Jerry A Nolen

List of Publications by Year
in descending order

81 papers	1,523 citations	304743 22 h-index	330143 37 g-index
83 all docs	83 docs citations	83 times ranked	999 citing authors

#	Article	IF	Citations
1	Accelerator Production of Scandium Radioisotopes: Sc-43, Sc-44, and Sc-47. Current Radiopharmaceuticals, 2021, 14, 359-373.	0.8	13
2	Imaging and dosimetric characteristics of ⁶⁷ Cu. Physics in Medicine and Biology, 2021, 66, 035002.	3.0	17
3	Side-reaction products identified for photo-nuclear production of99Mo. Journal of Radioanalytical and Nuclear Chemistry, 2020, 326, 543-553.	1.5	5
4	Electron linear accelerator production and purification of scandium-47 from titanium dioxide targets. Applied Radiation and Isotopes, 2018, 131, 77-82.	1.5	43
5	Heavy ion linear accelerator for radiation damage studies of materials. Review of Scientific Instruments, 2017, 88, 033302.	1.3	5
6	The ATLAS multi-user upgrade and potential applications. Journal of Instrumentation, 2017, 12, T12002-T12002.	1.2	3
7	Proton beam-on-liquid lithium stripper film experiment. Journal of Radioanalytical and Nuclear Chemistry, 2015, 305, 843-849.	1.5	6
8	Nickel-backed Bi targets for the production of 211At. Journal of Radioanalytical and Nuclear Chemistry, 2015, 305, 943-946.	1.5	5
9	Charge Strippers of Heavy Ions for High Intensity Accelerators. , 2014, , 221-236.		0
10	Overview of the KoRIA Facility for Rare Isotope Beams. Few-Body Systems, 2013, 54, 197-204.	1.5	12
11	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
12	Charge Strippers of Heavy Ions for High Intensity Accelerators. Reviews of Accelerator Science and Technology, 2013, 06, 221-236.	0.5	13
13	Refractory nanoporous materials fabricated using tungsten atomic layer deposition on silica aerogels. Applied Surface Science, 2012, 258, 6472-6478.	6.1	7
14	Fusion-evaporation studies with the Super Separator spectrometer (S³) at Spiral2. EPJ Web of Conferences, 2011, 17, 14004.	0.3	6
15	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
16	Identification of 45 New Neutron-Rich Isotopes Produced by In-Flight Fission of a ²³⁸U Beam at 345 MeV/nucleon. Journal of the Physical Society of Japan, 2010, 79, 073201.	1.6	160
17	The Super Separator Spectrometer (S3) for SPIRAL2 stable beams. Nuclear Physics A, 2010, 834, 747c-750c.	1.5	22
18	Scalable Direct Vlasov Solver with Discontinuous Galerkin Method on Unstructured Mesh. SIAM Journal of Scientific Computing, 2010, 32, 3476-3494.	2.8	4

