

# Jerry A Nolen

## List of Publications by Year in descending order

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81  
papers

1,523  
citations

304743

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docs citations

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times ranked

999  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of 45 New Neutron-Rich Isotopes Produced by In-Flight Fission of a $^{238}\text{U}$ Beam at 345 MeV/nucleon. Journal of the Physical Society of Japan, 2010, 79, 073201.	1.6	160
2	Fusion Cross Sections for the Proton Drip Line Nucleus $^{17}\text{F}$ at Energies below the Coulomb Barrier. Physical Review Letters, 1998, 81, 3341-3344.	7.8	126
3	Identification of New Isotopes $^{125}\text{Pd}$ and $^{126}\text{Pd}$ Produced by In-Flight Fission of 345 MeV/nucleon $^{238}\text{U}$ : First Results from the RIKEN RI Beam Factory. Journal of the Physical Society of Japan, 2008, 77, 083201.	1.6	104
4	Reconstructive correction of aberrations in nuclear particle spectrographs. Physical Review C, 1993, 47, 537-544.	2.9	79
5	Study of the $^{56}\text{Ni}(d,p)^{57}\text{Ni}$ Reaction and the Astrophysical $^{56}\text{Ni}(p,\hat{1}^3)^{57}\text{Cu}$ Reaction Rate. Physical Review Letters, 1998, 80, 676-679.	7.8	78
6	Production of radioactive ion beams using the in-flight technique. Review of Scientific Instruments, 2000, 71, 380-387.	1.3	76
7	Stellar Reactions with Short-Lived Nuclei: $^{17}\text{F}(p,\hat{1}^3)^{14}\text{O}$ . Physical Review Letters, 1999, 82, 3964-3967.	7.8	44
8	Electron linear accelerator production and purification of scandium-47 from titanium dioxide targets. Applied Radiation and Isotopes, 2018, 131, 77-82.	1.5	43
9	The $^{44}\text{Ti}(\hat{1}^{\pm},p)$ Reaction and its Implication on the $^{44}\text{Ti}$ Yield in Supernovae. Physical Review Letters, 2000, 84, 1651-1654.	7.8	42
10	Measuring nuclear excitation energies and Q-values with a cyclotron-magnetic spectrograph system. Nuclear Instruments & Methods, 1974, 115, 189-196.	1.2	40
11	Lifetime measurements of neutron-rich light isotopes $^{14}\text{Be}$ and $^{17}\text{C}$ . Physical Review Letters, 1986, 56, 34-37.	7.8	39
12	Study of the $^{18}\text{F}(p,\hat{1}^{\pm})^{15}\text{O}$ reaction at astrophysical energies using a $^{18}\text{F}$ beam. Physical Review C, 1995, 52, R460-R463.	2.9	39
13	Astrophysical reaction rate for the $^{18}\text{F}(p,\hat{1}^{\pm})^{15}\text{O}$ reaction. Physical Review C, 1996, 53, 1950-1954.	2.9	38
14	Strong Coulomb effects on pions produced in heavy ion collisions. Physical Review C, 1982, 25, 1499-1517.	2.9	36
15	$^{194,196,198}\text{Pt}(p,p\hat{1}^{\pm})$ reactions at 35 MeV. Physical Review C, 1981, 23, 1414-1433.	2.9	35
16	$(^{12}\text{C},^{12}\text{B})$ and $(^{12}\text{C},^{12}\text{N})$ reactions at $E/A=70$ MeV as spin probes: Calibration and application to $1^+$ states in $^{56}\text{Mn}$ . Physical Review C, 1991, 44, 398-414.	2.9	35
17	Extraction of 3D field maps of magnetic multipoles from 2D surface measurements with applications to the optics calculations of the large-acceptance superconducting fragment separator BigRIPS. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 798-809.	1.4	30
18	Liquid-lithium cooling for 100-kW ISOL and fragmentation targets. Nuclear Physics A, 2002, 701, 312-322.	1.5	29

