

# 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	Precision half-life measurement of $P$ . Physical Review C, 2020, 101, .	2.9	7
2	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
3	Precise half-life determination of the mixed-mirror $\hat{I}^2$ -decaying O15. Physical Review C, 2020, 101, .	2.9	5
4	Measurement of the ${}^7\text{Li}(\hat{I}^3, t)4\text{He}$ ground-state cross section between $E\hat{I}^3=4.4$ and 10 MeV. Physical Review C, 2020, 101, .	2.9	11
5	Resolving the discrepancy in the half-life of F20. Physical Review C, 2019, 99, .	2.9	4
6	Proton spectroscopic strengths of ${}^{18}\text{Ne}$ . AIP Conference Proceedings, 2019, , .	0.4	1
7	Precision half-life measurement of $C$ . The most precise mirror transition $B$ .	2.9	11
8	$B$ scattering at low energies. Physical Review C, 2017, 95, .	2.9	31
9	Characterization of Deuterated-Xylene Scintillator as a Neutron Spectrometer. IEEE Transactions on Nuclear Science, 2017, 64, 1825-1832.	2.0	7
10	Search for $(\alpha)$ -Cluster Structure in Exotic Nuclei with the Prototype Active-Target Time-Projection Chamber. , 2017, , .		0
11	Precision half-life measurement of Al25. Physical Review C, 2017, 96, .	2.9	10
12	A multi-functional apparatus for $\hat{I}^\pm$ and $\hat{I}^2$ spectroscopy utilizing a permanent ring-magnet $\hat{I}^2$ spectrometer. American Journal of Physics, 2016, 84, 883-893.	0.7	1
13	One-dimensionality in atomic nuclei: A candidate for linear-chain clustering in $C$ . Physical Review C, 2016, 93, .	2.9	53
14	Precision half-life measurement of $F$ . Physical Review C, 2016, 93, .	2.9	16
15	Backscattering measurement of $\text{He6onBi209}$ : Critical interaction distance. Physical Review C, 2016, 93, .	2.9	11
16	Comment on $\text{e}^{252}\text{Cf}$ fission-neutron spectrum using a simplified time-of-flight setup: An advanced teaching laboratory experiment [Am. J. Phys. 81, 112 (2013)]. American Journal of Physics, 2014, 82, 706-706.	0.7	1
17	Elastic scattering and total reaction cross section for the $\text{Be7}+\text{Al27}$ system at near-barrier energies. Physical Review C, 2014, 89, .	2.9	27
18	Resonant $\hat{I}^\pm$ scattering of $\text{He}$ : Limits of clustering in $\text{Be}$ . Physical Review C, 2013, 87, .	2.9	54

#	ARTICLE	IF	CITATIONS
19	Proton pair correlations and the neutrinoless double- $\hat{I}^2$ decay of $^{76}\text{Ge}$ . <i>Physical Review C</i> , 2013, 87, .	2.9	13
20	Response characterization for an EJ315 deuterium-based liquid scintillation detector. , 2012, , .		0
21	Deuterated Liquid Scintillators: A New Tool for Neutron Measurements. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	1
22	Time-of-flight measurement for energy-dependent intrinsic neutron detection efficiency. , 2010, , .		4
23	NEW EXPERIMENTAL APPROACH FOR HEAVY AND SUPERHEAVY ELEMENT PRODUCTION. <i>International Journal of Modern Physics E</i> , 2009, 18, 1036-1043.	1.0	4
24	Reaction cross sections for $^7\text{Be} + ^{12}\text{C}$ . $B$	2.9	169
25	Tests of a $^{12}\text{C}(^7\text{D},n)^{16}\text{O}$ Deuterated Scintillator Array and Measurements of $(d, n)$ Cross Sections. , 2009, , .		0
26	Radioactive nuclear beams studies using deuterated liquid scintillators. , 2007, , .		1
27	Lowest excited states of $^{13}\text{O}$ . <i>Physical Review C</i> , 2007, 75, .	2.9	20
28	Breakup of $^6\text{He}$ incident on $^{209}\text{Bi}$ near the Coulomb barrier. <i>Physical Review C</i> , 2007, 75, .	2.9	54
29	$^7\text{Be}$ -induced $\hat{I}^\pm$ -transfer reaction on $^{12}\text{C}$ . <i>European Physical Journal: Special Topics</i> , 2007, 150, 1-4.	2.6	4
30	$\hat{I}^\pm$ -stripping Reactions with Exotic Nuclei: $^{12}\text{C}(^7\text{Be}, ^3\text{He})^{16}\text{O}$ . <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
31	Doppler shift as a tool for studies of resonant $(p, n)$ reactions with RIBs: Spectroscopy of $^7\text{He}$ . <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
32	Isobaric analog states of neutron-rich nuclei. Doppler shift as a measurement tool for resonance excitation functions. <i>European Physical Journal A</i> , 2005, 25, 259-260.	2.5	0
33	Two-neutron transfer in the $^6\text{He} + ^{209}\text{Bi}$ reaction near the Coulomb barrier. <i>Physical Review C</i> , 2005, 71, .	2.9	83
34	The $(^7\text{Li}, \hat{I}^\pm)$ reaction at low energy: Direct $^4\text{He}$ cluster transfer?. <i>Physical Review C</i> , 2005, 71, .	2.9	3
35	Elastic scattering of $^{10}\text{Be}$ on $^{208}\text{Pb}$ near the Coulomb barrier. <i>Physical Review C</i> , 2004, 69, .	2.9	24
36	Final state interaction or $^3\text{He}$ excited state?. <i>Physical Review C</i> , 2003, 68, .	2.9	5

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37	NUCLEAR FUSION: Evidence for Nuclear Reactions in Imploding Bubbles. Science, 2002, 295, 1850-1850.	12.6	5
38	Direct measurement of the L/K ratio in the electron capture decay of $^7\text{Be}$ with cryogenic micro-calorimeters. , 2002, , .		0
39	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
40	Proton elastic scattering from $^7\text{Be}$ at low energies. Physical Review C, 2001, 64, .	2.9	32
41	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
42	An advanced laboratory in nuclear-isotope mass spectroscopy. American Journal of Physics, 1998, 66, 1048-1055.	0.7	1
43	Sub-barrier Fusion of $^6\text{He}$ with $^{209}\text{Bi}$ . Physical Review Letters, 1998, 81, 4580-4583.	7.8	253
44	A Macintosh <sup>TM</sup> -based multiparameter pulse height analyzer and multichannel scaler system for advanced teaching laboratories. Computers in Physics, 1994, 8, 608.	0.5	2
45	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
46	Focusing of multiply charged energetic ions using solenoidal B and radial E lenses. Review of Scientific Instruments, 1987, 58, 220-222.	1.3	5
47	Projected liquid-crystal computer display. Physics Teacher, 1985, 23, 382-383.	0.3	0
48	Student experiments in spontaneous fission. American Journal of Physics, 1981, 49, 1162-1171.	0.7	4