Jason P Hayward

List of Publications by Year
in descending order

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Version: 2024-02-01

59	447	840776	794594
papers	citations	11	19
		h-index	g-index

59	59	59	502
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sample-to-Sample Variation in Single Crystal YAP:Ce Non-Proportionality. IEEE Transactions on Nuclear Science, 2014, 61, 332-338.	2.0	68
2	Zero-Dimensional Hybrid Organicâ€“Inorganic Indium Bromide with Blue Emission. Inorganic Chemistry, 2021, 60, 1045-1054.	4.0	48
3	Metal Halide Scaffolded Assemblies of Organic Molecules with Enhanced Emission and Room Temperature Phosphorescence. Journal of Physical Chemistry Letters, 2021, 12, 8229-8236.	4.6	27
4	The Effect of B^{3+} and Ca^{2+}Co-Doping on Factors Which Affect the Energy Resolution of Gd$_{{3}}$Ga$_{{3}}$Al$_{{2}}$O$_{{12}}$: Ce. IEEE Transactions on Nuclear Science, 2013, 60, 4002-4006.	2.0	19
5	A generalized muon trajectory estimation algorithm with energy loss for application to muon tomography. Journal of Applied Physics, 2018, 123, .	2.5	18
6	Incomplete charge collection in an HPGe double-sided strip detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 586, 215-223.	1.6	17
7	Scintillation Liquids Loaded with Hafnium Oxide Nanoparticles for Spectral Resolution of Î³ Rays. ACS Applied Nano Materials, 2021, 4, 1220-1227.	5.0	17
8	Timing Resolution Study of an Associated Particle Detector for Fast Neutron Imaging. IEEE Transactions on Nuclear Science, 2012, 59, 1750-1756.	2.0	14
9	Benchmarking the Geant4 full system simulation of an associated alpha-particle detector for use in a Dâ€“T neutron generator. Applied Radiation and Isotopes, 2012, 70, 1485-1493.	1.5	14
10	Characterizing the Timing Performance of a Fast 4H-SiC Detector With an <formula formulatype="inline"><tex Notation="TeX">^{241}</tex> </formula>Am Source. IEEE Transactions on Nuclear Science, 2013, 60, 2352-2356.	2.0	13
11	Monte Carlo simulation of a very high resolution thermal neutron detector composed of glass scintillator microfibers. Applied Radiation and Isotopes, 2016, 108, 100-107.	1.5	13
12	Muon Tracing and Image Reconstruction Algorithms for Cosmic Ray Muon Computed Tomography. IEEE Transactions on Image Processing, 2019, 28, 426-435.	9.8	12
13	A Plastic Scintillator Based on an Efficient Thermally Activated Delayed Fluorescence Emitter 9â€(4â€(4,6â€diphenylâ€1,3,5â€triazinâ€2â€yl)â€2â€methylphenyl)â€3,6â€dioctylâ€9 H â€carbazole for Pulse Shape Discrimination Measurement. Advanced Optical Materials, 2021, 9, 2001975.	7.4	12
14	Study of sampling rate influence on neutronâ€“gamma discrimination with stilbene coupled to a silicon photomultiplier. Applied Radiation and Isotopes, 2017, 128, 120-124.	1.5	11
15	Increased Light Extraction From Inorganic Scintillators With Laser-Etched Microstructures. IEEE Transactions on Nuclear Science, 2013, 60, 1027-1032.	2.0	10
16	Angular resolution study of a combined gamma-neutron coded aperture imager for standoff detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 712, 120-125.	1.6	10
17	Characterizing the radiation response of Cherenkov glass detectors with isotopic sources. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 1143-1151.	1.5	8
18	Observations regarding inclusions in the growth of Cs2HfCl6 single crystal scintillators. Journal of Crystal Growth, 2020, 531, 125336.	1.5	8