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19	A high resolution study of $^{26}\text{Al}$ via the (p, d) reaction. Nuclear Physics A, 1976, 263, 293-314.	1.5	25
20	Simultaneous Acceleration of Multiply Charged Ions through a Superconducting Linac. Physical Review Letters, 2001, 86, 2798-2801.	7.8	25
21	Search for the exotic nucleus $^{10}\text{He}$ . Physical Review C, 1988, 37, 2220-2223.	2.9	24
22	A study of $^{206}\text{Pb}$ by inelastic scattering of 35 MeV protons. Nuclear Physics A, 1983, 407, 163-192.	1.5	22
23	The Super Separator Spectrometer (S3) for SPIRAL2 stable beams. Nuclear Physics A, 2010, 834, 747c-750c.	1.5	22
24	A study of the $^{54}\text{Fe}(p, d)^{53}\text{Fe}$ reaction at 40 MeV. Nuclear Physics A, 1979, 313, 141-156.	1.5	20
25	Exploring the $^{18}\text{F}(p, \hat{1}^3)^{19}\text{Ne}$ gateway to the formation of heavy elements in hot stars. Physical Review C, 1997, 55, R566-R569.	2.9	18
26	Imaging and dosimetric characteristics of $^{67}\text{Cu}$ . Physics in Medicine and Biology, 2021, 66, 035002.	3.0	17
27	A 20 kw beam-on-target test of a high-power liquid lithium target for RIA. Nuclear Physics A, 2004, 746, 161-165.	1.5	14
28	Charge Strippers of Heavy Ions for High Intensity Accelerators. Reviews of Accelerator Science and Technology, 2013, 06, 221-236.	0.5	13
29	Accelerator Production of Scandium Radioisotopes: Sc-43, Sc-44, and Sc-47. Current Radiopharmaceuticals, 2021, 14, 359-373.	0.8	13
30	Overview of the KoRIA Facility for Rare Isotope Beams. Few-Body Systems, 2013, 54, 197-204.	1.5	12
31	Characterization studies of prototype ISOL targets for the RIA. Nuclear Instruments & Methods in Physics Research B, 2005, 241, 986-990.	1.4	11
32	SUPER SEPARATOR SPECTROMETER FOR THE LINAC HEAVY ION BEAMS. International Journal of Modern Physics E, 2009, 18, 2160-2168.	1.0	11
33	Experimental and theoretical study of line shapes in $^{13}\text{C}(\hat{1}^{\pm}, \hat{1}^{\pm}\hat{2})$ inelastic scattering to resonant states. Nuclear Physics A, 1980, 343, 133-147.	1.5	10
34	Mass of $^{39}\text{Sc}$ via the $^{40}\text{Ca}(^7\text{Li}, ^8\text{He})$ reaction. Physical Review C, 1988, 38, 737-740.	2.9	10
35	Fragment separator momentum compression schemes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 645, 182-186.	1.6	10
36	Pions produced near the center-of-mass velocity in heavy-ion collisions. Physical Review C, 1982, 25, 1102-1104.	2.9	9

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37	Measurement of the beta decay half-life of $^{17}\text{B}$ . <i>Physical Review C</i> , 1988, 37, 1314-1317.	2.9	9
38	Low-energy stripping of $\text{Kr}^+$ , $\text{Xe}^+$ , and $\text{Pb}^+$ beams in helium and nitrogen. <i>Review of Scientific Instruments</i> , 1997, 68, 2322-2327.	1.3	9
39	A parallel 3D Poisson solver for space charge simulation in cylindrical coordinates. <i>Computer Physics Communications</i> , 2008, 178, 290-300.	7.5	9
40	Development of a liquid lithium thin film for use as a heavy ion beam stripper. <i>Journal of Instrumentation</i> , 2009, 4, P04005-P04005.	1.2	9
41	Radioactive beam facilities of North America. <i>Nuclear Physics A</i> , 2004, 746, 9-16.	1.5	8
42	$\text{Ar}^{40}(\text{p},\text{d})\text{Ar}^{39}$ reaction at $E_p=35\text{MeV}$ . <i>Physical Review C</i> , 1977, 16, 1357-1362.	2.9	7
43	Refractory nanoporous materials fabricated using tungsten atomic layer deposition on silica aerogels. <i>Applied Surface Science</i> , 2012, 258, 6472-6478.	6.1	7
44	Construction and testing of a $\pm 16^\circ$ superconducting beamline magnet. <i>IEEE Transactions on Magnetics</i> , 1987, 23, 524-527.	2.1	6
45	An adjustable permanent magnet focussing system for heavy ion beams. <i>IEEE Transactions on Magnetics</i> , 1988, 24, 990-993.	2.1	6
46	Fusion-evaporation studies with the Super Separator spectrometer ( $S^3$ ) at Spiral2. <i>EPL Web of Conferences</i> , 2011, 17, 14004.	0.3	6
47	Proton beam-on-liquid lithium stripper film experiment. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 305, 843-849.	1.5	6
48	High-order maps with acceleration for optimization of electrostatic and radio-frequency ion-optical elements. <i>Review of Scientific Instruments</i> , 2002, 73, 3174-3180.	1.3	5
49	Heavy-ion beams required for the RIA accelerator. <i>Review of Scientific Instruments</i> , 2004, 75, 1427-1430.	1.3	5
50	Uranium carbide fission target R&D for RIA - an update. <i>Nuclear Physics A</i> , 2004, 746, 425-428.	1.5	5
51	Nickel-backed Bi targets for the production of $^{211}\text{At}$ . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 305, 943-946.	1.5	5
52	Heavy ion linear accelerator for radiation damage studies of materials. <i>Review of Scientific Instruments</i> , 2017, 88, 033302.	1.3	5
53	Side-reaction products identified for photo-nuclear production of $^{99}\text{Mo}$ . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 326, 543-553.	1.5	5
54	A simple ion source for target preparation via ion beam sputtering. <i>Nuclear Instruments &amp; Methods</i> , 1978, 150, 581-583.	1.2	4

