

# Daniel Abriola

## List of Publications by Year in descending order

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93  
papers

2,212  
citations

218677

26  
h-index

243625

44  
g-index

96  
all docs

96  
docs citations

96  
times ranked

1479  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nuclear Data Sheets for A = 94. Nuclear Data Sheets, 2006, 107, 2423-2578.	2.2	118
2	A decommissioned LHC model magnet as an axion telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 425, 480-487.	1.6	116
3	Nuclear Data Sheets for A = 96. Nuclear Data Sheets, 2008, 109, 2501-2655.	2.2	114
4	Fusion, reaction and break-up cross sections of weakly bound projectiles on $^{64}\text{Zn}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 601, 20-26.	4.1	110
5	Experimental Search for Solar Axions via Coherent Primakoff Conversion in a Germanium Spectrometer. Physical Review Letters, 1998, 81, 5068-5071.	7.8	85
6	Absence of the threshold anomaly in the elastic scattering of the weakly bound projectile $^7\text{Li}$ on $^{27}\text{Al}$ . Physical Review C, 2006, 73, .	2.9	73
7	Threshold anomaly with weakly bound projectiles: Elastic scattering of $^9\text{Be} + ^{27}\text{Al}$ . Physical Review C, 2004, 70, .	2.9	70
8	Breakup threshold anomaly in the elastic scattering of $^6\text{Li}$ on $^{27}\text{Al}$ . Physical Review C, 2007, 75, .	2.9	70
9	Nuclear Data Sheets for A = 72. Nuclear Data Sheets, 2010, 111, 1-140.	2.2	70
10	Fusion of stable weakly bound nuclei with $^{27}\text{Al}$ and $^{64}\text{Zn}$ . Physical Review C, 2002, 66, .	2.9	69
11	No evidence of break-up effects on the fusion of $^9\text{Be}$ with medium-light nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 534, 45-51.	4.1	60
12	$^7\text{Li}$ breakup polarization potential at near barrier energies. Nuclear Physics A, 2007, 791, 24-35.	1.5	57
13	Fusion of $^7\text{Li}$ at sub-barrier energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 176, 322-326.	4.1	56
14	Subbarrier fusion of $^{14}\text{N} + ^{149}\text{Sm}$ . Physical Review C, 1989, 39, 516-523.	2.9	54
15	Observation of mean-spin barrier bump in sub-barrier fusion of $^{28}\text{Si}$ with $^{154}\text{Sm}$ . Physical Review Letters, 1990, 65, 3100-3103.	7.8	52
16	Nuclear Data Sheets for A = 84. Nuclear Data Sheets, 2009, 110, 2815-2944.	2.2	51
17	Fusion of $^{32}\text{S} + ^{154}\text{Sm}$ at sub-barrier energies. Physical Review C, 1994, 49, 245-249.	2.9	48
18	Nuclear Data Sheets for A = 211. Nuclear Data Sheets, 2013, 114, 661-749.	2.2	42