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19	Direct Vlasov Solvers with High-order Spectral Element Method. Communications in Computational Physics, 2010, 8, 159-184.	1.7	2
20	Development of a liquid lithium thin film for use as a heavy ion beam stripper. Journal of Instrumentation, 2009, 4, P04005-P04005.	1.2	9
21	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
22	SUPER SEPARATOR SPECTROMETER FOR THE LINAG HEAVY ION BEAMS. International Journal of Modern Physics E, 2009, 18, 2160-2168.	1.0	11
23	A parallel 3D Poisson solver for space charge simulation in cylindrical coordinates. Computer Physics Communications, 2008, 178, 290-300.	7.5	9
24	Identification of New Isotopes 125Pd and 126Pd Produced by In-Flight Fission of 345 MeV/nucleon 238U: First Results from the RIKEN RI Beam Factory. Journal of the Physical Society of Japan, 2008, 77, 083201.	1.6	104
25	Plans for an Advanced Exotic Beam facility in the U.S.. Nuclear Physics A, 2007, 787, 84-93.	1.5	4
26	Characterization studies of prototype ISOL targets for the RIA. Nuclear Instruments & Methods in Physics Research B, 2005, 241, 986-990.	1.4	11
27	Heavy-ion beams required for the RIA accelerator. Review of Scientific Instruments, 2004, 75, 1427-1430.	1.3	5
28	Radioactive beam facilities of North America. Nuclear Physics A, 2004, 746, 9-16.	1.5	8
29	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
30	Uranium carbide fission target R&D for RIA - an update. Nuclear Physics A, 2004, 746, 425-428.	1.5	5
31	The use of electron beam in RIA R&D. Nuclear Physics A, 2004, 746, 453-456.	1.5	1
32	The influence of secondary reactions in the wedge of a magnetic separator at RIA. Nuclear Physics A, 2004, 746, 403-406.	1.5	0
33	Simulation of effusion from targets of tilted foils. Nuclear Physics A, 2004, 746, 437-440.	1.5	1
34	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
35	Development of a low charge-to-mass ratio injector for a RIB linac. Nuclear Physics A, 2004, 746, 445-448.	1.5	0
36	High-order maps with acceleration for optimization of electrostatic and radio-frequency ion-optical elements. Review of Scientific Instruments, 2002, 73, 3174-3180.	1.3	5

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37	Liquid-lithium cooling for 100-kW ISOL and fragmentation targets. Nuclear Physics A, 2002, 701, 312-322.	1.5	29
38	Simultaneous Acceleration of Multiply Charged Ions through a Superconducting Linac. Physical Review Letters, 2001, 86, 2798-2801.	7.8	25
39	Production of radioactive ion beams using the in-flight technique. Review of Scientific Instruments, 2000, 71, 380-387.	1.3	76
40	The44Ti(Î±,p)Reaction and its Implication on the44TiYield in Supernovae. Physical Review Letters, 2000, 84, 1651-1654.	7.8	42
41	Stellar Reactions with Short-Lived Nuclei:17F(p,Î±)14O. Physical Review Letters, 1999, 82, 3964-3967.	7.8	44
42	Fusion Cross Sections for the Proton Drip Line NucleusF17at Energies below the Coulomb Barrier. Physical Review Letters, 1998, 81, 3341-3344.	7.8	126
43	Neon gas target for the production of radioactive fluorine beams. Review of Scientific Instruments, 1998, 69, 323-324.	1.3	0
44	Study of the56Ni(d,p)57NiReaction and the Astrophysical56Ni(p,Î³)57CuReaction Rate. Physical Review Letters, 1998, 80, 676-679.	7.8	78
45	Status of RNB facilities in North America. , 1998, , .		1
46	Exploring the18F(p,Î³)19Negateway to the formation of heavy elements in hot stars. Physical Review C, 1997, 55, R566-R569.	2.9	18
47	Low-energy stripping of Kr+, Xe+, and Pb+ beams in helium and nitrogen. Review of Scientific Instruments, 1997, 68, 2322-2327.	1.3	9
48	Coulomb explosion of 173-MeVHeH+ions traversing carbon foils. Physical Review A, 1997, 55, 2090-2096.	2.5	4
49	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
50	Astrophysical reaction rate for theF18(p,Î±)15O reaction. Physical Review C, 1996, 53, 1950-1954.	2.9	38
51	Study of theF18(p,Î±)15O reaction at astrophysical energies using aF18beam. Physical Review C, 1995, 52, R460-R463.	2.9	39
52	Construction of a large superconducting spectrometer dipole magnet with negative curvature. IEEE Transactions on Applied Superconductivity, 1993, 3, 114-117.	1.7	3
53	Reconstructive correction of aberrations in nuclear particle spectrographs. Physical Review C, 1993, 47, 537-544.	2.9	79
54	(12C,12B) and(12C,12N) reactions atE/A=70 MeV as spin probes: Calibration and application to1+states inMn56. Physical Review C, 1991, 44, 398-414.	2.9	35

