David L Chichester

List of Publications by Year
in descending order

22 papers	298 citations	1040056 9 h-index	888059 17 g-index
29 all docs	29 docs citations	29 times ranked	191 citing authors

#	Article	IF	Citations
1	Rattling nucleons: New developments in active interrogation of special nuclear material. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 663, 75-95.	1.6	112
2	Plutonium measurements with a fast-neutron multiplicity counter for nuclear safeguards applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 565-574.	1.6	33
3	Statistical estimation of the performance of a fast-neutron multiplicity system for nuclear material accountancy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 784, 448-454.	1.6	31
4	Neutron Multiplicity Counting Moments for Fissile Mass Estimation in Scatter-Based Neutron Detection Systems. Nuclear Science and Engineering, 2017, 188, 246-269.	1.1	18
5	Analysis of a shield design for a DT neutron generator test facility. Applied Radiation and Isotopes, 2007, 65, 1125-1133.	1.5	13
6	Dose profile modeling of Idaho National Laboratory's active neutron interrogation laboratory. Applied Radiation and Isotopes, 2009, 67, 1013-1022.	1.5	13
7	Comparison of BCF-10, BCF-12, and BCF-20 Scintillating Fibers for Use in a 1-Dimensional Linear Sensor. IEEE Transactions on Nuclear Science, 2013, 60, 4015-4021.	2.0	13
8	A combined neutron and gamma-ray multiplicity counter based on liquid scintillation detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 48-51.	1.6	11
9	Fast-neutron spectrometry using a 3He ionization chamber and digital pulse shape analysis. Applied Radiation and Isotopes, 2012, 70, 1457-1463.	1.5	9
10	Assessment of Performance of New-Generation Silicon Photomultipliers for Simultaneous Neutron and Gamma Ray Detection. IEEE Transactions on Nuclear Science, 2018, 65, 2554-2564.	2.0	8
11	Passive measurements of mixed-oxide fuel for nuclear nonproliferation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 703, 102-108.	1.6	7
12	Prompt fission neutron anisotropy in low-multiplying subcritical plutonium metal assemblies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 915, 110-115.	1.6	6
13	The MARVEL assembly for neutron multiplication. Applied Radiation and Isotopes, 2013, 80, 42-48.	1.5	4
14	Metrology for Transient Reactor Characterization Using Uranium Wires. Nuclear Technology, 2019, 205, 1336-1345.	1.2	4
15	Parametric evaluation of active neutron interrogation for the detection of shielded highly-enriched uranium in the field. , 2011, , .		3
16	Passive measurement of organic-scintillator neutron signatures for nuclear safeguards applications. , 2012, , .		3
17	Radiation Fields in the Vicinity of Compact Accelerator Neutron Generators. IEEE Transactions on Nuclear Science, 2008, 55, 614-619.	2.0	1
18	Direct alpha spectrometry as a screening method for assaying thick, highly-radioactive materials. Journal of Radioanalytical and Nuclear Chemistry, 2018, 318, 553-560.	1.5	1

#	Article	IF	Citations
19	Improved Localization Precision and Angular Resolution of a Cylindrical, Time-Encoded Imaging System From Adaptive Detector Movements. IEEE Transactions on Nuclear Science, 2021, 68, 410-425.	2.0	1
20	Development of a new multiplying assembly for research, validation, evaluation, and learning. , 2012, , .		0
21	Use of thermal-neutron time-correlated counting to analyze multiplying assemblies of HEU. , 2014, , .		0
22	Observation of natural background radiation during the Great American Eclipse. Applied Radiation and Isotopes, 2018, 142, 151-159.	1.5	0