.1	18
16	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.	1.2	17
17	Distributed Energy Storage Using Residential Hot Water Heaters. <i>Energies</i> , 2016, 9, 127.	1.6	16
18	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.	3.3	15

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19	Academic Standards and Quality Assurance: The Impact of COVID-19 on University Degree Programs. Sustainability, 2020, 12, 10032.	1.6	15
20	Resilient wireless communication networking for Smart grid BAN. , 2014, , .		13
21	Pulse shape discrimination characteristics of stilbene crystal, pure and ⁶ Li loaded plastic scintillators for a high resolution coded-aperture neutron imager. Journal of Instrumentation, 2017, 12, P07023-P07023.	0.5	13
22	A digital approach to imaging with a narrow tungsten collimator aperture and a fast organic liquid scintillator detector. Applied Radiation and Isotopes, 2012, 70, 1223-1227.	0.7	11
23	Nonintrusive Depth Estimation of Buried Radioactive Wastes Using Ground Penetrating Radar and a Gamma Ray Detector. Remote Sensing, 2019, 11, 141.	1.8	11
24	Hyperparameter Optimization of Bayesian Neural Network Using Bayesian Optimization and Intelligent Feature Engineering for Load Forecasting. Sensors, 2022, 22, 4446.	2.1	11
25	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.	0.7	10
26	First Results of Using a UVTron Flame Sensor to Detect Alpha-Induced Air Fluorescence in the UVC Wavelength Range. Sensors, 2017, 17, 2756.	2.1	10
27	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.	0.7	10
28	A 4-channel multiplex analyzer for real-time, parallel processing of fast scintillators. , 2012, , .		9
29	Gas Flow to Enhance the Detection of Alpha-Induced Air Radioluminescence Based on a UVTron Flame Sensor. Sensors, 2018, 18, 1842.	2.1	9
30	Embedding Sustainability in Learning and Teaching: Lessons Learned and Moving Forward—Approaches in STEM Higher Education Programmes. Education Sciences, 2022, 12, 225.	1.4	9
31	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.	0.7	8
32	A Systematic Review of Project Allocation Methods in Undergraduate Transnational Engineering Education. Education Sciences, 2019, 9, 258.	1.4	8
33	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.	0.7	7
34	Performance analysis of variable Smart Grid traffic over ad hoc Wireless Mesh Networks. , 2016, , .		7
35	Ground Penetrating Radar as a Contextual Sensor for Multi-Sensor Radiological Characterisation. Sensors, 2017, 17, 790.	2.1	7
36	Rethinking Assessment: The Future of Examinations in Higher Education. Sustainability, 2022, 14, 3552.	1.6	7

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37	A Comparison of Collimator Geometries for Imaging Mixed Radiation Fields With Fast Liquid Organic Scintillators. IEEE Transactions on Nuclear Science, 2012, 59, 1432-1437.	1.2	6
38	A Novel Method for Remote Depth Estimation of Buried Radioactive Contamination. Sensors, 2018, 18, 507.	2.1	6
39	A Model for Remote Depth Estimation of Buried Radioactive Wastes Using CdZnTe Detector. Sensors, 2018, 18, 1612.	2.1	6
40	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.	0.5	6
41	Undergraduate Studentsâ€™ Device Preferences in the Transition to Online Learning. Social Sciences, 2021, 10, 288.	0.7	6
42	Synergistic enhancement of <sc>CdSe</sc> / <sc>ZnS</sc> quantum dot and liquid scintillator for radioluminescent nuclear batteries. International Journal of Energy Research, 2021, 45, 12195-12202.	2.2	6
43	An analytical approach to self-shielding effects for radioactive bodies encountered nuclear decommissioning scenarios. Applied Radiation and Isotopes, 2011, 69, 1521-1532.	0.7	5
44	Transmission Line Fault Classification of Multi-Dataset Using CatBoost Classifier. Signals, 2022, 3, 468-482.	1.2	5
45	Forecasting hot water consumption in dwellings using artificial neural networks. , 2015, , .		4
46	Neutron assay in mixed radiation fields with a⁶Li-loaded plastic scintillator. Journal of Instrumentation, 2015, 10, P08012-P08012.	0.5	4
47	Investigation into a suitable scintillator and coded-aperture material for a mixed-field radiation imaging system. Journal of Instrumentation, 2017, 12, P12007-P12007.	0.5	4
48	Heuristic Algorithm Based Dynamic Scheduling Model of Home Appliances in Smart Grid. , 2018, , .		4
49	Big Data Analytics Based Short Term Load Forecasting Model for Residential Buildings in Smart Grids. , 2020, , .		4
50	Big Data Analytics for Electricity Theft Detection in Smart Grids. , 2021, , .		4
51	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.	1.4	4
52	Optimal Power Flow Solution with Uncertain RES using Augmented Grey Wolf Optimization. , 2020, , .		4
53	Happy Sustainability: A Future Quest for More Sustainable Universities. Social Sciences, 2022, 11, 24.	0.7	4
54	Neural Network Based Real-Time Pricing in Demand Side Management for Future Smart Grid. , 2014, , .		3

