Kevin Hickerson

List of Publications by Year
in descending order

15 papers	411 citations	1163117 8 h-index	996975 15 g-index
15 all docs	15 docs citations	15 times ranked	303 citing authors

#	Article	IF	Citations
1	Measurement of the neutron lifetime using a magneto-gravitational trap and in situ detection. Science, 2018, 360, 627-632.	12.6	117
2	Improved Neutron Lifetime Measurement with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>UCN</mml:mi><mml:mi>Ï„</mml:mi></mml:mrow></mml:math>. Physical Review Letters, 2021, 127, 162501.	7.8	67
3	Performance of the Los Alamos National Laboratory spallation-driven solid-deuterium ultra-cold neutron source. Review of Scientific Instruments, 2013, 84, 013304.	1.3	61
4	AlterBBN v2: A public code for calculating Big-Bang nucleosynthesis constraints in alternative cosmologies. Computer Physics Communications, 2020, 248, 106982.	7.5	45
5	Search for dark matter decay of the free neutron from the UCNA experiment: nâ†’Ï‡+e+eâ˜’. Physical Review C, 2018, 97, .	2.9	28
6	Storage of ultracold neutrons in the magneto-gravitational trap of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>UCN</mml:mi><mml:mi>Ï„</mml:mi></mml:math>experiment. Physical Review C, 2014, 89, .	2.9	27
7	A new method for measuring the neutron lifetime using an in situ neutron detector. Review of Scientific Instruments, 2017, 88, 053508.	1.3	21
8	A multilayer surface detector for ultracold neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 798, 30-35.	1.6	19
9	Upscattering of ultracold neutrons from gases. Physical Review C, 2015, 92, .	2.9	7
10	Monte Carlo simulations of trapped ultracold neutrons in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>UCN</mml:mi><mml:mi>Ï„</mml:mi></mml:mrow></mml:math> experiment. Physical Review C, 2019, 100, .	2.9	6
11	Total cross sections for ultracold neutrons scattered from gases. Physical Review C, 2017, 95, .	2.9	4
12	Status of the UCNÏ„ experiment. EPJ Web of Conferences, 2019, 219, 03004.	0.3	4
13	A compound parabolic concentrator as an ultracold neutron spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 721, 60-64.	1.6	2
14	Projection imaging with ultracold neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1003, 165306.	1.6	2
15	Ultracold neutron properties of the Eljen-299-02D deuterated scintillator. Review of Scientific Instruments, 2021, 92, 023305.	1.3	1