

# Kirby Kemper

## List of Publications by Year in descending order

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Version: 2024-02-01

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
19	Extreme $\alpha$ -clustering in the $^{18}\text{O}$ nucleus. European Physical Journal A, 2009, 42, 135.	2.5	36
20	Strong coupling effects in near-barrier heavy-ion elastic scattering. European Physical Journal A, 2014, 50, 1.	2.5	36
21	$^{7}\text{Li}+^{11}\text{B}$ elastic and inelastic scattering in a coupled-reaction-channels approach. Physical Review C, 2005, 72, .	2.9	31
22	New measurement of the asymptotic normalization coefficient of the $^{13}\text{C}$ in $^{14}\text{C}$ . Physical Review C, 2009, 79, .	2.9	30
23	Proton scattering by the unstable neutron-rich isotopes $^{42,44}\text{Ar}$ . Physical Review C, 2000, 63, .	2.9	29
24	Inelastic scattering and excitation of $^{6}\text{Li}$ . Physical Review C, 1985, 31, 879-887.	2.9	28
25	The $^{0}\text{g.s.}+\hat{\alpha}^{21}$ transition in $^{38}\text{Ca}$ and isospin symmetry in $A=38$ nuclei. Physical Review C, 1999, 60, .	2.9	28
26	Thick-target inverse-kinematics proton scattering from $^{46}\text{Ar}$ and the $N=28$ shell below $^{48}\text{Ca}$ . Physical Review C, 2005, 72, .	2.9	28
27	Transition to the "island of inversion" nucleus $^{28,30}\text{Na}$ . Physical Review C, 2002, 66, .	2.9	26
28	Structure of the "island of inversion" nucleus $^{33}\text{Mg}$ . Physical Review C, 2002, 65, .	2.9	25
29	Shell structure and hole strength in neutron-rich $^{43}\text{Mg}$ . Physical Review C, 2008, 78, .	2.9	25
30	Strong nuclear couplings as a source of Coulomb rainbow suppression. Physical Review C, 2010, 82, .	2.9	24
31	$^{7}\text{Li}+^{12}\text{C}$ : Excitation of projectile and target states and single-nucleon stripping. Physical Review C, 1986, 33, 915-925.	2.9	23
32	Continuum-discretized coupled-channels analysis of $^{6}\text{Li}+\hat{\alpha}+^4\text{He}$ scattering at $E_{\text{c.m.}}=11.1\text{MeV}$ . Physical Review C, 1997, 56, 1895-1901.	2.9	21
33	$^5\text{He}+\hat{\alpha}$ cluster model of $^9\text{Be}$ breakup. Physical Review C, 2001, 64, .	2.9	21
34	In-beam $^{13}\text{C}$ -ray spectroscopy of $^{35}\text{Mg}$ . Physical Review C, 2001, 63, .	2.9	21
35	Shape coexistence on the boundary of the "island of inversion" nucleus $^{34}\text{Al}$ . Exotic beam spectroscopy of $^{34}\text{Al}$ . Physical Review C, 2001, 63, .	2.9	19
36	Single-particle structure along the boundary of the "island of inversion" nucleus $^{33}\text{Si}$ and $^{34}\text{P}$ . Physical Review C, 2000, 62, .	2.9	17

#	ARTICLE	IF	CITATIONS
37	Inverse-kinematics proton scattering on $^{20}\text{Ca}$ : Determining effective charges using rotational and neutron-hole states in $^{20}\text{Si}$ . Physical Review C, 2011, 83, .	2.9	17
38	Rotational and neutron-hole states in $^{43}\text{Ca}$ via the neutron knockout and fragmentation reactions. Physical Review C, 2009, 80, .	2.9	15
39	Low-lying states in $^{8}\text{B}$ . Physical Review C, 2010, 82, .	2.9	15
40	$^{25}\text{Si}$ and $^{29}\text{Si}$ studied via single neutron knockout reactions. Physical Review C, 2010, 81, .	2.9	15
41	Precise measurement of near-barrier elastic scattering: Comparison with $^{208}\text{Pb}$ . Physical Review C, 2010, 81, .	2.9	15
42	Quadrupole collectivity beyond $^{50}\text{Ni}$ in neutron-rich Se and Kr isotopes. Physical Review C, 2017, 96, .	2.9	15
43	Is the Structure of $^{42}\text{Si}$ Understood? Physical Review Letters, 2019, 122, 222501.	7.8	15
44	Proton scattering from the unstable neutron-rich nucleus $^{43}\text{Ar}$ . Physical Review C, 1999, 60, .	2.9	14
45	Inverse Kinematics Proton Scattering on $^{18}\text{O}$ and Mirror Symmetry in $A=18$ Nuclei. Physical Review Letters, 1999, 82, 4196-4199.	7.8	14
46	$B(E2; 0g.s. \rightarrow 2^+)$ in $^{26}\text{Si}$ and mirror symmetry in the $A=26$ system. Physical Review C, 2001, 64, .	2.9	14
47	Selectivity of the one-neutron knockout reaction on $^{45}\text{Cl}$ and the collapse of the $^{28}\text{N}$ shell. European Physical Journal A, 2010, 44, 221-231.	2.9	14
48	Isotopic effects in elastic and inelastic $^{12}\text{C} + ^{16}\text{O}$ scattering. European Physical Journal A, 2010, 44, 221-231.	2.5	14
49	Structure of $^{28}\text{N}$ . Physical Review C, 2010, 82, .	2.9	14
50	Dynamic polarization potentials and dipole polarizabilities of $^{11}\text{Li}$ and $^{6}\text{He}$ and $^{42}\text{Ca}$ . Physical Review C, 2010, 82, .	2.9	13
51	Dynamic polarization potentials and dipole polarizabilities of $^{42}\text{Ca}$ . Physical Review C, 2010, 82, .	2.9	13
52	Inelastic scattering of $^{11}\text{B}$ from $^{40}\text{Ca}$ . Physical Review C, 1981, 23, 236-239.	2.9	12
53	Neutron single-particle strength in silicon isotopes: Constraining the driving forces of shell evolution. Physical Review C, 2015, 91, .	2.9	12
54	Measurement of $d\sigma/d\Omega$ for $^{7}\text{Li} + ^{9}\text{Be}$ Cross Sections for Big-Bang Nucleosynthesis. Physical Review Letters, 2019, 122, 182701.	7.8	12

