

Martin Freer

List of Publications by Year in descending order

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Version: 2024-02-01

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	Nuclear clusters and nuclear molecules. <i>Physics Reports</i> , 2006, 432, 43-113.	25.6	406
2	The clustered nucleus cluster structures in stable and unstable nuclei. <i>Reports on Progress in Physics</i> , 2007, 70, 2149-2210.	20.1	271
3	Microscopic clustering in light nuclei. <i>Reviews of Modern Physics</i> , 2018, 90, .	45.6	204
4	Evidence for Triangular Symmetry in D^3	7.8	178
5	The Hoyle state in ^{12}C . <i>Progress in Particle and Nuclear Physics</i> , 2014, 78, 1-23.	14.4	171
6	of the C^3	2.9	134
7	^{12}C Hoyle state. <i>Phys Rev Lett</i> , 2006, 96, 042501.	7.8	127
8	One-neutron removal reactions on light neutron-rich nuclei. <i>Physical Review C</i> , 2004, 69, .	2.9	118
9	Evidence for a new ^{12}C state at 13.3 MeV. <i>Physical Review C</i> , 2011, 83	2.9	102
10	Reexamination of the excited states of ^{12}C . <i>Physical Review C</i> , 2007, 76, .	2.9	83
11	Consistent analysis of the ^{12}C excitation of the ^{12}C Hoyle	2.9	74
12	Further evidence for the broad ^{12}C at 9.6 MeV in ^{12}C . <i>Physical Review C</i> , 2011, 83	2.9	67
13	New Measurement of the Direct ^{12}C observed in	2.9	57
14	Decay from the ^{12}C	7.8	55
15	Relationship between the deformed harmonic oscillator and clustering in light nuclei. <i>Nuclear Physics A</i> , 1995, 587, 36-54.	1.5	51
16	β^3 -ray spectroscopy of the $A=23, T=1/2$ nuclei ^{23}Na and ^{23}Mg : High-spin states, mirror symmetry, and applications to nuclear astrophysical reaction rates. <i>Physical Review C</i> , 2013, 87, .	2.9	38
17	Breakup reaction studies of ^{10}Be and ^{11}B using a ^{10}Be beam. <i>Physical Review C</i> , 2004, 69, .	2.9	36
18	First results on double β^2 -decay modes of Cd, Te, and Zn Isotopes. <i>Physical Review C</i> , 2007, 76, .	2.9	36

#	ARTICLE	IF	CITATIONS
19	ices in $\langle \text{mml:math xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ display= "inline" } \langle \text{mml:msup} \rangle \langle \text{mml:mrow} / \rangle \langle \text{mml:mn} \rangle 11 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle C$ observed in the $\langle \text{mml:math xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \langle \text{mml:msup} \rangle \langle \text{mml:mrow}$		

#	ARTICLE	IF	CITATIONS
37	Measurements of the breakup and neutron removal cross sections for ^{16}C . Physical Review C, 2004, 70, .	2.9	15
38	Extracting the spectral signature of $\hat{\Gamma}_{\pm}$ clustering in ^{16}C . Physical Review C, 2015, 91, .	2.9	12
39	Experimental evidence of a $\frac{1}{2}^{-}$ component to the ^{12}Be ground state. European Physical Journal A, 2005, 25, 349-351.	2.5	10
40	Spectroscopy of narrow, high-lying, low-spin states in ^{20}Ne . Physical Review C, 2015, 91, .	2.9	10
41	Strong Neutron Pairing in core+4n Nuclei. Physical Review Letters, 2018, 120, 152504.	7.8	9
42	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
43	Convolutional Neural Networks for Challenges in Automated Nuclide Identification. Sensors, 2021, 21, 5238.	3.8	8
44	Investigating the predicted breathing-mode excitation of the Hoyle state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136928.	4.1	8
45	Neutron removal and cluster breakup of ^{14}B and ^{14}Be . Physical Review C, 2004, 70, .	2.9	7
46	Characterization of molecular structures in the deformed harmonic oscillator. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, 447-463.	3.6	5
47	Spectroscopy of ^{9}B via high-resolution ejectile-tagged recoil break-up. Physical Review C, 2015, 91, .	2.9	5
48	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
49	Breakup branches of Borromean beryllium-9. AIP Conference Proceedings, 2015, , .	0.4	4
50	Symmetries of the oblate deformed harmonic oscillator. Journal of Physics G: Nuclear and Particle Physics, 2022, 49, 055105.	3.6	4
51	Probing nuclear cluster symmetries through the harmonic oscillator. European Physical Journal A, 2021, 57, 1.	2.5	3
52	Multiprobe study of excited states in ^{12}C : Disentangling the sources of monopole strength between the energy of the Hoyle state and ^{12}C . Physical Review C, 2015, 91, .	2.9	3
53	Cluster states in ^{24}Mg and ^{28}Si . Il Nuovo Cimento A, 1997, 110, 1015-1021.	0.2	2
54	CLUSTER STATES IN ^{12}C AND ^{14}C . Modern Physics Letters A, 2010, 25, 1833-1837.	1.2	2

