

Richard deBoer

List of Publications by Year in descending order

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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 status and future of direct nuclear reaction measurements for stellar burning. Journal of Physics G: Nuclear and Particle Physics, 2022, 49, 010501.	3.6	13
2	Observing Intermediate-mass Black Holes and the Upper Stellar-mass gap with LIGO and Virgo. Astrophysical Journal, 2022, 924, 39.	4.5	32
3	Investigation of the C^{11} reaction above the Be^{10} reaction from Be^{10} and implications for the formation of the Solar System. Physical Review C, 2022, 106, .	2.9	1
4	Performance of neutron spectrum unfolding using deuterated liquid scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 989, 164824.	1.6	9
5	Neutron transfer studies on Mg^{25} and its correlation to neutron radiative capture processes. Physical Review C, 2021, 103, .	2.9	2
6	Lifetime measurements of excited states in O^{15} . Physical Review C, 2021, 103, .	2.9	5
7	Investigation of secondary β^+ -ray angular distributions using the $N^{15}(p, \beta^+)C^{12}$ reaction. Physical Review C, 2021, 103, .	2.9	1
8	Low-energy resonances in the O^{15} reaction. Physical Review C, 2021, 104, .	2.9	13
9	Nuclear clusters as the first stepping stones for the chemical evolution of the universe. European Physical Journal A, 2021, 57, 1.	2.5	9
10	Direct Measurement of the Astrophysical F_0 reaction. Physical Review C, 2021, 104, .		
11			
12			

#	ARTICLE	IF	CITATIONS
19	<p> http://www.w3.org/1998/Math/MathML O </p>	7.8	16
20	Determination of hexadecapole (I^{24}) deformation of the light-mass nucleus ^{24}Mg using quasi-elastic scattering measurements. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 806, 135473.	4.1	18
21	Neutron Sources in Early Stars. <i>Acta Physica Polonica B</i> , 2020, 51, 631.	0.8	3
22	Precision Measurements of the $(^{24}\text{Mg}(\alpha, p\gamma)^{27}\text{Al})$ and $(^{27}\text{Al}(p, \alpha\gamma)^{24}\text{Mg})$ Cross Sections. , 2020, , .		0
23	Direct measurements of low-energy resonance strengths of the $^{23}\text{Na}(p, ^3\text{He})^{24}\text{Mg}$ reaction for astrophysics. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 795, 122-128.	4.1	23
24	The ORNL Deuterated Spectroscopic Array $\hat{\alpha}$ ODeSA. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 946, 162668.	1.6	6
25	<p> http://www.w3.org/1998/Math/MathML B </p>	2.9	6
26	Cross section of the reaction $^{18}\text{O}(p, ^3\text{He})^{19}\text{F}$ at astrophysical energies: The 90 keV resonance and the direct capture component. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 797, 134900.	4.1	18
27	Verification of R-matrix calculations for charged-particle reactions in the resolved resonance region for the ^7Be system. <i>European Physical Journal A</i> , 2019, 55, 1.	2.5	16
28	Present knowledge of $^3\text{He}(^3\text{He}, 2p)^4\text{He}$ and $^3\text{He}(^4\text{He}, i^3\text{i})^7\text{Be}$. , 2019, , .		0
29	Improved background suppression for radiative capture reactions at LUNA with HPGe and BGO detectors. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2018, 45, 025203.	3.6	30
30	Experimental measurement of the $^{12}\text{C}+^{16}\text{O}$ fusion cross sections at astrophysical energies. <i>EPJ Web of Conferences</i> , 2018, 178, 04008.	0.3	0
31	<p> http://www.w3.org/1998/Math/MathML Ar </p>		

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37	23Na(p,13)24Mg Cross Section Measurements. EPJ Web of Conferences, 2017, 165, 01006.	0.3	0
38	First direct measurement of 12C(12C,n)23Mg at stellar energies. EPJ Web of Conferences, 2016, 109, 04009.	0.3	1
39	Probing astrophysically important states in the ^{26}Mg nucleus to study neutron sources for the $^{12}\text{C}(\alpha, n)^{15}\text{N}$ process. Cross section measurement of $^{12}\text{C}(\alpha, n)^{15}\text{N}$ in the CNO cycle. Physical Review	2.9	33
40	AGB yields and Galactic Chemical Evolution: last updated. Journal of Physics: Conference Series, 2016, 665, 012023.	0.4	12
41	Shell and explosive hydrogen burning. European Physical Journal A, 2016, 52, 1.	2.5	25
42	The first science result with the JENSA gas-jet target: Confirmation and study of a strong subthreshold $^{12}\text{C}(\alpha, n)^{15}\text{N}$ reaction.		
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55	Systematic study of the ${}^6\text{Li}(\alpha, n){}^9\text{Be}$ reaction. <i>Physical Review C</i> , 2013, 87, .	4.1	44
56	PRODUCTION OF CARBON-RICH PRESOLAR GRAINS FROM MASSIVE STARS. <i>Astrophysical Journal Letters</i> , 2013, 767, L22.	8.3	42
57	Matrix analysis of ${}^{16}\text{O}$ compound nucleus reactions. <i>Physical Review C</i> , 2013, 87, .	2.9	21
58	Experimental investigation of the ${}^{12}\text{C}+{}^{12}\text{C}$ fusion at very low energies by direct and indirect methods. <i>Journal of Physics: Conference Series</i> , 2013, 420, 012151.	0.4	6
59	Systematic study of the ${}^{\text{Z}}\text{C}(\alpha, n){}^{\text{Z}+4}\text{N}$ reaction. <i>Physical Review C</i> , 2012, 85, .	2.9	17
60	Measurement of elastic ${}^{12}\text{C}+{}^{\text{Z}}\text{C}$ scattering: Above the proton separation energy. <i>Physical Review C</i> , 2012, 85, .	2.9	9
61	Elastic scattering of protons from ${}^{15}\text{N}$. <i>Physical Review C</i> , 2012, 85, .	2.9	9
62	Measurement of ${}^{13}\text{C}$ rays from ${}^{15}\text{N}(p, \gamma){}^{16}\text{O}$ cascade and ${}^{15}\text{N}(p, \gamma){}^{13}\text{C}$ reactions. <i>Physical Review C</i> , 2012, 85, .	2.9	19
63	Photoexcitation of astrophysically important states in ${}^{26}\text{Mg}$. II. <i>Physical Review C</i> , 2009, 80, .	2.9	16
64	Photoexcitation of astrophysically important states in ${}^{26}\text{Mg}$. I. <i>Physical Review C</i> , 2009, 80, .	2.9	20
65	Photoexcitation of astrophysically important states in ${}^{26}\text{Mg}$. <i>Physical Review C</i> , 2009, 80, .	2.9	42