

# David L Chichester

## List of Publications by Year in descending order

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22  
papers

298  
citations

1040056

9  
h-index

888059

17  
g-index

29  
all docs

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docs citations

29  
times ranked

191  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Metrology for Transient Reactor Characterization Using Uranium Wires. Nuclear Technology, 2019, 205, 1336-1345.	1.2	4
3	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
4	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
5	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
6	Observation of natural background radiation during the Great American Eclipse. Applied Radiation and Isotopes, 2018, 142, 151-159.	1.5	0
7	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
8	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
9	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
10	Use of thermal-neutron time-correlated counting to analyze multiplying assemblies of HEU. , 2014, , .		0
11	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
12	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
13	The MARVEL assembly for neutron multiplication. Applied Radiation and Isotopes, 2013, 80, 42-48.	1.5	4
14	Passive measurement of organic-scintillator neutron signatures for nuclear safeguards applications. , 2012, , .		3
15	Development of a new multiplying assembly for research, validation, evaluation, and learning. , 2012, , .		0
16	Fast-neutron spectrometry using a <sup>3</sup> He ionization chamber and digital pulse shape analysis. Applied Radiation and Isotopes, 2012, 70, 1457-1463.	1.5	9
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Parametric evaluation of active neutron interrogation for the detection of shielded highly-enriched uranium in the field. , 2011, , .		3
20	Dose profile modeling of Idaho National Laboratory's active neutron interrogation laboratory. Applied Radiation and Isotopes, 2009, 67, 1013-1022.	1.5	13
21	Radiation Fields in the Vicinity of Compact Accelerator Neutron Generators. IEEE Transactions on Nuclear Science, 2008, 55, 614-619.	2.0	1
22	Analysis of a shield design for a DT neutron generator test facility. Applied Radiation and Isotopes, 2007, 65, 1125-1133.	1.5	13