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19	Band structure in $^{180}\text{Re}$ and the different coupling schemes in a deformed doubly odd nucleus. <i>Physical Review C</i> , 1987, 36, 2309-2321.	2.9	40
20	Development of a reference database for Ion Beam Analysis and future perspectives. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2011, 269, 2972-2978.	1.4	37
21	Cold dark matter identification: Diurnal modulation reexamined. <i>Physical Review D</i> , 1997, 55, 7350-7355.	4.7	34
22	Improving systematic predictions of $\langle \sigma \rangle$ for $^{12}\text{C} + ^{144}\text{Sm}$ -delayed neutron emission probabilities. <i>Physical Review C</i> , 2012, 86, .	2.9	32
23	Energy dependence of the optical potential for the $^{16}\text{O} + ^{144}\text{Sm}$ system near the Coulomb barrier. <i>Physical Review C</i> , 1989, 39, 546-552.	2.9	31
24	Fusion cross sections in systems leading to $^{170}\text{O}$ at near-barrier energies. <i>Physical Review C</i> , 1995, 51, 1336-1344.	2.9	31
25	Study of the Threshold Anomaly in the Scattering of Li Isotopes on $^{27}\text{Al}$ . <i>Nuclear Physics A</i> , 2007, 787, 484-490.	1.5	29
26	Search for an annual modulation of dark-matter signals with a germanium spectrometer at the Sierra Grande Laboratory. <i>Astroparticle Physics</i> , 1999, 10, 133-139.	4.3	26
27	$^{10}\text{Be} + ^{7}\text{Li} \rightarrow ^{10}\text{B} + ^{7}\text{Be}$ charge-exchange reaction. <i>Physical Review C</i> , 1988, 38, 2124-2133.	2.9	25
28	Fusion and elastic scattering for the $^{12}\text{C} + ^{144}\text{Sm}$ system at energies near to the Coulomb barrier. <i>Physical Review C</i> , 1992, 46, 244-249.	2.9	24
29	Average angular momentum in compound nucleus reactions deduced from isomer ratio measurements. <i>Physical Review C</i> , 1997, 55, 766-774.	2.9	23
30	Proton elastic scattering differential cross-sections for $^{12}\text{C}$ . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2011, 269, 2011-2016.	1.4	23
31	$^{9}\text{Be} + ^{120}\text{Sn}$ scattering at near-barrier energies within a four-body model. <i>Physical Review C</i> , 2018, 97, .	2.9	23
32	Hexadecapole deformation effects in subbarrier fusion reactions. <i>Physical Review C</i> , 1991, 43, 2303-2306.	2.9	22
33	Measurements of Hf diffusion in $\hat{\text{I}}\pm\text{-Ti}$ by HIRBS. <i>Journal of Nuclear Materials</i> , 1993, 207, 221-227.	2.7	22
34	Barrier distributions derived from quasielastic excitation functions for the $^{35}\text{Cl} + ^{105,106,110}\text{Pd}$ systems. <i>Physical Review C</i> , 2002, 65, .	2.9	22
35	Nuclear Data Sheets for $A = 215$ . <i>Nuclear Data Sheets</i> , 2013, 114, 2023-2078.	2.2	22
36	Evaluation of Beta-Delayed Neutron Emission Probabilities and Half-Lives for $Z = 28$ . <i>Nuclear Data Sheets</i> , 2015, 128, 131-184.	2.2	22

#	ARTICLE	IF	CITATIONS
37	Elastic and inelastic scattering for the $^{32}\text{S}+^{110}\text{Pd}$ system. Nuclear Physics, Section B, Proceedings Supplements, 1999, 72, 176-182.	2.9	20
38	Compilation and Evaluation of Beta-Delayed Neutron Emission Probabilities and Half-Lives for $Z > 28$ Precursors. Nuclear Data Sheets, 2020, 168, 1-116.	2.2	19
39	Evaluation of the $^{12}\text{C}(d, p)^{13}\text{C}$ reaction cross-section for energies and detection angles suitable for nuclear reaction analysis. Nuclear Instruments & Methods in Physics Research B, 2013, 301, 41-46.	1.4	17
40	Solar axion experiments using coherent primakoff conversion in single crystals. Nuclear Physics, Section B, Proceedings Supplements, 1999, 72, 176-182.	0.4	16
41	Barrier distribution for the $^{32}\text{S}+^{110}\text{Pd}$ system derived from the quasielastic scattering excitation function. Physical Review C, 2000, 61, .	2.9	16
42	Elastic and inelastic scattering for the $^{32}\text{S}+^{110}\text{Pd}$ system at near-barrier energies. Physical Review C, 2017, 96, .	2.9	15
43	Direct $\beta^+$ transitions in $^{12}\text{C}+^{12}\text{C}$ . Physical Review C, 1981, 24, 2374-2377.	2.9	14
44	In-beam study of $^{78}\text{Br}$ . Nuclear Physics A, 1982, 376, 131-148.	1.5	14
45	Energy dependence of the optical potential of the weakly bound $^9\text{Be}$ projectile on the $^{197}\text{Au}$ target. Nuclear Physics A, 2020, 1000, 121789.	1.5	14
46	Determination of diffusion rates in $\hat{\nu}\text{-Ti}$ by Heavy Ion Rutherford Backscattering. Journal of Nuclear Materials, 1992, 186, 206-208.	2.7	13
47	Searching for cold dark matter in the Southern Hemisphere. The experiment at Sierra Grande. Astroparticle Physics, 1996, 6, 63-69.	4.3	13
48	Experimental search for solar axions. Nuclear Physics, Section B, Proceedings Supplements, 1999, 70, 59-63.	0.4	12
49	Diffusion of Ta in $\hat{\nu}\text{-Ti}$ . Applied Physics A: Materials Science and Processing, 2003, 76, 247-250.	2.3	12
50	Investigation of the fusion process for the $^{12}\text{C}+^{105,106}\text{Pd}$ systems. Physical Review C, 2020, 101, .	2.9	12
51	Barrier distributions derived from quasielastic excitation functions for the $^{12,13}\text{C}+^{105,106}\text{Pd}$ systems. Physical Review C, 2000, 62, .	2.9	10
52	Investigation of the reaction mechanisms for the $^{12}\text{C}+^{105,106}\text{Pd}$ systems. Physical Review C, 2000, 62, .	2.9	10
53	Examination of nuclear measurement conditions in cold fusion experiments. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1989, 265, 355-360.	0.1	9
54	Absence of anomalous entrance channel effects in sub-barrier heavy ion fusion. Physical Review C, 1994, 49, R1235-R1238.	2.9	9

