Nathaniel Bowden

List of Publications by Year
in descending order

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70	3,823	331670 21	138484 58
papers	citations	h-index	g-index

71	71	71	4004
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Measurement of material isotopics and atom number ratio with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1323" altimg="si17.svg"><mml:mi>Î±</mml:mi></mml:math>-particle spectroscopy for a NIFFTE fission Time Projection Chamber. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1021, 165864.	1.6	3
2	Joint Determination of Reactor Antineutrino Spectra from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">U</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>235</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> Antineutrino Spectrum by PROSPECT and STEREO. Physical Review Letters, 2022, 128, 081802.	7.8	12
3	Joint Measurement of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">U</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>235</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> Antineutrino Spectrum by PROSPECT and STEREO. Physical Review Letters, 2022, 128, 081802.	7.8	11
4	PROSPECT-II physics opportunities. Journal of Physics G: Nuclear and Particle Physics, 2022, 49, 070501.	3.6	5
5	Measurement of the 239Pu(n,f)/235U(n,f) Cross-Section Ratio with the NIFFTE fission Time Projection Chamber. Nuclear Data Sheets, 2021, 178, 1-40.	2.2	13
6	Neutron-induced fission fragment angular distributions, anisotropy, and linear momentum transfer measured with the NIFFTE fission time projection chamber. Physical Review C, 2020, 102, .	2.9	11
7	Nonfuel antineutrino contributions in the ORNL High Flux Isotope Reactor (HFIR). Physical Review C, 2020, 101, .	2.9	4
8	Colloquium : Neutrino detectors as tools for nuclear security. Reviews of Modern Physics, 2020, 92, .	45.6	42
9	Applying a Template of Expected Uncertainties to Updating 239Pu(n,f) Cross-section Covariances in the Neutron Data Standards Database. Nuclear Data Sheets, 2020, 163, 228-248.	2.2	21
10	PROSPECT â€“ A precision reactor oscillation and spectrum experiment. International Journal of Modern Physics Conference Series, 2020, 50, 2060001.	0.7	0
11	Measurement of muon-induced high-energy neutrons from rock in an underground Gd-doped water detector. Physical Review C, 2020, 102, .	2.9	2
12	Fission fragment angular anisotropy in neutron-induced fission of U235 measured with a time projection chamber. Physical Review C, 2019, 99, .	2.9	20
13	Measurement of the Antineutrino Spectrum from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">U</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>235</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> Fission at HFIR with PROSPECT. Physical Review Letters, 2019, 122, 251801.	7.8	39
14	The radioactive source calibration system of the PROSPECT reactor antineutrino detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 944, 162465.	1.6	3
15	PROSPECT- A Precision Reactor Oscillation and Spectrum Experiment. Journal of Physics: Conference Series, 2019, 1216, 012010.	0.4	0
16	The PROSPECT reactor antineutrino experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 922, 287-309.	1.6	40
17	A low mass optical grid for the PROSPECT reactor antineutrino detector. Journal of Instrumentation, 2019, 14, P04014-P04014.	1.2	10
18	Lithium-loaded liquid scintillator production for the PROSPECT experiment. Journal of Instrumentation, 2019, 14, P03026-P03026.	1.2	16

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19	PROSPECT- A Precision Reactor Oscillation and Spectrum Experiment. , 2019, , .		0
20	Measurement of the normalized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">U</mml:mi><mml:mprescripts /><mml:none /><mml:mn>238</mml:mn></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mo>,</mml:mo><mml:mi>f</mml mathvariant="normal">U</mml:mi><mml:mprescripts /><mml:none		

