

Martin Freer

List of Publications by Year in descending order

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79
papers

2,761
citations

257450

24
h-index

175258

52
g-index

79
all docs

79
docs citations

79
times ranked

1263
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating the predicted breathing-mode excitation of the Hoyle state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136928. Multiprobe study of excited states in C	4.1	8
2	Disentangling the sources of monopole strength between the energy of the Hoyle state and E	2.9	3
3	Symmetries of the oblate deformed harmonic oscillator. Journal of Physics G: Nuclear and Particle Physics, 2022, 49, 055105.	3.6	4
4	The identification of α -clustered doorway states in $^{44,48,52}\text{Ti}$ using machine learning. European Physical Journal A, 2021, 57, 1.	2.5	8
5	Probing nuclear cluster symmetries through the harmonic oscillator. European Physical Journal A, 2021, 57, 1.	2.5	3
6	Convolutional Neural Networks for Challenges in Automated Nuclide Identification. Sensors, 2021, 21, 5238.	3.8	8
7	Stringent upper limit on the direct α -decay of the Hoyle state in C	2.9	17
8	Demonstration of the universality of molecular structures in prolate deformed nuclei. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 095102.	3.6	5
9	Mass measurement of Re-190. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 085104.	3.6	2
10	Extracting the spectral signature of α -clustering in Ti	2.9	12
11	Strong Neutron Pairing in core+4n Nuclei. Physical Review Letters, 2018, 120, 152504.	7.8	9
12	Microscopic clustering in light nuclei. Reviews of Modern Physics, 2018, 90, .	45.6	204
13	Influences of geometry and topology in nuclei. , 2018, , 49-60.		0
14	Characterization of the proposed 4α cluster state candidate in O	2.9	22
15	Decay from the ^{16}O Hoyle state	7.8	55
16	$Be+Be$ and $C^{12} + \alpha$ breakup states in O^{16} populated via the $C^{13}(\text{He}4, \alpha)$ nreaction. Physical Review C, 2016, 94, .	2.9	20
17	Evidence for a 3.8 MeV state in Be^9 . Physical Review C, 2016, 94, .	2.9	2
18	Experimental study of high-lying states in Mg^{28} using the resonant elastic scattering of α particles. Physical Review C, 2016, 94, .	2.9	2

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19	Breakup branches of Borromean beryllium-9. AIP Conference Proceedings, 2015, , .	0.4	4
20	Spectroscopy of narrow, high-lying, low-spin states in ^{20}Ne . Physical Review Spectroscopy and Optics, 2015, , .	2.9	10
21	Resonances in ^{9}B via ^{9}C . Physical Review Letters, 2015, , .	2.9	5
22	^{14}C observed in the ^{4}He Hoyle state in ^{12}C . Progress in Particle and Nuclear Physics, 2014, 78, 1-23.	2.9	57
23	The structure of ^{12}C . Pramana - Journal of Physics, 2014, 83, 643-650.	14.4	171
24	Evidence for Triangular ^{12}C Symmetry in Precision measurement of the 9.641 MeV , $3h$ state in ^{12}C . Physical Review C, 2013, 87, .	1.8	1
25	^{12}C observed in the ^{13}C \hat{I}^{\pm} linear chain state in ^{16}O . Physical Review C, 2013, 88, .	7.8	178
26	^{13}C \hat{I}^{\pm} linear chain state in ^{16}O . Physical Review C, 2013, 87, .	2.9	18
27	^{13}C \hat{I}^{\pm} linear chain state in ^{16}O . Physical Review C, 2013, 87, .	2.9	38
28	Investigation of the $4\hat{I}^{\pm}$ linear chain state in ^{16}O . Physical Review C, 2013, 88, .	2.9	31
29	$^{13}\text{C} + ^4\text{He}$ resonant elastic scattering on a thick gas target. , 2012, , .		0
30	Resonant scattering studies of light nuclei. , 2012, , .		0
31	Resonances in ^{13}C observed in the ^{13}C \hat{I}^{\pm} linear chain state in ^{16}O . Physical Review C, 2013, 88, .		0

