James Mitchell Allmond

List of Publications by Year
in descending order

88 papers	1,585 citations	257450 24 h-index	345221 36 g-index
90 all docs	90 docs citations	90 times ranked	1138 citing authors

#	Article	IF	Citations
1	Ground-state and decay properties of neutron-rich Nb106. Physical Review C, 2021, 103, .	2.9	1
2	Î²-delayed neutron emission of r-process nuclei at the Nâ€¯=â€¯82 shell closure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136266.	4.1	21
3	Early Signal of Emerging Nuclear Collectivity in Neutron-Rich <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Sb</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>129</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review Letters, 2020, 124, 032502.	7.8	14
4	E2 collectivity in shell-model calculations for odd-mass nuclei near 132Sn. EPJ Web of Conferences, 2020, 232, 04007.	0.3	1
5	Observation of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î¼</mml:mi><mml:mtext>s</mml:mtext></mml:math> isomer in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">In</mml:mi><mml:mn>85</mml:mn><mml:none /><mml:mprescripts /><mml:none /><mml:mspace width="0.16em" /><mml:mspace width="0.16em" /><mml:mspace	2.9	10
6	Structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Cl</mml:mi><mml:mprescripts /><mml:none /><mml:mn>38</mml:mn></mml:mmultiscripts></mml:math> and the quest for a comprehensive shell model interaction. Physical Review C, 2019, 100, .	2.9	21
7	Commissioning of the BRIKEN detector for the measurement of very exotic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> decays of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>r</mml:mi></mml:math>-process nuclei <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Ga</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>86</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>.	2.9	13
8	Informing direct neutron capture on tin isotopes near the N=82 shell closure. Physical Review C, 2019, 99, .	2.9	10
9	Commissioning of the BRIKEN detector for the measurement of very exotic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e946" altimg="si79.gif"><mml:mi>Î²</mml:mi></mml:math>-delayed neutron emitters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 925, 133-147.	1.6	23
10	Low-spin structure of the N=82 nucleus Cs137. Physical Review C, 2018, 98, .	2.9	0
11	The BRIKEN Project: Extensive Measurements of $eta $-delayed Neutron Emitters for the Astrophysical r Process. Acta Physica Polonica B, 2018, 49, 417.	0.8	16
12	Triaxiality near the 110Ru ground state from Coulomb excitation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 766, 334-338.	4.1	22
13	Electromagnetic Moments of Radioactive <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Te</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>136</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> and the Emergence of Collectivity <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" disp	7.8	26
14	Empirical moments of inertia of axially asymmetric nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 767, 226-231.	4.1	23
15	Particle- $gamma$ Î³ coincidence spectroscopy of the N = 90 nucleus 154Gd by ($p,tgamma$ p , t Î³). European Physical Journal A, 2017, 53, 1.	2.5	1
16	Investigation of negative-parity states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Dy</mml:mi><mml:mprescripts /><mml:none /><mml:mn>156</mml:mn></mml:mmultiscripts></mml:math> : Search for evidence of tetrahedral symmetry. Physical Review C, 2017, 95, .	2.9	9
17	First-excited state g factor of Te136 by the recoil in vacuum method. Physical Review C, 2017, 96, .	2.9	13
18	Energy reconstruction of an n-type segmented inverted coaxial point-contact HPGe detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 868, 19-26.	1.6	5