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55	Evidence for a 3.8 MeV state in Be9. Physical Review C, 2016, 94, .	2.9	2
56	Experimental study of high-lying states in Mg28 using the resonant elastic scattering of $\hat{1}\pm$ particles. Physical Review C, 2016, 94, .	2.9	2
57	Mass measurement of Re-190. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 085104.	3.6	2
58	COMBINING CLUSTER STRUCTURE WITH REACTIONS. Modern Physics Letters A, 2006, 21, 2419-2428.	1.2	1
59	SEARCH FOR DILUTE NUCLEAR STATES IN ^{12}C AND ^{16}O . International Journal of Modern Physics E, 2008, 17, 2096-2100.	1.0	1
60	Dilute Nuclear States: ^{12}C , ^{10}Be and ^{14}C . , 2008, , .		1
61	Cluster Structure of ^{12}C and ^{11}Be . , 2009, , .		1
62	The structure of ^{12}C . Pramana - Journal of Physics, 2014, 83, 643-650.	1.8	1
63	Exotic molecular and halo states in. , 1998, , .		0
64	Molecular Structures in Two- and Three-Centre Systems. Acta Physica Hungarica A Heavy Ion Physics, 2003, 18, 185-191.	0.4	0
65	Heavy ion radiative capture: $^{12}\text{C}(^{12}\text{C}, \hat{1}^3)$. AIP Conference Proceedings, 2004, , .	0.4	0
66	Search For Three Centre Cluster Structures in ^{10}B , ^{11}B , ^{12}B . AIP Conference Proceedings, 2006, , .	0.4	0
67	The role of the cluster in nuclear reactions. AIP Conference Proceedings, 2006, , .	0.4	0
68	Experimental evidence for cluster structure of ^{11}B excited states. AIP Conference Proceedings, 2006, , .	0.4	0
69	Studies of Single-Particle Structure in the N=16 Region Using Transfer Reactions. AIP Conference Proceedings, 2006, , .	0.4	0
70	Studies of the Single Particle Structure of Exotic Nuclei using Transfer Reactions. AIP Conference Proceedings, 2006, , .	0.4	0
71	Reactions induced by 35 MeV ^6He beam on ^{12}C and ^{14}C . European Physical Journal: Special Topics, 2007, 150, 43-46.	2.6	0
72	Dilute Nuclear States: ^{12}C , ^{10}Be and ^{14}C . , 2009, , .		0

#	ARTICLE	IF	CITATIONS
73	Study Of The Scattering Of Halo Nuclei Around The Coulomb Barrier. , 2011, , .		0
74	[sup 13]C+[sup 4]He resonant elastic scattering on a thick gas target. , 2012, , .		0
75	Resonant scattering studies of light nuclei. , 2012, , .		0
76	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
77	SEARCH FOR TETRANEUTRONS IN THE BREAKUP OF ^8He . , 2005, , .		0
78	DILUTE NUCLEAR STATES. , 2008, , .		0
79	Influences of geometry and topology in nuclei. , 2018, , 49-60.		0