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37	First test of Lorentz violation with a reactor-based antineutrino experiment. Physical Review D, 2012, 86, .	4.7	41
38	Reactor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mover accent="true"><mml:mi>Î½</mml:mi><mml:mo>Â¯</mml:mo></mml:mover><mml:mi>e</mml:mi></mml:msub></mml:math>disappea in the Double Chooz experiment. Physical Review D, 2012, 86, .	4.7	275
39	A note on neutron capture correlation signals, backgrounds, and efficiencies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 693, 209-214.	1.6	11
40	Neutron Time Projection Chamber for Nuclear Security and Verification Applications. , 2011, , .		1
41	Neutron detection and identification using ZnS:Ag/6LiF in segmented antineutrino detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 412-416.	1.6	15
42	Large-scale gadolinium-doped water Cherenkov detector for nonproliferation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 654, 377-382.	1.6	14
43	Investigation of large LGB detectors for antineutrino detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 660, 77-82.	1.6	14
44	Reactor monitoring using antineutrino detectors. Nuclear Physics, Section B, Proceedings Supplements, 2011, 217, 134-136.	0.4	2
45	Advances toward a transportable antineutrino detector system for reactor monitoring and safeguards. , 2011, , .		0
46	Results from a Search for Light-Mass Dark Matter with a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-Type Point Contact Germanium Detector. Physical Review Letters, 2011, 106, 131301.	7.8	657
47	Directional fast neutron detection using a time projection chamber. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 153-161.	1.6	16
48	Integrated readout of organic scintillator and ZnS:Ag/⁶LiF for segmented antineutrino detectors. , 2010, , .		2
49	Advances towards readily deployable antineutrino detectors for reactor monitoring and safeguards. , 2009, , .		2
50	Neutron detection with water Cerenkov based detectors. , 2009, , .		0
51	Observation of neutrons with a Gadolinium doped water Cherenkov detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 607, 616-619.	1.6	29
52	Improved fast neutron spectroscopy via detector segmentation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 609, 32-37.	1.6	6
53	Directional Neutron Detection Using a Time Projection Chamber. IEEE Transactions on Nuclear Science, 2009, 56, 1218-1223.	2.0	11
54	Observation of the isotopic evolution of pressurized water reactor fuel using an antineutrino detector. Journal of Applied Physics, 2009, 105, .	2.5	41

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55	Monitoring the thermal power of nuclear reactors with a prototype cubic meter antineutrino detector. Journal of Applied Physics, 2008, 103, .	2.5	46
56	Special Nuclear Material detection with a water Cherenkov based detector. , 2008, , .		1
57	Background radiation studies for future, above ground antineutrino detectors. Journal of Physics: Conference Series, 2008, 136, 042003.	0.4	0
58	The deployment of three prototype detectors for reactor monitoring and safeguards. Journal of Physics: Conference Series, 2008, 136, 042001.	0.4	0
59	Reactor monitoring and safeguards using antineutrino detectors. Journal of Physics: Conference Series, 2008, 136, 022008.	0.4	14
60	Pixellated NaI (Tl) Detector for Light Yield Nonproportionality Investigation. IEEE Transactions on Nuclear Science, 2007, 54, 1830-1835.	2.0	2
61	Experimental results from an antineutrino detector for cooperative monitoring of nuclear reactors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 572, 985-998.	1.6	66
62	Angra dos Reis reactor neutrino oscillation experiment. Brazilian Journal of Physics, 2006, 36, 1118-1123.	1.4	11
63	Observations of cold antihydrogen. Nuclear Instruments & Methods in Physics Research B, 2004, 214, 22-30.	1.4	5
64	Aperture method to determine the density and geometry ofÂantiparticle plasmas. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 595, 60-67.	4.1	10
65	Driven Production of Cold Antihydrogen and the First Measured Distribution of Antihydrogen States. Physical Review Letters, 2002, 89, 233401.	7.8	191
66	Background-Free Observation of Cold Antihydrogen with Field-Ionization Analysis of Its States. Physical Review Letters, 2002, 89, 213401.	7.8	515
67	Stacking of cold antiprotons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 548, 140-145.	4.1	53
68	COLD ANTIHYDROGEN AND CPT. , 2002, , .		0
69	First positron cooling of antiprotons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 507, 1-6.	4.1	126
70	Energy of the superallowed Î² decay of38Km. Physical Review C, 1998, 58, 821-825.	2.9	16