Kirby Kemper

List of Publications by Year
in descending order

125 papers	2,329 citations	218677 26 h-index	254184 43 g-index
125 all docs	125 docs citations	125 times ranked	1161 citing authors

#	Article	IF	Citations
1	Extracting the asymptotic normalization coefficient for the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mn>14</mml:mn></mml:mmultiscripts><mml:mo>â†’</mml:mo><mml:mmultiscripts><mml:mi mathvariant="normal">B</mml:mi><mml:mprescripts /><mml:none /><mml:mn>11</mml:mn></mml:mmultiscripts></mml:mrow></mml:math>	2.9	2
2	Low-lying resonances in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Si</mml:mi><mml:mprescripts /><mml:none /><mml:mn>26</mml:mn></mml:mmultiscripts></mml:math> relevant for the determination of the astrophysical <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Al</mml:mi><mml:mprescripts /><mml:none		

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19	Measurement of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>d</mml:mi><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mrow><mml:mi>Be</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> Cross Sections for Big-Bang Nucleosynthesis. Physical Review Letters, 2019, 122, 182701.	7.8	12
20	Measurement and analysis of 10B +12C elastic scattering at energy of 41.3MeV. International Journal of Modern Physics E, 2019, 28, 1950028.	1.0	5
21	Sub-Coulomb <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>3</mml:mn></mml:mmultiscripts></mml:math> transfer and its use to extract three-particle asymptotic normalization coefficients. Physical Review C, 2018, 97, .	2.9	1
22	Interaction of He8 with Pb208 at near-barrier energies: He4 and He6 production. Physical Review C, 2018, 98, .	2.9	10
23	Cluster folding analysis of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="bold">Ne</mml:mi><mml:mprescripts /><mml:none /><mml:mn>20</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mi mathvariant="bold">O</mml:mi><mml:mprescripts /><mml:none /><mml:mn>16</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> elastic transfer. Physical Rev	2.9	7
24	A cautionary tale: The Coulomb modified ANC for the 1/2+2 state in 17O. European Physical Journal A, 2018, 54, 1.	2.5	6
25	Influence of single-neutron stripping on near-barrier <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>6</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mi>Pb</mml:mi><mml:mprescripts /><mml:none /><mml:mn>208</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> and <mml:math	2.9	7
26	Quadrupole collectivity beyond <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>50</mml:mn></mml:m in neutron-rich Se and Kr isotopes. Physical Review C, 2017, 96, .	2.9	15
27	Quasiparticle 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 /Ove	2.9	2
28	Spectroscopy of Ti54 and the systematic behavior of low-energy octupole states in Ca and Ti isotopes. Physical Review C, 2017, 96, .	2.9	3
29	Precise measurement of near-barrier <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>8</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mi>Pb</mml:mi><mml:mprescripts /><mml:none /><mml:mn>208</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> elastic scattering: Comparison with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:m	2.9	15
30	Octupole strength in the neutron-rich calcium isotopes. Physical Review C, 2016, 93, .	2.9	6
31	Strong multistep interference effects inC12(d,p)to the9/21+state inC13. Physical Review C, 2015, 92, .	2.9	3
32	Single particle strengths and mirror states in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">N</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>15</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo>â^’</mml:mo><mml:mmultiscripts><mml:mi mathvariant="normal">O</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>15</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>below	2.9	7
33	Neutron single-particle strength in silicon isotopes: Constraining the driving forces of shell evolution. Physical Review C, 2015, 91, .	2.9	12
34	Effect of the exit reaction channels on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">Li</mml:mi><mml:mprescripts /><mml:none /><mml:mn>6</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mi mathvariant="normal">O</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>18</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>asymptotic normalization coefficient of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mn>1</mml:mn><mml:mo /></mml:mn> <mml:mi in<mml:math	2.9	5
35	Constraining the 6.05ÂMeV<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mn>0</mml:mn></mml:mrow><mml:mrow><mml:mo>+</mml:mo></mml:mr 6.13ÂMeV<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mn>3</mml:mn></mml:mrow><mml:mrow><mml:mo>â^’</mml:mo></mml:m Transitions in the<mml:math xmlns:mml="http://www.w3.org/. Physical Review Letters, 2015, 114, 071101.	7.8	41

