

# Richard deBoer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8992925/publications.pdf>

Version: 2024-02-01

65  
papers

1,047  
citations

394421

19  
h-index

477307

29  
g-index

67  
all docs

67  
docs citations

67  
times ranked

967  
citing authors

#	ARTICLE	IF	CITATIONS
1	The branchings of the main s-process: their sensitivity to $\hat{\nu}$ -induced reactions on $^{13}\text{C}$ and $^{22}\text{Ne}$ and to the uncertainties of the nuclear network. Monthly Notices of the Royal Astronomical Society, 2015, 45, 1-7.	4.4	75
2	Li	4.1	44
3	New Measurement of $^{6}\text{Li}$ Reaction rate. Physical Review Letters, 2013, 111, 112501.	2.9	44
4	C	7.8	43
5	Photoexcitation of astrophysically important states in $^{26}\text{Mg}$ . Physical Review C, 2009, 80, 044607.	2.9	42
6	PRODUCTION OF CARBON-RICH PRESOLAR GRAINS FROM MASSIVE STARS. Astrophysical Journal Letters, 2013, 767, L22.	8.3	42
7	Irradiation-Enhanced Reactivity of Multilayer Al/Ni Nanomaterials. ACS Applied Materials & Interfaces, 2015, 7, 11272-11279.	8.0	33
8	Probing astrophysically important states in the $^{26}\text{Mg}$ nucleus to study neutron sources for the s-process. Physical Review C, 2016, 93, 044607.	2.9	33
9	Observing Intermediate-mass Black Holes and the Upper Stellar-mass gap with LIGO and Virgo. Astrophysical Journal, 2022, 924, 39.	4.5	32
10	Experimental measurement of $^{12}\text{C} + ^{16}\text{O}$ fusion at stellar energies. Physical Review Letters, 2013, 111, 112501.	2.9	30
11	Improved background suppression for radiative capture reactions at LUNA with HPGe and BGO detectors. Journal of Physics C: Nuclear and Particle Physics, 2018, 45, 025203.	3.6	30
12	Cross section measurement of $^{14}\text{N} + ^{12}\text{C}$ fusion at stellar energies. Physical Review Letters, 2013, 111, 112501.	2.9	30
13	$^{12}\text{C} + ^{12}\text{C}$ fusion at stellar energies. Physical Review Letters, 2013, 111, 112501.	2.9	30