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55	The superconducting beam transport system at the NSCL. IEEE Transactions on Magnetics, 1991, 27, 1951-1953.	2.1	3
56	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
57	Effects of insulation on potted superconducting coils. IEEE Transactions on Magnetics, 1989, 25, 1536-1537.	2.1	2
58	Magnetic structure for a superconducting variable frequency electron cyclotron resonance ion source. IEEE Transactions on Magnetics, 1989, 25, 1671-1675.	2.1	2
59	An adjustable permanent magnet focussing system for heavy ion beams. IEEE Transactions on Magnetics, 1988, 24, 990-993.	2.1	6
60	Search for the exotic nucleusHe10. Physical Review C, 1988, 37, 2220-2223.	2.9	24
61	Measurement of the beta decay half-life ofB17. Physical Review C, 1988, 37, 1314-1317.	2.9	9
62	Mass ofSc39via the40Ca(7Li,8He) reaction. Physical Review C, 1988, 38, 737-740.	2.9	10
63	Construction and testing of A Â± 16Â° superconducting beamline magnet. IEEE Transactions on Magnetics, 1987, 23, 524-527.	2.1	6
64	Lifetime measurements of neutron-rich light isotopesBe14andC17. Physical Review Letters, 1986, 56, 34-37.	7.8	39
65	A 1.6 GeV/c superconducting switching magnet. IEEE Transactions on Magnetics, 1985, 21, 990-992.	2.1	3
66	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
67	A study of 206Pb by inelastic scattering of 35 MeV protons. Nuclear Physics A, 1983, 407, 163-192.	1.5	22
68	Design of the NSCL Coupling Line. IEEE Transactions on Nuclear Science, 1983, 30, 2806-2808.	2.0	0
69	Strong Coulomb effects on pions produced in heavy ion collisons. Physical Review C, 1982, 25, 1499-1517.	2.9	36
70	Pions produced near the center-of-mass velocity in heavy-ion collisions. Physical Review C, 1982, 25, 1102-1104.	2.9	9
71	Pt194,196,198(p,pâ€²)reactions at 35 MeV. Physical Review C, 1981, 23, 1414-1433.	2.9	35
72	Experimental and theoretical study of line shapes in 13C(Î±, Î±â€²) inelastic scattering to resonant states. Nuclear Physics A, 1980, 343, 133-147.	1.5	10

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73	A study of the 54Fe(p, d)53Fe reaction at 40 MeV. Nuclear Physics A, 1979, 313, 141-156.	1.5	20
74	Beam Emittance Measurements with a Dispersion-Matched Magnetic Spectrograph. IEEE Transactions on Nuclear Science, 1979, 26, 2334-2336.	2.0	0
75	Lifetime Improvements of Heavy Ion Source Cathodes. IEEE Transactions on Nuclear Science, 1979, 26, 3716-3717.	2.0	2
76	A simple ion source for target preparation via ion beam sputtering. Nuclear Instruments & Methods, 1978, 150, 581-583.	1.2	4
77	Fast resolution optimization in a magnetic spectrograph. Nuclear Instruments & Methods, 1978, 156, 591-593.	1.2	3
78	An easily prepared scintillator for viewing accelerator beam spots. Nuclear Instruments & Methods, 1978, 156, 595-596.	1.2	2
79	Ar40(p,d)Ar39reaction atEp=35MeV. Physical Review C, 1977, 16, 1357-1362.	2.9	7
80	A high resolution study of 26Al via the (p, d) reaction. Nuclear Physics A, 1976, 263, 293-314.	1.5	25
81	Measuring nuclear excitation energies and Q-values with a cyclotron-magnetic spectrograph system. Nuclear Instruments & Methods, 1974, 115, 189-196.	1.2	40