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37	Inverse-kinematics proton scattering on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Ca</mml:mi><mml:mprescripts /><mml:none /><mml:mn>50</mml:mn></mml:mmultiscripts></mml:math>: Determining effective charges using complementary probes. Physical Review C, 2014, 90, .	2.9	17
38	Strong coupling effects in near-barrier heavy-ion elastic scattering. European Physical Journal A, 2014, 50, 1.	2.5	36
39	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math>-cluster structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">O</mml:mi><mml:mprescripts /><mml:none /><mml:mn>18</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2014, 90, .	2.9	42
40	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math>-cluster asymptotic normalization coefficients for nuclear astrophysics. Physical Review C, 2014, 90, .	2.9	8
41	Single-particle structure of silicon isotopes approachingSi42. Physical Review C, 2014, 90, .	2.9	49
42	Elastic and inelastic scattering of 14N ions by 7Li at 80 MeV (c.m. 26.7 MeV). European Physical Journal A, 2014, 50, 1.	2.5	1
43	Elastic and inelastic scattering of 14C + 11B versus 12,13C + 11B. European Physical Journal A, 2014, 50, 1.	2.5	10
44	T20Tanalyzing powers fromC12(Li7,Î±)N15. Physical Review C, 2014, 90, .	2.9	0
45	Energy dependence of the 6Li + 16O elastic scattering versus that of 7Li + 16O. European Physical Journal A, 2013, 49, 1.	2.5	3
46	Dynamic polarization potentials and dipole polarizabilities of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>11</mml:mn></mml:msup></mml:math>Li,<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>6</mml:mn></mml:msup></mml:math>He and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>8</mml:mn></mml:msup></mml:math>B from elastic and inelastic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>7</mml:mn></mml:msup></mml:math>Be+<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î³</mml:mi></mml:math>-ray spectroscopy of one-proton knockout from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>45</mml:mn></mml:msup></mml:math>Cl. Physical Review C, 2012, 86, .	2.9	13
47		2.9	14
48		2.9	7
49		2.9	2
50	Elastic and inelastic scattering of 14C + 18O versus 12, 13C + 18O and 14C + 16O. European Physical Journal A, 2011, 47, 1.	2.5	9
51	Comparison of theLi7(O18,N17)Be8andO18(d,He3)N17reactions. Physical Review C, 2011, 83, .	2.9	6
52	In-beam<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î³</mml:mi></mml:mrow></mml:math>-ray spectroscopy of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Mg</mml:mi><mml:mprescripts /><mml:none /><mml:mn>35</mml:mn></mml:mmultiscripts></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	2.9	21
53	Triple configuration coexistence in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">S</mml:mi><mml:mprescripts /><mml:none /><mml:mn>44</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2011, 83, .	2.9	64
54	Isotopic effects in elastic and inelastic 12C + 16, 18O scattering. European Physical Journal A, 2010, 44, 221-231.	2.5	14

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55	Low-lying states in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">B</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>8</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Review C, 2010, 82, .	2.9	15
56	Strong nuclear couplings as a source of Coulomb rainbow suppression. Physical Review C, 2010, 82, .	2.9	24
57	Si25andS29studied via single neutron knockout reactions. Physical Review C, 2010, 81, .	2.9	15
58	Resonance scattering and Î±-transfer reactions for nuclear astrophysics. , 2010, , .		9
59	Rotational and neutron-hole states in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">S</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>43</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>via the neutron knockout and fragmentation reactions. Physical Review C, 2009, 80, .	2.9	15
60	Be8scattering potentials from reaction analyses. Physical Review C, 2009, 79, .	2.9	9
61	Selectivity of the one-neutron knockout reaction on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Cl</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>45</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>and the collapse of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>28</mml:mn></mml:mrow></mml:math>shell	2.9	14
62	Comparison of 7Li , 7Be + 9Be elastic scattering in the coupled-reaction-channels approach. European Physical Journal A, 2009, 41, 31-37.	2.5	3
63	Extreme $ alpha$ -clustering in the 18O nucleus. European Physical Journal A, 2009, 42, 135.	2.5	36
64	Survey of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">O</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>17</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>excited states derived from the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Ar</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>27</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>isotone	2.9	3
65	Lifetime measurements in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Ar</mml:mi><mml:mprescripts /><mml:none />		

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73	Evolution of theE(1/21+)â^'E(3/21+)energy spacing in odd-mass K, Cl, and P isotopes forN=20â^'28. Physical Review C, 2006, 74, .	2.9	46
74	Population of bound excited states in intermediate-energy fragmentation reactions. Physical Review C, 2006, 73, .	2.9	11
75	Two-neutron knockout from neutron-deficientAr34,S30, andSi26. Physical Review C, 2006, 74, .	2.9	58
76	Production cross sections for heavy-ion fragmentation reactions on a liquid deuterium target at intermediate energies. Physical Review C, 2006, 74, .	2.9	11
77	Spectroscopic factors in exotic nuclei from nucleon-knockout reactions. European Physical Journal A, 2005, 25, 251-253.	2.5	11
78	Li7+B11elastic and inelastic scattering in a coupled-reaction-channels approach. Physical Review C, 2005, 72, .	2.9	31
79	Knockout fromAr46:â„“=3neutron removal and deviations from eikonal theory. Physical Review C, 2005, 71, .	2.9	63
80	Thick-target inverse-kinematics proton scattering fromAr46and theN=28shell belowCa48. Physical Review C, 2005, 72, .	2.9	28
81	Fabrication of a modular neutron array: A collaborative approach to undergraduate research. American Journal of Physics, 2005, 73, 122-126.	0.7	5
82	One-neutron knockout reactions on proton-rich nuclei withN=16. Physical Review C, 2004, 69, .	2.9	53
83	Detailed experimental study on intermediate-energy Coulomb excitation of46Ar. Physical Review C, 2003, 68, .	2.9	55
84	Lifetime of the21+state and densities for the0g.s.+â†'21+transition inNe18. Physical Review C, 2003, 68, .	2.9	10
85	MoNA â€" The Modular Neutron Array at the NSCL. AIP Conference Proceedings, 2003, , .	0.4	1
86	HIGH-RESOLUTION GAMMA-RAY SPECTROSCOPY WITH FAST EXOTIC BEAMS. , 2003, , .		0
87	Transition to the â€œisland of inversionâ€• Fast-beamÎ³-ray spectroscopy of28,30Na. Physical Review C, 2002, 66, .	2.9	26
88	Structure of the â€œisland of inversionâ€•nucleus33Mg. Physical Review C, 2002, 65, .	2.9	25
89	Structure of neutron-rich s-d shell nuclei. Physics of Atomic Nuclei, 2002, 65, 713-719.	0.4	3
90	B(E2;0g.s.+â†'21+)in26Siand mirror symmetry in theA=26system. Physical Review C, 2001, 64, .	2.9	14

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91	5He+Î±cluster model of9Bebreakup. Physical Review C, 2001, 64, .	2.9	21
92	Shape coexistence on the boundary of the â€œisland of inversionâ€• Exotic beam spectroscopy of34Al. Physical Review C, 2001, 63, .	2.9	19
93	LOW-LYING COLLECTIVE STATES IN UNSTABLE ³⁰S AND ³⁴AR NUCLEI VIA PROTON SCATTERING. , 2001, , .		0
94	NUCLEAR STRUCTURE STUDIES OF FAST EXOTIC BEAMS WITH Î³-RAY DETECTOR ARRAYS. , 2001, , .		0
95	Proton scattering by the unstable neutron-rich isotopes42,44Ar. Physical Review C, 2000, 63, .	2.9	29
96	Î±breakup of6Liand7Linear the Coulomb barrier. Physical Review C, 2000, 63, .	2.9	90
97	Single-particle structure along the boundary of the â€œisland of inversionâ€• Radioactive beam spectroscopy of33Siand34P. Physical Review C, 2000, 62, .	2.9	17
98	B(E2;0g.s.+â†'21+)in18Neand isospin purity inA=18nuclei. Physical Review C, 2000, 62, .	2.9	11
99	Conversion electron-Î³coincidences and intrinsic reflection asymmetry in219Ra. Physical Review C, 2000, 62, .	2.9	8
100	First observation of an excited state in the neutron-rich nucleus31Na. Physical Review C, 2000, 63, .	2.9	75
101	Studies of the D state of [sup 6]Li using the FSU polarized [sup 6]Li Beam. , 1999, , .		0
102	Proton scattering on radioactive proton sd-shell nuclei and comparison to Coulomb excitation. , 1999, , .		0
103	Intermediate-energy Coulomb excitation of [sup 28,29,30,31]Na. , 1999, , .		0
104	Proton scattering from the unstable neutron-rich nucleus43Ar. Physical Review C, 1999, 60, .	2.9	14
105	Determination of the asymptoticD- toS-state ratio for6Livia(6Liâ†',d)transfer reactions. Physical Review C, 1999, 60, .	2.9	9
106	The0g.s.+â†'21+transition in38Caand isospin symmetry inA=38nuclei. Physical Review C, 1999, 60, .	2.9	28
107	Three-particle cluster structure aboveEx=11â€,MeVin15N. Physical Review C, 1999, 60, .	2.9	5
108	Inverse Kinematics Proton Scattering onN18eand Mirror Symmetry inA=18Nuclei. Physical Review Letters, 1999, 82, 4196-4199.	7.8	14

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109	Proton scattering by short lived sulfur isotopes. Physical Review C, 1999, 60, .	2.9	55
110	Deformation Effects inL6i. Physical Review Letters, 1998, 81, 1187-1190.	7.8	11
111	Quadrupole Collectivity in32,34,36,38Siand theN=20Shell Closure. Physical Review Letters, 1998, 80, 2081-2084.	7.8	138
112	Inelastic proton scattering on the radioactive nuclei. , 1998, , .		0
113	Mass dependence of the effective isovector charge in the sd-shell. , 1998, , .		0
114	Continuum-discretized coupled-channels analysis of6Liâ†'+4Hescattering atEc.m.=11.1MeV. Physical Review C, 1997, 56, 1895-1901.	2.9	21
115	Proton scattering on the unstable38Snucleus: Isovector contribution to the21+state. Physical Review C, 1997, 56, R1206-R1209.	2.9	36
116	Interactions obtained from precision polarized [sup 6]Li scattering experiments. , 1997, , .		0
117	Inelastic proton scattering on Neutron-Rich sulphur isotopes. Acta Physica Hungarica A Heavy Ion Physics, 1997, 6, 177-187.	0.4	1
118	Nuclear structure of neutron-rich78As. Zeitschrift FÃ¼r Physik A, 1996, 354, 345-346.	0.9	8
119	New Region of Deformation: The Neutron-Rich Sulfur Isotopes. Physical Review Letters, 1996, 77, 3967-3970.	7.8	255
120	Role ofh 11/2 protons in144Pm. Zeitschrift FÃ¼r Physik A, 1993, 345, 119-120.	0.9	4
121	Isolation properties and experimental ranges of high energy ions in GaAs and InP. Journal of Applied Physics, 1992, 71, 2663-2668.	2.5	5
122	Li7+12C: Excitation of projectile and target states and single-nucleon stripping. Physical Review C, 1986, 33, 915-925.	2.9	23
123	Inelastic scattering and excitation ofLi6. Physical Review C, 1985, 31, 879-887.	2.9	28
124	Quadrupole effects inLi7scattering at 88 MeV. Physical Review C, 1983, 27, 1536-1539.	2.9	9
125	Inelastic scattering ofB11fromCa40. Physical Review C, 1981, 23, 236-239.	2.9	12