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19	Observation of charge-sharing in an HPGe double-sided strip detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 99-103.	1.6	7
20	Simulated response of Cherenkov glass detectors to MeV photons. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 1321-1329.	1.5	7
21	Design and Characterization of a Scintillator-Based Position-Sensitive Detector for Muon Imaging. Nuclear Technology, 2019, 205, 736-747.	1.2	7
22	New method to remove the electronic noise for absolutely calibrating low gain photomultiplier tubes with a higher precision. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 755, 32-37.	1.6	6
23	Neutron Imaging With Li-Glass Based Multicore SCIntillating FIber (SCIFI). Journal of Lightwave Technology, 2019, 37, 5699-5706.	4.6	6
24	Charge Loss Correction in a High-Purity Germanium Double-Sided Strip Detector. IEEE Transactions on Nuclear Science, 2008, 55, 2789-2797.	2.0	5
25	Measurements of Thermal Neutron Response in Cherenkov Glasses Designed for MeV Photon Detection. IEEE Transactions on Nuclear Science, 2013, 60, 701-707.	2.0	5
26	Time Resolution Measurements of EJ-232Q With Single- and Dual-Sided Readouts. IEEE Transactions on Nuclear Science, 2020, 67, 2081-2088.	2.0	5
27	Transmission and signal loss in mask designs for a dual neutron and gamma imager applied to mobile standoff detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 712, 1-8.	1.6	4
28	Sensing of 252Cf fission gamma rays using same-size glass detectors. Journal of Radioanalytical and Nuclear Chemistry, 2016, 308, 919-926.	1.5	4
29	Design optimization for a wearable, gamma-ray and neutron sensitive, detector array with directionality estimation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 870, 131-139.	1.6	4
30	Performance of a Boron-Coated-Straw- Based HLNCC for International Safeguards Applications. IEEE Transactions on Nuclear Science, 2017, 64, 2690-2697.	2.0	4
31	Correlation of Nonproportionality and Scintillation Properties with Cerium Concentration in YAlO3:Ce. IEEE Transactions on Nuclear Science, 2018, 65, 1218-1225.	2.0	4
32	Inter-Strip Interpolation Measurements in a High-Purity Germanium Double-Sided Strip Detector. IEEE Transactions on Nuclear Science, 2009, 56, 800-807.	2.0	3
33	Investigation of Active Background From Photofission in Depleted Uranium Using Cherenkov Detectors and Gamma Ray Time-of-Flight Analysis. IEEE Transactions on Nuclear Science, 2014, 61, 2402-2409.	2.0	3
34	Thermal diffusion of mixed valence Ce in 6Li loaded silicate glass for neutron imaging. Journal of Non-Crystalline Solids, 2018, 498, 145-152.	3.1	3
35	Determining 235U enrichment in bulk uranium items using dual-energy interrogation with delayed neutron measurement. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 904, 74-80.	1.6	3
36	Tensile, flexural, and light output measurements of selected organic scintillators for evaluation of their potential as structural materials. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161448.	1.6	3

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37	Radiation hardness characterization of LKH-5 scintillating glass. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 982, 164551.	1.6	3
38	Simulated X-Ray Radiographic Performance of a Bismuth-Loaded PVT Array. IEEE Transactions on Nuclear Science, 2020, 67, 2329-2336.	2.0	3
39	Studying the effects of thermally diffusing Ce into the surface of YAlO3 for associated particle imaging. Nuclear Instruments & Methods in Physics Research B, 2020, 473, 55-61.	1.4	3
40	Measurement of Achievable Timing Resolution With ZnO:Ga Films. IEEE Transactions on Nuclear Science, 2013, 60, 3127-3133.	2.0	2
41	Significant Increases in Light Extraction From YAP:Ce Scintillators With a Uniform Surface Taper Modification at the Exit Boundary. IEEE Transactions on Nuclear Science, 2013, 60, 3995-4001.	2.0	2
42	Effect of ${m Ca}^{2+}{m Co}$-Doping on the Temperature Dependence of ${m Gd}_{2}{m SiO}_{5}:{m Ce}$ Photoluminescence. IEEE Transactions on Nuclear Science, 2013, 60, 973-978.	2.0	2
43	Study of cerium diffusion in undoped lithium-6 enriched glass with Rutherford backscattering spectrometry. Nuclear Instruments & Methods in Physics Research B, 2016, 378, 8-11.	1.4	2
44	A Point Kinetics Model for Estimating Neutron Multiplication of Bare Uranium Metal in Tagged Neutron Measurements. IEEE Transactions on Nuclear Science, 2017, 64, 1963-1969.	2.0	2
45	Fabrication and experimental evaluation of microstructured 6Li silicate fiber arrays for high spatial resolution neutron imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161695.	1.6	2
46	Organic liquid and nanocomposite scintillators for spectroscopic detections. , 2021, , .		2
47	Coded moderator approach for fast neutron source detection and localization at standoff. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 784, 364-369.	1.6	1
48	A multicore compound glass optical fiber for neutron imaging. Proceedings of SPIE, 2017, , .	0.8	1
49	A High Count Rate Neutron Beam Monitor for Neutron Scattering Facilities. IEEE Transactions on Nuclear Science, 2013, 60, 668-670.	2.0	0
50	Editorial Conference Comments by the Editors. IEEE Transactions on Nuclear Science, 2013, 60, 480-481.	2.0	0
51	Observation of material, thickness, and bremsstrahlung x-ray intensity dependent effects in moderate and high Z targets in a gamma and x-ray LIDAR experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 784, 621-624.	1.6	0
52	Editorial Conference Comments by the Editors. IEEE Transactions on Nuclear Science, 2017, 64, 1627-1628.	2.0	0
53	Fast neutron counting in a mobile, trailer-based search platform. EPJ Nuclear Sciences & Technologies, 2017, 3, 35.	0.7	0
54	A Prototype Cosmic-ray Muon Tomography System for Dry Storage Cask Monitoring. , 2017, , .		0

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55	Characteristics of Muon Computed Tomography of Used Fuel Casks Using Algebraic Reconstruction. , 2017, , .		0
56	Maximum-a-Posteriori Cosmic Ray Muon Trajectory Estimation with Energy Loss for Muon Tomography Applications. , 2017, , .		0
57	High Data-Rate Neutron-Sensitive Pixelated Detector Using Silicon Photomultiplier. , 2019, , .		0
58	Quantifying the determinants of leakage multiplication for large uranium objects using Monte Carlo simulations. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161684.	1.6	0
59	Evaluation of a novel bismuth-loaded plastic array for X-ray and neutron radiography. , 2020, , .		0