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55	Commissioning experience with the largest superconducting cyclotron, the NSCL K800. Nuclear Instruments & Methods in Physics Research B, 1989, 40-41, 870-873.	1.4	4
56	Coulomb explosion of 173-MeVHeH <sup>+</sup> ions traversing carbon foils. Physical Review A, 1997, 55, 2090-2096.	2.5	4
57	Plans for an Advanced Exotic Beam facility in the U.S.. Nuclear Physics A, 2007, 787, 84-93.	1.5	4
58	Scalable Direct Vlasov Solver with Discontinuous Galerkin Method on Unstructured Mesh. SIAM Journal of Scientific Computing, 2010, 32, 3476-3494.	2.8	4
59	Fast resolution optimization in a magnetic spectrograph. Nuclear Instruments & Methods, 1978, 156, 591-593.	1.2	3
60	A 1.6 GeV/c superconducting switching magnet. IEEE Transactions on Magnetics, 1985, 21, 990-992.	2.1	3
61	The superconducting beam transport system at the NSCL. IEEE Transactions on Magnetics, 1991, 27, 1951-1953.	2.1	3
62	Construction of a large superconducting spectrometer dipole magnet with negative curvature. IEEE Transactions on Applied Superconductivity, 1993, 3, 114-117.	1.7	3
63	The ATLAS multi-user upgrade and potential applications. Journal of Instrumentation, 2017, 12, T12002-T12002.	1.2	3
64	An easily prepared scintillator for viewing accelerator beam spots. Nuclear Instruments & Methods, 1978, 156, 595-596.	1.2	2
65	Lifetime Improvements of Heavy Ion Source Cathodes. IEEE Transactions on Nuclear Science, 1979, 26, 3716-3717.	2.0	2
66	Effects of insulation on potted superconducting coils. IEEE Transactions on Magnetics, 1989, 25, 1536-1537.	2.1	2
67	Magnetic structure for a superconducting variable frequency electron cyclotron resonance ion source. IEEE Transactions on Magnetics, 1989, 25, 1671-1675.	2.1	2
68	Direct Vlasov Solvers with High-order Spectral Element Method. Communications in Computational Physics, 2010, 8, 159-184.	1.7	2
69	Characteristics and Performance of the System Developed for Magnetic Mapping of the NSCL Superconducting K800 Cyclotron Magnet. IEEE Transactions on Nuclear Science, 1985, 32, 3734-3736.	2.0	1
70	Review of work related to ion sources and targets for radioactive beams at Argonne. Review of Scientific Instruments, 1996, 67, 935-937.	1.3	1
71	Status of RNB facilities in North America. , 1998, , .		1
72	The use of electron beam in RIA R&D. Nuclear Physics A, 2004, 746, 453-456.	1.5	1

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73	Simulation of effusion from targets of tilted foils. Nuclear Physics A, 2004, 746, 437-440.	1.5	1
74	Superconducting linac beam dynamics with high-order maps for RF resonators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 519, 388-395.	1.6	1
75	CONCEPTUAL DESIGN OF A SUPERCONDUCTING QUADRUPOLE WITH ELLIPTICAL ACCEPTANCE AND TUNABLE HIGHER ORDER MULTIPOLES. International Journal of Modern Physics A, 2009, 24, 923-940.	1.5	1
76	Beam Emittance Measurements with a Dispersion-Matched Magnetic Spectrograph. IEEE Transactions on Nuclear Science, 1979, 26, 2334-2336.	2.0	0
77	Design of the NSCL Coupling Line. IEEE Transactions on Nuclear Science, 1983, 30, 2806-2808.	2.0	0
78	Neon gas target for the production of radioactive fluorine beams. Review of Scientific Instruments, 1998, 69, 323-324.	1.3	0
79	The influence of secondary reactions in the wedge of a magnetic separator at RIA. Nuclear Physics A, 2004, 746, 403-406.	1.5	0
80	Development of a low charge-to-mass ratio injector for a RIB linac. Nuclear Physics A, 2004, 746, 445-448.	1.5	0
81	Charge Strippers of Heavy Ions for High Intensity Accelerators. , 2014, , 221-236.		0