

Jason P Hayward

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Plastic Scintillator Based on an Efficient Thermally Activated Delayed Fluorescence Emitter 9-(4-(4,6-diphenyl-1,3,5-triazin-2-yl)-3,6-dimethylphenyl)-3,6-dioctyl-9H-carbazole for Pulse Shape Discrimination Measurement. <i>Advanced Optical Materials</i> , 2021, 9, 2001975.		
2	Zero-Dimensional Hybrid Organic-Inorganic Indium Bromide with Blue Emission. <i>Inorganic Chemistry</i> , 2021, 60, 1045-1054.	4.0	48
3	Scintillation Liquids Loaded with Hafnium Oxide Nanoparticles for Spectral Resolution of $\hat{\Gamma}^3$ Rays. <i>ACS Applied Nano Materials</i> , 2021, 4, 1220-1227.	5.0	17
4	Metal Halide Scaffolded Assemblies of Organic Molecules with Enhanced Emission and Room Temperature Phosphorescence. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8229-8236.	4.6	27
5	Organic liquid and nanocomposite scintillators for spectroscopic detections. , 2021, , .		2
6	Fabrication and experimental evaluation of microstructured 6Li silicate fiber arrays for high spatial resolution neutron imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 954, 161695.	1.6	2
7	Quantifying the determinants of leakage multiplication for large uranium objects using Monte Carlo simulations. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 954, 161684.	1.6	0
8	Tensile, flexural, and light output measurements of selected organic scintillators for evaluation of their potential as structural materials. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 954, 161448.	1.6	3
9	Observations regarding inclusions in the growth of Cs ₂ HfCl ₆ single crystal scintillators. <i>Journal of Crystal Growth</i> , 2020, 531, 125336.	1.5	8
10	Radiation hardness characterization of LKH-5 scintillating glass. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 982, 164551.	1.6	3
11	Time Resolution Measurements of EJ-232Q With Single- and Dual-Sided Readouts. <i>IEEE Transactions on Nuclear Science</i> , 2020, 67, 2081-2088.	2.0	5
12	Simulated X-Ray Radiographic Performance of a Bismuth-Loaded PVT Array. <i>IEEE Transactions on Nuclear Science</i> , 2020, 67, 2329-2336.	2.0	3
13	Studying the effects of thermally diffusing Ce into the surface of YAlO ₃ for associated particle imaging. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 473, 55-61.	1.4	3
14	Evaluation of a novel bismuth-loaded plastic array for X-ray and neutron radiography. , 2020, , .		0
15	Neutron Imaging With Li-Glass Based Multicore SCIntillating Fiber (SCIFI). <i>Journal of Lightwave Technology</i> , 2019, 37, 5699-5706.	4.6	6
16	High Data-Rate Neutron-Sensitive Pixelated Detector Using Silicon Photomultiplier. , 2019, , .		0
17	Muon Tracing and Image Reconstruction Algorithms for Cosmic Ray Muon Computed Tomography. <i>IEEE Transactions on Image Processing</i> , 2019, 28, 426-435.	9.8	12
18	Design and Characterization of a Scintillator-Based Position-Sensitive Detector for Muon Imaging. <i>Nuclear Technology</i> , 2019, 205, 736-747.	1.2	7

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19	A generalized muon trajectory estimation algorithm with energy loss for application to muon tomography. Journal of Applied Physics, 2018, 123, .	2.5	18
20	Correlation of Nonproportionality and Scintillation Properties with Cerium Concentration in YAlO ₃ :Ce. IEEE Transactions on Nuclear Science, 2018, 65, 1218-1225.	2.0	4
21	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
22	Determining ²³⁵ U 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
23	A multicore compound glass optical fiber for neutron imaging. Proceedings of SPIE, 2017, , .	0.8	1
24	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
25	Study of sampling rate influence on neutron-γ discrimination with stilbene coupled to a silicon photomultiplier. Applied Radiation and Isotopes, 2017, 128, 120-124.	1.5	11
26	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
27	Editorial Conference Comments by the Editors. IEEE Transactions on Nuclear Science, 2017, 64, 1627-1628.	2.0	0
28	Performance of a Boron-Coated-Straw- Based HLNCC for International Safeguards Applications. IEEE Transactions on Nuclear Science, 2017, 64, 2690-2697.	2.0	4
29	Fast neutron counting in a mobile, trailer-based search platform. EPJ Nuclear Sciences & Technologies, 2017, 3, 35.	0.7	0
30	A Prototype Cosmic-ray Muon Tomography System for Dry Storage Cask Monitoring. , 2017, , .		0
31	Characteristics of Muon Computed Tomography of Used Fuel Casks Using Algebraic Reconstruction. , 2017, , .		0
32	Maximum-a-Posteriori Cosmic Ray Muon Trajectory Estimation with Energy Loss for Muon Tomography Applications. , 2017, , .		0
33	Sensing of ²⁵² Cf fission gamma rays using same-size glass detectors. Journal of Radioanalytical and Nuclear Chemistry, 2016, 308, 919-926.	1.5	4
34	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
35	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
36	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

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37	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
38	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
39	Sample-to-Sample Variation in Single Crystal YAP:Ce Non-Proportionality. IEEE Transactions on Nuclear Science, 2014, 61, 332-338.	2.0	68
40	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
41	Measurement of Achievable Timing Resolution With ZnO:Ga Films. IEEE Transactions on Nuclear Science, 2013, 60, 3127-3133.	2.0	2
42	A High Count Rate Neutron Beam Monitor for Neutron Scattering Facilities. IEEE Transactions on Nuclear Science, 2013, 60, 668-670.	2.0	0
43	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
44	Increased Light Extraction From Inorganic Scintillators With Laser-Etched Microstructures. IEEE Transactions on Nuclear Science, 2013, 60, 1027-1032.	2.0	10
45	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
46	The Effect of B^{3+} and Ca^{2+} Co-Doping on Factors Which Affect the Energy Resolution of $Gd_3Ga_3Al_2O_{12}$: Ce. IEEE Transactions on Nuclear Science, 2013, 60, 4002-4006.	2.0	19
47	Characterizing the radiation response of Cherenkov glass detectors with isotopic sources. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 1143-1151.	1.5	8
48	Simulated response of Cherenkov glass detectors to MeV photons. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 1321-1329.	1.5	7
49	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
50	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
51	Effect of Ca^{2+} Co-Doping on the Temperature Dependence of Gd_2MgSiO_5 :Ce Photoluminescence. IEEE Transactions on Nuclear Science, 2013, 60, 973-978.	2.0	2
52	Editorial Conference Comments by the Editors. IEEE Transactions on Nuclear Science, 2013, 60, 480-481.	2.0	0
53	Characterizing the Timing Performance of a Fast 4H-SiC Detector With an ^{241}Am Source. IEEE Transactions on Nuclear Science, 2013, 60, 2352-2356.	2.0	13
54	Timing Resolution Study of an Associated Particle Detector for Fast Neutron Imaging. IEEE Transactions on Nuclear Science, 2012, 59, 1750-1756.	2.0	14

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55	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
56	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
57	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
58	Charge Loss Correction in a High-Purity Germanium Double-Sided Strip Detector. IEEE Transactions on Nuclear Science, 2008, 55, 2789-2797.	2.0	5
59	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