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55	Orbiting features in the strongly damped binary decay of the $^{28}\text{Si}+^{16}\text{O}$ system. <i>Physical Review C</i> , 1996, 53, 2926-2932.	2.9	9
56	Sub-barrier fusion of $^{16}\text{O}+^{144}\text{Nd}$ . <i>Physical Review C</i> , 1993, 47, 2970-2973.	2.9	8
57	Elastic scattering of $^7\text{Li}+^{27}\text{Al}$ at several angles in the $7\text{--}11\text{MeV}$ energy range. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 1793-1796.	1.4	8
58	One-neutron transfer, complete fusion, and incomplete fusion from the $^9\text{Be}+^{197}\text{Au}$ system. <i>Physical Review C</i> , 2021, 104, .	2.9	8
59	Search for transfer-induced $^{12}\text{C}+^{12}\text{C}$ resonances in the $^{12}\text{C}(^{16}\text{O},\alpha)^{24}\text{Mg}$ reaction. <i>Physical Review C</i> , 1983, 27, 2649-2655.	2.9	7
60	One neutron pickup reactions in the $^{32}\text{S}+^{144}\text{Sm}$ and $^{32}\text{S}+^{166}\text{Er}$ systems at energies close to the Coulomb barrier. <i>Physical Review C</i> , 1993, 48, 2840-2844.	2.9	7
61	One and two charge stripping reactions in the $^{12}\text{C}+^{197}\text{Au}$ and $^{16}\text{O}+^{197}\text{Au}$ systems at large distances. <i>Physical Review C</i> , 1996, 54, 1282-1290.	2.9	7
62	Breakup threshold anomaly in the elastic scattering of the $^9\text{Be} + ^{80}\text{Se}$ system. <i>Nuclear Physics A</i> , 2018, 979, 87-101.	1.5	7
63	$^{236}\text{U}$ identification in the new AMS beamline at the TANDAR accelerator. <i>Journal of Physics: Conference Series</i> , 2019, 1291, 012001.	0.4	7
64	Search for a valence-neutron-induced enhancement in the sub-barrier fusion of $^{32}\text{S}+^{12,13}\text{C}$ . <i>Physical Review C</i> , 1990, 41, 2654-2657.	2.9	6
65	Sub- and near-barrier reactions for $^{12}\text{C}+^{108,110}\text{Pd}$ and $^7\text{Li}+^{113,115}\text{In}$ . <i>Physical Review C</i> , 1996, 53, 1301-1308.	2.9	6
66	Spurious ionic charge states in a tandem accelerator. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2004, 223-224, 242-246.	1.4	6
67	Information Management Tools for Evaluated Nuclear Structure Data File (ENSDF) Interrogation and Dissemination. <i>Journal of the Korean Physical Society</i> , 2011, 59, 1322-1324.	0.7	6
68	High-spin states in $^{78}\text{Br}$ . <i>Journal of Physics G: Nuclear Physics</i> , 1980, 6, L89-L93.	0.8	5
69	Scattering, fusion and transfer reactions in at energies close to the Coulomb barrier. <i>Nuclear Physics A</i> , 1987, 471, 587-603.	1.5	5
70	Improved beam-energy calibration technique for heavy-ion accelerators. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1989, 42, 389-392.	1.4	4
71	Looking for daily modulation effects of WIMPs in the Southern Hemisphere. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1996, 48, 56-59.	0.4	4
72	First Compilation and Evaluation of Beta-Delayed Neutron Emission Probabilities and Associated Half-Lives for A $\approx$ 72 Nuclei. <i>Nuclear Data Sheets</i> , 2014, 120, 66-69.	2.2	4