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19	Complete spectroscopy of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="bold">Po</mml:mi><mml:mprescripts /><mml:none /><mml:mn>211</mml:mn></mml:mmultiscripts></mml:math> below 2.0 MeV via the (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlo	2.9	2
20	Beta-Delayed Neutron Measurements near ¹³²Sn with CARIBU. , 2017, , .		0
21	Investigating shape evolution and the emergence of collectivity through the synergy of Coulomb excitation andÎ²decay. EPJ Web of Conferences, 2016, 123, 02006.	0.3	0
22	Investigation of discrete states and quasidiscrete structures observed in Sm150 and Sm152 using the (p,tÎ³) reaction. Physical Review C, 2016, 94, .	2.9	6
23	Shape coexistence and the role of axial asymmetry in 72Ge. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 754, 254-259.	4.1	57
24	Magnetic moment and lifetime measurements of Coulomb-excited states in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Cd</mml:mi><mml:mprescripts /><mml:none /><mml:mn>106</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2016, 94, .	2.9	10
25	Examining the role of transfer coupling in sub-barrier fusion of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Ti</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>46</mml:mn><mml:mo>,</mml:mo><mml:mn>50</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo /><mml:none /><mml:mn>124</mml:mn></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review C, 2016, 94, .	2.9	22
26	Î³-ray decay from neutron-bound and unbound states inMo95and a novel technique for spin determination. Physical Review C, 2016, 93, .	2.9	5
27	First observation of low-energy<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math>-ray enhancement in the rare-earth region. Physical Review C, 2016, 93, .	2.9	45
28	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Z</mml:mi><mml:mo>=</mml:mo><mml:mn>50</mml:m stability in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Sn</mml:mi><mml:mprescripts /><mml:none /><mml:mn>110</mml:mn></mml:mmultiscripts></mml:math>from magnetic-moment and lifetime measurements. Physical Review C, 2016, 93, .	2.9	15
29	One-neutron transfer study ofXe137and systematics of13/21+and13/22+levels inN=83nuclei. Physical Review C, 2016, 94, .	2.9	5
30	Inelastic neutron scattering cross sections for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Ge</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>76</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>relevant to background in neutrinoless double-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math>decay experiment	2.9	6
31	Investigation into the semimagic nature of the tin isotopes through electromagnetic moments. Physical Review C, 2015, 92, .	2.9	44
32	Inelastic neutron scattering studies of76Ge and76Se: relevance to elevance to neutrinoless double-Î² decay. EPJ Web of Conferences, 2015, 93, 05001.	0.3	1
33	Direct reaction experimental studies with beams of radioactive tin ions. AIP Conference Proceedings, 2015, , .	0.4	0
34	Far From â€˜Easyâ€™ Spectroscopy with the 8Ï€ and GRIFFIN Spectrometers at TRIUMF-ISAC. Journal of Physics: Conference Series, 2015, 639, 012006.	0.4	14
35	Nuclear Structure Studies in the 132Sn Region: â€œSafe Coulexâ€• with Carbon Targets. Journal of Physics: Conference Series, 2015, 639, 012007.	0.4	3
36	Improved measurement of the half-life of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mi>J</mml:mi><mml:mi>Ï€</mml:mi></mml:msu isomer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Eu</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>152</mml:mn><mml:msub><mml:mi>m</mml:mi><mml:mn>2</mml:mn></mml:msub. Physical Review C, 2015, 91, .	2.9	2

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37	Recent Direct Reaction Experimental Studies with Radioactive Tin Beams. Acta Physica Polonica B, 2015, 46, 537.	0.8	3
38	Observation ofÎ³vibrations and alignments built on non-ground-state configurations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">Dy</mml:mi><mml:mprescripts /><mml:none /><mml:mn>156</mml:mn></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review C, 2015, 91, .	2.9	23
39	Ground-state and pairing-vibrational bands with equal quadrupole collectivity inXe124. Physical Review C, 2015, 91, .	2.9	15
40	Nuclear Structure of124Xe Studied with Î²+/EC-Decay. , 2015, , .		1
41	Investigating the Photon Strength Function to Discrete Levels. , 2015, , .		0
42	Photon strength and the low-energy enhancement. , 2014, , .		0
43	Double-Magic Nature of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Sn</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>132</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	7.8	47
44	Spectroscopy ofGd153andGd157using the(p,dÎ³)reaction. Physical Review C, 2014, 90, .	2.9	9
45	High-precision<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>B</mml:mi><mml:mo>(</mml:mo><mml:mi>E</mml:mi> of semi-magic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">Ni</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>58</mml:mn><mml:mo>,</mml:mo><mml:mn>60</mml:mn><mml:mo>,</mml:mo><mml:mn>62</mml:mn>	2.9	27
46	2Ï€1Î½states populated inTe135fromBe9-induced reactions with aSn132beam. Physical Review C, 2014, 90, .	2.9	10
47	Remnants of spherical shell structures in deformed nuclei: The impact of anN=64neutron subshell closure on the structure ofNâ‰ˆ90gadolinium nuclei. Physical Review C, 2013, 88, .	2.9	8
48	Simple correlations between electric quadrupole moments of atomic nuclei. Physical Review C, 2013, 88, .	2.9	8
49	Magnetic moments of 21+states in124,126,128Sn. Physical Review C, 2013, 87, .	2.9	27
50	Sub-barrier fusion enhancement with radioactive<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>134</mml:mn></mml:msup></mml:math>Te. Physical Review C, 2013, 87, .	2.9	18
51	Single-neutron levels near the N=82 shell closure. , 2013, , .		0
52	Direct-reaction studies by particle-Î³ coincidence spectroscopy using Csi-Hpge and Si-Hpge arrays. , 2013, ,		1
53	Electromagnetic properties of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msubsup><mml:mn>2</mml:mn><mml:mn>1</mml:mn><mml:mo>+</mml:mo></mml:msubsup></mml:math> in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>134</mml:mn></mml:msup></mml:math>Te: Influence of core excitation on single-particle orbits beyond<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow />	2.9	35
54	TRANSFER REACTION EXPERIMENTS WITH FISSION FRAGMENTS. , 2013, , .		0