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55	A novel approach to neutron dosimetry. <i>Medical Physics</i> , 2016, 43, 5981-5990.	1.6	3
56	Managing renewable intermittency in smart grid: Use of residential hot water heaters as a form of energy storage. , 2016, , .		3
57	Assessment and Feedback for Large Classes in Transnational Engineering Education: Studentâ€“Staff Partnership-Based Innovative Approach. <i>Education Sciences</i> , 2019, 9, 221.	1.4	3
58	Learning Remotely during a Pandemic: Are Students in a Developing Country Fully Equipped with Tools for Swift Changes?. <i>Sustainability</i> , 2021, 13, 8635.	1.6	3
59	An investigation into a suitable scintillator for localising neutron capture within a detector. <i>Journal of Instrumentation</i> , 2014, 9, P01007-P01007.	0.5	2
60	A Monte Carlo study of the effect of coded-aperture material and thickness on neutron imaging. <i>Radiation Protection Dosimetry</i> , 2014, 161, 265-268.	0.4	2
61	Sector-shaped fast organic liquid scintillation detectors based neutron coincidence counter. <i>Applied Radiation and Isotopes</i> , 2014, 92, 1-5.	0.7	2
62	Multiple metrics-OLSR in NAN for Advanced Metering Infrastructures. , 2016, , .		2
63	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, 4394.	2.1	2
64	Direct measurement of strontium 90 in groundwater: geometry optimisation of a photodiode based detector. <i>Journal of Instrumentation</i> , 2019, 14, P10018-P10018.	0.5	2
65	A comparison of collimator geometries for imaging mixed radiation fields with fast liquid organic scintillators. , 2011, , .		1
66	A Monte Carlo model for neutron coincidence counting with fast organic liquid scintillation detectors. , 2013, , .		1
67	Critical review of directional neutron survey meters. , 2013, , .		1
68	Estimation of the contribution of primary and secondary radiation to a pinhole volume from a water phantom. , 2013, , .		1
69	Scintillator based coded-aperture imaging for neutron detection. , 2013, , .		1
70	Hexagonal uniformly redundant arrays (HURAs) for scintillator based coded aperture neutron imaging. , 2015, , .		1
71	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.	0.7	1
72	Detection of strontium-90, a review and the potential for direct in situ detection. , 2018, , .		1

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73	Integration of Ground- Penetrating Radar and Gamma-Ray Detectors for Nonintrusive Characterisation of Buried Radioactive Objects. <i>Sensors</i> , 2019, 19, 2743.	2.1	1
74	The Simulated Characterization and Suitability of Semiconductor Detectors for Strontium 90 Assay in Groundwater. <i>Sensors</i> , 2021, 21, 984.	2.1	1
75	Real-time, digital imaging of fast neutrons and γ rays with a single fast liquid scintillation detector. , 2011, , .		0
76	Investigation of three-dimensional localisation of neutron sources using parallel axis imaging. , 2012, , .		0
77	Control strategy for balancing wind power using hydro power and flow batteries. , 2014, , .		0
78	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.	0.7	0
79	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.	0.7	0
80	Characterisation of a pixelated plastic scintillator for a coded aperture neutron/gamma imaging system. , 2018, , .		0
81	Detecting Alpha-induced Radioluminescence in the UVC Wavelength Range Using a UVTron Flame Sensor, and the Effect of a Gas Flow on Detection Rates as Compared to an Air Atmosphere. , 2018, , .		0
82	Validation Of A Model For Nonintrusive Depth Estimation Of Buried Radioactive Wastes. , 2018, , .		0
83	Estimating the Depth of Buried Radioactive Sources using Ground Penetrating Radar and a Gamma Ray Detector. , 2019, , .		0
84	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.	1.4	0
85	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.	0.7	0
86	The Simulation of In-Situ Groundwater Detector Response as a Means of Identifying Beta Emitting Radionuclides by Linear Regression Analysis. <i>Sensors</i> , 2021, 21, 5732.	2.1	0