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37	Study Of The Scattering Of Halo Nuclei Around The Coulomb Barrier. , 2011, , .		0
38	CLUSTER STATES IN 12C AND 14C. Modern Physics Letters A, 2010, 25, 1833-1837.	1.2	2
39	Cluster Structure of [¹² C and [¹¹ Be. , 2009, , . <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mn>2</mml:mn></mml:msup><mml:mo>+</mml:mo></mml:mrow></math>		1
40	of the<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /></math>	2.9	134
41	Dilute Nuclear States: [¹² C, [¹⁰ Be and [¹⁴ C. , 2009, , .		0
42	SEARCH FOR DILUTE NUCLEAR STATES IN 12C AND 16O. International Journal of Modern Physics E, 2008, 17, 2096-2100.	1.0	1
43	Dilute Nuclear States: [¹² C, [¹⁰ Be and [¹⁴ C. , 2008, , .		1
44	Measurement of \hat{I}_{\pm} and neutron decay widths of excited states of ¹⁴ C. Physical Review C, 2008, 78, .	2.9	33
45	Breakup reaction study of the Brunnian nucleus<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /></math>	2.9	29
46	DILUTE NUCLEAR STATES. , 2008, , .		0
47	First results on double \hat{I}^2 -decay modes of Cd, Te, and Zn Isotopes. Physical Review C, 2007, 76, .	2.9	36
48	\hat{I}_{\pm} decay of excited states in ¹⁴ C. Physical Review C, 2007, 75, .	2.9	33
49	Reexamination of the excited states of<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /></math>	2.9	83
50	The clustered nucleus "cluster structures in stable and unstable nuclei. Reports on Progress in Physics, 2007, 70, 2149-2210.	20.1	271
51	Reactions induced by 35 MeV ⁶ He beam on ¹² C and ¹⁴ C. European Physical Journal: Special Topics, 2007, 150, 43-46.	2.6	0
52	Nuclear clusters and nuclear molecules. Physics Reports, 2006, 432, 43-113.	25.6	406
53	Search For Three Centre Cluster Structures in ^{10,11,12} B. AIP Conference Proceedings, 2006, , .	0.4	0
54	The role of the cluster in nuclear reactions. AIP Conference Proceedings, 2006, , .	0.4	0

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55	Experimental evidence for cluster structure of ^{11}B excited states. AIP Conference Proceedings, 2006, , .	0.4	0
56	Studies of Single-Particle Structure in the $N=16$ Region Using Transfer Reactions. AIP Conference Proceedings, 2006, , .	0.4	0
57	Studies of the Single Particle Structure of Exotic Nuclei using Transfer Reactions. AIP Conference Proceedings, 2006, , .	0.4	0
58	$\hat{1}\hat{2}\hat{n}\hat{a}\hat{1}\hat{2}$ Molecular Band in Be_{10} . Physical Review Letters, 2006, 96, 042501.	7.8	127
59	$\hat{1}\hat{2}$ -decaying states in $\text{Be}_{10,12}$ populated in the $\text{Be}_{10}(\text{C}_{14}, \text{Be}_{10,12})$ reaction. Physical Review C, 2006, 73, .	2.9	17
60	$\hat{1}\hat{2}$ -decaying states $\text{O}_{18}, \text{Ne}_{20}$ and Ne_{22} in O_{18} beam induced reactions. Physical Review C, 2006, 73, .	2.9	19
61	COMBINING CLUSTER STRUCTURE WITH REACTIONS. Modern Physics Letters A, 2006, 21, 2419-2428.	1.2	1
62	Experimental evidence of a $\mathit{u}(1d_{5/2})^2$ component to the ^{12}Be ground state. European Physical Journal A, 2005, 25, 349-351.	2.5	10
63	$\hat{1}\hat{2} + \text{Li}$ and $\text{H} + \text{Be}$ decay of $^{10,11,12}\text{B}$. Physical Review C, 2005, 72, .	2.9	16
64	High-energy two-neutron removal from Be_{10} . Physical Review C, 2005, 72, .	2.9	17
65	SEARCH FOR TETRANEUTRONS IN THE BREAKUP OF ^8He . , 2005, , .		0
66	Breakup reaction studies of Be_{10} and $\text{B}_{10,11}$ using a Be_{10} beam. Physical Review C, 2004, 69, .	2.9	36
67	Neutron removal and cluster breakup of B_{14} and Be_{14} . Physical Review C, 2004, 70, .	2.9	7
68	One-neutron removal reactions on light neutron-rich nuclei. Physical Review C, 2004, 69, .	2.9	118
69	Heavy ion radiative capture: $^{12}\text{C}(^{12}\text{C}, \hat{1}^3)$. AIP Conference Proceedings, 2004, , .	0.4	0
70	Characterization of molecular structures in the deformed harmonic oscillator. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, 447-463.	3.6	5
71	Measurements of the breakup and neutron removal cross sections for C_{16} . Physical Review C, 2004, 70, .	2.9	15
72	Molecular Structures in Two- and Three-Centre Systems. Acta Physica Hungarica A Heavy Ion Physics, 2003, 18, 185-191.	0.4	0

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73	^{10}Be excited states populated in the $^9\text{Be}(^9\text{Be}, ^8\text{Be})^{10}\text{Be}$ reaction. <i>Physical Review C</i> , 2003, 68, .	2.9	17
74	Search for analog molecular chain states in ^{16}C . <i>Physical Review C</i> , 2002, 66, .	2.9	17
75	HEAVY ION RADIATIVE CAPTURE: A STUDY OF THE $^{12}\text{C}(^{12}\text{C}, \hat{1}^3)$ REACTION USING A LARGE GERMANIUM DETECTOR ARRAY. , 2002, , .		0
76	Exotic molecular and halo states in. , 1998, , .		0
77	Cluster states in ^{24}Mg and ^{28}Si . <i>Il Nuovo Cimento A</i> , 1997, 110, 1015-1021.	0.2	2
78	Relationship between the deformed harmonic oscillator and clustering in light nuclei. <i>Nuclear Physics A</i> , 1995, 587, 36-54.	1.5	51
79	Rotations of the Hoyle State in Carbon-12. <i>Physics Magazine</i> , 0, 4, .	0.1	32