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55	Statistical Î³rays in the analysis of surrogate nuclear reactions. Physical Review C, 2012, 85, .	2.9	8
56	Measurement of the entry-spin distribution imparted to the high excitation continuum region of gadolinium nuclei via (p,d) and (p,t) reactions. Physical Review C, 2012, 85, .	2.9	10
57	Spectroscopy of88Y by the (p,dÎ³) reaction. Physical Review C, 2012, 86, .	2.9	5
58	Indirect determination of neutron capture cross sections on spherical and near-spherical nuclei using the surrogate method. Physical Review C, 2012, 85, .	2.9	7
59	Fusion probability for neutron-rich radioactive-Sn-induced reactions. Physical Review C, 2012, 85, .	2.9	13
60	One-neutron transfer study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>135</mml:mn></mml:msup></mml:math>Te and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>137</mml:mn></mml:msup></mml:math>Xe by particle-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î³</mml:mi></mml:math>coincidence spectroscopy. The<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi></mml:math>factor and mean-life measurements with a rare isotope beam of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>126</mml:mn></mml:msup></mml:math>Sn.	2.9	25
61		2.9	28
62	Low-Energy Enhancement in the Photon Strength of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Mo</mml:mi><mml:mprescripts /><mml:none /><mml:mn>95</mml:mn></mml:mmultiscripts></mml:math>. Physical Review Letters, 2012, 108, 162503.	7.8	72
63	Coulomb excitation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mrow><mml:mn>124</mml:mn><mml:mo>,</mml:mo><mml:mn>126</mml:mn><mml:mo>,</mml:mo><mml:mn>128</mml:mn> Physical Review C, 2011, 84, .	2.9	55
64	Nuclear spectroscopy of the heaviest elements: studies of254No,257Rf, and261Sg. Journal of Physics: Conference Series, 2011, 312, 092017.	0.4	1
65	Near-Barrier Fusion of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Sn</mml:mi><mml:mo>+</mml:mo><mml:mi>Ni</mml:mi></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Te</mml:mi><mml:mo>+</mml:mo><mml:mi>Ni</mml:mi></mml:math>Systems: Examining the Correlation between Nucleon Transfer and Fusion Enhancement. Physical Review Letters, 2011, 107, 202701.	7.8	83
66	High-K multi-quasiparticle states in 254No. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 690, 19-24.	4.1	53
67	Electromagnetic decays of excited states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Sg</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>261</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>(<mml:math) Tj ETQq1 1 0.784314 rgBT /Ov	2.9	19
68	Publisherâ€™s Note: Electromagnetic decays of excited states in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Sg</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>261</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>(<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10	2.9	0
69	Particle-γ-ray coincidence spectroscopy of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î³</mml:mi></mml:mrow></mml:math> spectroscopy of the () Tj ETQq1 1 0.784314 rgBT /Ov	2.9	15
70	Measurement of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î³</mml:mi></mml:mrow></mml:math>-emission branching ratios for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Gd</mml:mi><mml:mprescripts /><mml:none	2.9	46
71	Fragment isomers populated via<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Mo</mml:mi><mml:mn>156</mml:mn><mml:mo>,</mml:mo><mml:mn>158</mml: mathvariant="normal">Li</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>6</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mi mathvariant="normal">Th</mml:mi><mml:mprescripts /><mml:none	2.9	21
72	Destructive interference of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>E</mml:mi><mml:mn>2</mml:mn></mml:mrow></mml:math>matrix elements in a triaxial rotor model. Physical Review C, 2010, 81, .	2.9	7

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73	determination of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Th</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>230</mml:mn></mml:mrow></mml:mmultiscripts></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo		