

Frederick Becchetti

List of Publications by Year in descending order

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48
papers

1,295
citations

623734

14
h-index

345221

36
g-index

48
all docs

48
docs citations

48
times ranked

610
citing authors

#	ARTICLE	IF	CITATIONS
1	Sub-barrier Fusion of ^6He with ^209Bi . Physical Review Letters, 1998, 81, 4580-4583.	7.8	253
2	Transfer and/or Breakup Modes in the $^6\text{He} + ^{209}\text{Bi}$ Reaction near the Coulomb Barrier. Physical Review Letters, 2000, 84, 5058-5061.	7.8	185
3	B_{α} of ^6He . Physical Review Letters, 2000, 84, 5058-5061.	2.9	169
4	Elastic scattering and transfer in the $^6\text{He} + ^{209}\text{Bi}$ system below the Coulomb barrier. Physical Review C, 2001, 63, .	2.9	162
5	Two-neutron transfer in the $^6\text{He} + ^{209}\text{Bi}$ reaction near the Coulomb barrier. Physical Review C, 2005, 71, .	2.9	83
6	Breakup of ^6He incident on ^{209}Bi near the Coulomb barrier. Physical Review C, 2007, 75, .	2.9	54
7	Resonant scattering of ^6He on ^{209}Bi . Physical Review C, 2007, 75, .	2.9	54
8	One-dimensionality in atomic nuclei: A candidate for linear-chain clustering in ^6He . Physical Review C, 2016, 93, .	2.9	53
9	Proton elastic scattering from ^7Be at low energies. Physical Review C, 2001, 64, .	2.9	32
10	Proton elastic scattering from ^{27}Al at low energies. Physical Review C, 2017, 95, .	2.9	31
11	Elastic scattering and total reaction cross section for the $^7\text{Be} + ^{27}\text{Al}$ system at near-barrier energies. Physical Review C, 2014, 89, .	2.9	27
12	Elastic scattering of ^{10}Be on ^{208}Pb near the Coulomb barrier. Physical Review C, 2004, 69, .	2.9	24
13	Lowest excited states of ^{13}O . Physical Review C, 2007, 75, .	2.9	20
14	Precision half-life measurement of ^6He . Physical Review C, 2016, 93, .	2.9	16
15	Proton pair correlations and the neutrinoless double- β decay of ^{76}Ge . Physical Review C, 2013, 87, .	2.9	13
16	Backscattering measurement of ^6He on ^{209}Bi : Critical interaction distance. Physical Review C, 2016, 93, .	2.9	11
17	Precision half-life measurement of ^6He . Physical Review C, 2016, 93, .	2.9	11
18	Measurement of the $^7\text{Li}(\beta^+, t)^4\text{He}$ ground-state cross section between $E_{\beta^+} = 4.4$ and 10 MeV. Physical Review C, 2020, 101, .	2.9	11

#	ARTICLE	IF	CITATIONS
19	Precision half-life measurement of Al ²⁵ . Physical Review C, 2017, 96, .	2.9	10
20	Time-of-flight measurement of the speed of light using a laser and a low-voltage Pockels cell modulator. American Journal of Physics, 1987, 55, 632-634.	0.7	9
21	Characterization of Deuterated-Xylene Scintillator as a Neutron Spectrometer. IEEE Transactions on Nuclear Science, 2017, 64, 1825-1832.	2.0	7
22	Precision half-life measurement of ^{29}Al . Physical Review C, 2020, 101, .	2.9	7
23	Focusing of multiply charged energetic ions using solenoidal B and radial E lenses. Review of Scientific Instruments, 1987, 58, 220-222.	1.3	5
24	NUCLEAR FUSION: Evidence for Nuclear Reactions in Imploding Bubbles. Science, 2002, 295, 1850-1850.	12.6	5
25	Final state interaction or ^3He excited state?. Physical Review C, 2003, 68, .	2.9	5
26	Precise half-life determination of the mixed-mirror ^{12}O -decaying ^{15}O . Physical Review C, 2020, 101, .	2.9	5
27	Student experiments in spontaneous fission. American Journal of Physics, 1981, 49, 1162-1171.	0.7	4
28	^7Be -induced α -transfer reaction on ^{12}C . European Physical Journal: Special Topics, 2007, 150, 1-4.	2.6	4
29	NEW EXPERIMENTAL APPROACH FOR HEAVY AND SUPERHEAVY ELEMENT PRODUCTION. International Journal of Modern Physics E, 2009, 18, 1036-1043.	1.0	4
30	Time-of-flight measurement for energy-dependent intrinsic neutron detection efficiency. , 2010, , .		4
31	Resolving the discrepancy in the half-life of ^{20}F . Physical Review C, 2019, 99, .	2.9	4
32	The (Li^8, α) reaction at low energy: Direct ^4He cluster transfer?. Physical Review C, 2005, 71, .	2.9	3
33	A Macintosh TM -based multiparameter pulse height analyzer and multichannel scaler system for advanced teaching laboratories. Computers in Physics, 1994, 8, 608.	0.5	2
34	Applications of high-speed digital pulse acquisition and software-defined electronics (SDE) in advanced nuclear teaching laboratories. American Journal of Physics, 2020, 88, 70-80.	0.7	2
35	An advanced laboratory in nuclear-isotope mass spectroscopy. American Journal of Physics, 1998, 66, 1048-1055.	0.7	1
36	Radioactive nuclear beams studies using deuterated liquid scintillators. , 2007, , .		1

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37	Deuterated Liquid Scintillators: A New Tool for Neutron Measurements. AIP Conference Proceedings, 2011, , .	0.4	1
38	Comment on "252Cf fission-neutron spectrum using a simplified time-of-flight setup: An advanced teaching laboratory experiment" [Am. J. Phys. 81, 112-119 (2013)]. American Journal of Physics, 2014, 82, 706-706.	0.7	1
39	A multi-functional apparatus for $\hat{1}\pm$ and $\hat{1}^2$ spectroscopy utilizing a permanent ring-magnet $\hat{1}^2$ spectrometer. American Journal of Physics, 2016, 84, 883-893.	0.7	1
40	Proton spectroscopic strengths of ^{18}Ne . AIP Conference Proceedings, 2019, , .	0.4	1
41	Projected liquid-crystal computer display. Physics Teacher, 1985, 23, 382-383.	0.3	0
42	Direct measurement of the L/K ratio in the electron capture decay of ^7Be with cryogenic micro-calorimeters. , 2002, , .		0
43	Isobaric analog states of neutron-rich nuclei. Doppler shift as a measurement tool for resonance excitation functions. European Physical Journal A, 2005, 25, 259-260.	2.5	0
44	$\hat{1}\pm$ -stripping Reactions with Exotic Nuclei: $^{12}\text{C}(^7\text{Be}, ^3\text{He})^{16}\text{O}$. AIP Conference Proceedings, 2006, , .	0.4	0
45	Doppler shift as a tool for studies of resonant (p,n) reactions with RIBs: Spectroscopy of ^7He . AIP Conference Proceedings, 2006, , .	0.4	0
46	Tests of a $^6\text{C}^6\text{D}^6$ Deuterated Scintillator Array and Measurements of (d, n) Cross Sections. , 2009, , .		0
47	Response characterization for an EJ315 deuterium-based liquid scintillation detector. , 2012, , .		0
48	Search for (α)-Cluster Structure in Exotic Nuclei with the Prototype Active-Target Time-Projection Chamber. , 2017, , .		0