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73	Bootstrap method for constructing covariance matrices of optical-model parameters in the study of the threshold anomaly. EPJ Web of Conferences, 2017, 146, 02050.	0.3	4
74	The AMS program at the TANDAR accelerator. Nuclear Instruments & Methods in Physics Research B, 1997, 123, 39-42.	1.4	3
75	Search for experimental evidence of chaotic behavior in nuclear scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 447, 41-45.	4.1	3
76	The AMS system and research program at the TANDAR laboratory. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 91-94.	1.4	3
77	Uncertainties of optical-model parameters for the study of the threshold anomaly. Journal of Physics: Conference Series, 2015, 630, 012021.	0.4	3
78	Influence of the break-up on the fusion and scattering processes. Brazilian Journal of Physics, 2003, 33, 323-327.	1.4	3
79	Developments of AMS at the TANDAR accelerator. Nuclear Instruments & Methods in Physics Research B, 1996, 117, 156-160.	1.4	2
80	Recent activities for $\hat{I}^2$ -decay half-lives and $\hat{I}^2$ -delayed neutron emission of very neutron-rich isotopes. , 2014, , .		2
81	Elastic scattering with weakly bound projectiles. AIP Conference Proceedings, 2007, , .	0.4	1
82	A New Approach to Estimating the Probability for $\hat{I}^2$ -delayed Neutron Emission. Nuclear Data Sheets, 2014, 120, 62-65.	2.2	1
83	AMS measurement of $^{10}\text{Be}$ concentrations in marine sediments from Chile Trench at the TANDAR laboratory. Nuclear Instruments & Methods in Physics Research B, 2017, 395, 1-4.	1.4	1
84	Measurement of inelastic-scattering cross sections in the $^{16}\text{O}+^{28}\text{Si}$ system to discriminate regular and chaotic regimes. Brazilian Journal of Physics, 2004, 34, 885-888.	1.4	1
85	Measurements and Evaluation of Differential Cross-sections for In Beam Analysis. Journal of the Korean Physical Society, 2011, 59, 2010-2013.	0.7	1
86	Search for direct $\hat{I}^3$ -transitions in $^{12}\text{C}+^{12}\text{C}$ . , 1982, , 290-294.		0
87	Near-barrier transfer in $^{16}\text{O}+^{144}\text{Sm}$ . Zeitschrift für Physik A, Atomic Nuclei, 1988, 331, 451-455.	0.3	0
88	The Coulomb excitation backscattering spectrometry technique for the study of the surfaces of materials. Nuclear Instruments & Methods in Physics Research B, 1990, 47, 439-442.	1.4	0
89	Cold dark matter identification: Diurnal modulation reexamined. Nuclear Physics, Section B, Proceedings Supplements, 1999, 70, 114-116.	0.4	0
90	Development of a Monte Carlo simulation program for elastic recoil spectrometry. AIP Conference Proceedings, 2007, , .	0.4	0

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91	Elastic Scattering of ${}^7\text{Li}+{}^{27}\text{Al}$ at Backward Angles in the 7–11 MeV Energy Range for Application in RBS. , 2010, , .		0
92	Development of a Genetic Algorithm for the search of Optical Model parameters. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2984-2989.	1.4	0
93	Nuclear deformation effects in sub-barrier fusion of ${}^{16}\text{O}+{}^{147,149}\text{Sm}$ . , 1988, , 46-50.		0