#	ARTICLE	IF	CITATIONS
19	<p> <math display="block">\langle \sigma \rangle = \frac{1}{\Omega} \int \sigma(\theta) \Omega d\Omega</math> </p> <p> <math display="block">\langle \sigma \rangle = \frac{1}{\Omega} \int \sigma(\theta) \Omega d\Omega</math> </p>	7.8	20
20	<p> <math display="block">\langle \sigma \rangle = \frac{1}{\Omega} \int \sigma(\theta) \Omega d\Omega</math> </p> <p> <math display="block">\langle \sigma \rangle = \frac{1}{\Omega} \int \sigma(\theta) \Omega d\Omega</math> </p>	7.8	20
21	<p>Measurement of <math>^{13}\text{C}</math> rays from <math>^{15}\text{N}(p, \hat{1}^3)^{16}\text{O}</math> cascade and <math>^{15}\text{N}(p, \hat{1}^3)^{12}\text{C}</math> reactions. Physical Review C, 2012, 85, .</p>	2.9	19
22	<p>Low energy measurements of the <math>^{10}\text{B}(p, n)^{11}\text{C}</math> reaction. Physical Review C, 2019, 100, 014601.</p>	2.9	19
23	<p>Cross section of the reaction <math>^{18}\text{O}(p, \hat{1}^3)^{19}\text{F}</math> at astrophysical energies: The 90 keV resonance and the direct capture component. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134900.</p>	4.1	18
24	<p>Determination of hexadecapole (<math>\hat{1}^2_4</math>) deformation of the light-mass nucleus <math>^{24}\text{Mg}</math> using quasi-elastic scattering measurements. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 806, 135473.</p>	4.1	18
25	<p>Photoexcitation of astrophysically important states in <math>^{24}\text{Mg}</math>. Physical Review C, 2012, 85, 014601.</p>	2.9	17
26	<p>Ground-state-transition partial widths. Physical Review C, 2010, 82, .</p>	2.9	16
27	<p>Verification of R-matrix calculations for charged-particle reactions in the resolved resonance region for the <math>^7\text{Be}</math> system. European Physical Journal A, 2019, 55, 1.</p>	2.5	16
28	<p>Low energy resonances in the <math>^{13}\text{C}(p, n)^{14}\text{N}</math> reaction. Physical Review C, 2011, 84, 014601.</p>	7.8	16
29	<p>Low energy resonances in the <math>^{13}\text{C}(p, n)^{14}\text{N}</math> reaction. Physical Review C, 2011, 84, 014601.</p>	7.8	16
30	<p>Low energy resonances in the <math>^{13}\text{C}(p, n)^{14}\text{N}</math> reaction. Physical Review C, 2011, 84, 014601.</p>	7.8	16
31	<p>The status and future of direct nuclear reaction measurements for stellar burning. Journal of Physics C: Nuclear and Particle Physics, 2022, 49, 010501.</p>	3.6	13
32	<p>AGB yields and Galactic Chemical Evolution: last updated. Journal of Physics: Conference Series, 2016, 665, 012023.</p>	0.4	12
33	<p>Low energy cross-section measurement of the <math>^{13}\text{C}(p, n)^{14}\text{N}</math> reaction. Physical Review C, 2011, 84, 014601.</p>	7.8	16
34	<p>Low energy cross-section measurement of the <math>^{13}\text{C}(p, n)^{14}\text{N}</math> reaction. Physical Review C, 2011, 84, 014601.</p>	7.8	16
35	<p>Effect of the inelastic couplings on the scattering of alpha particles by <math>^{12}\text{C}</math> at low energies. Journal of Physics C: Nuclear and Particle Physics, 2014, 41, 035101.</p>	3.6	10
36	<p>Low energy scattering cross section ratios of <math>^{14}\text{N}(p, p)N^{14}</math>. Physical Review C, 2015, 91, .</p>	2.9	10

#	ARTICLE	IF	CITATIONS
37	$\hat{\pm}$ -unbound levels in from none		

#	ARTICLE	IF	CITATIONS
55	Global R-matrix analysis of the $^{11}\text{B}(\hat{1}\pm, n)^{14}\text{N}$ reaction. Journal of Physics: Conference Series, 2020, 1668, 012011.	0.4	3
56	Neutron Sources in Early Stars. Acta Physica Polonica B, 2020, 51, 631.	0.8	3
57	Neutron transfer studies on Mg25 and its correlation to neutron radiative capture processes. Physical Review C, 2021, 103, .	2.9	2
58	First direct measurement of $^{12}\text{C}(^{12}\text{C}, n)^{23}\text{Mg}$ at stellar energies. EPJ Web of Conferences, 2016, 109, 04009.	0.3	1
59	Investigation of secondary $\hat{1}^3$ -ray angular distributions using the $\text{N}15(p, \hat{1}\pm \hat{1}^3)\text{C}^{*12}$ reaction. Physical Review C, 2021, 103, .	2.9	1
60	New resonances in $^{11}\text{C}$ above the $^{10}\text{B}$	2.9	1
61	$^{23}\text{Na}(p, \hat{1}^3)^{24}\text{Mg}$ Cross Section Measurements. EPJ Web of Conferences, 2017, 165, 01006.	0.3	0
62	Experimental measurement of the $^{12}\text{C}+^{16}\text{O}$ fusion cross sections at astrophysical energies. EPJ Web of Conferences, 2018, 178, 04008.	0.3	0
63	Cross-section measurements on low-lying excited final states in the $^{24}\text{Mg}(p, \hat{1}\pm)^{25}\text{Mg}$		