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55	Deformation Effects in $^{6}\text{Li}$ . Physical Review Letters, 1998, 81, 1187-1190.	7.8	11
56	$B(E2; 0g.s. \rightarrow 2^+_1)$ in $^{18}\text{Ne}$ and isospin purity in $A=18$ nuclei. Physical Review C, 2000, 62, .	2.9	11
57	Spectroscopic factors in exotic nuclei from nucleon-knockout reactions. European Physical Journal A, 2005, 25, 251-253.	2.5	11
58	Population of bound excited states in intermediate-energy fragmentation reactions. Physical Review C, 2006, 73, .	2.9	11
59	Production cross sections for heavy-ion fragmentation reactions on a liquid deuterium target at intermediate energies. Physical Review C, 2006, 74, .	2.9	11
60	Lifetime of the $2^+_1$ state and densities for the $0g.s. \rightarrow 2^+_1$ transition in $^{18}\text{Ne}$ . Physical Review C, 2003, 68, .	2.9	10
61	Elastic and inelastic scattering of $^{14}\text{C} + ^{11}\text{B}$ versus $^{12,13}\text{C} + ^{11}\text{B}$ . European Physical Journal A, 2014, 50, 1.	2.5	10
62	Interaction of $^4\text{He}$ with $^{208}\text{Pb}$ at near-barrier energies: $^4\text{He}$ and $^6\text{He}$ production. Physical Review C, 2018, 98, .	2.9	10
63	Shell structure of $^{54}\text{Fe}$ and collapse of the $N=28$ shell closure. Physical Review C, 2020, 102, .	2.9	10
64	Experimental study of the $^{17}\text{F} + ^{12}\text{C} \rightarrow ^{13}\text{C} + ^4\text{He}$ fusion reaction and its implications for $^{12}\text{C} + ^{17}\text{O}$ scattering at 88 MeV. Physical Review C, 1983, 27, 1536-1539.	2.9	10
65	Quadrupole effects in $^7\text{Li}$ scattering at 88 MeV. Physical Review C, 1983, 27, 1536-1539.	2.9	9
66	Determination of the asymptotic $D^-$ to $S^-$ state ratio for $^6\text{Li}(\alpha, d)$ transfer reactions. Physical Review C, 1999, 60, .	2.9	9
67	Tensor analyzing powers and energy dependence of the $^7\text{Li} + ^{16}\text{O}$ interaction. Physical Review C, 2007, 75, .	2.9	9
68	Isotopic effects in the $^7\text{Li} + ^{10,11}\text{B}$ elastic and inelastic scattering. European Physical Journal A, 2007, 33, 317-325.	2.5	9
69	$^8\text{Be}$ scattering potentials from reaction analyses. Physical Review C, 2009, 79, .	2.9	9
70	Resonance scattering and $\alpha$ -transfer reactions for nuclear astrophysics. , 2010, , .		9
71	Elastic and inelastic scattering of $^{14}\text{C} + ^{18}\text{O}$ versus $^{12,13}\text{C} + ^{18}\text{O}$ and $^{14}\text{C} + ^{16}\text{O}$ . European Physical Journal A, 2011, 47, 1.	2.5	9
72	Nuclear structure of neutron-rich $^{78}\text{As}$ . Zeitschrift für Physik A, 1996, 354, 345-346.	0.9	8



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91	Multistep processes in heavy-ion-induced single-nucleon transfer reactions. Physical Review C, 2020, 102.	2.9	4
92	Low-lying resonances in $^{26}\text{Si}$ relevant for the determination of the astrophysical $^{26}\text{Al}$		

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109	Sub-Coulomb $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{He} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ transfer and its use to extract three-particle asymptotic normalization coefficients. <i>Physical Review C</i> , 2018, 97, .	2.9	1
110	Jacque Raynal, ECIS, and $\langle \text{math} \rangle M_n/M_p \langle \text{math} \rangle$ values in radioactive nuclei. <i>European Physical Journal A</i> , 2020, 56, 1.	2.5	1
111	Influence of halo single-neutron transfer on near barrier $\langle \text{math} \rangle \langle \text{math} \rangle + \langle \text{math} \rangle \langle \text{math} \rangle$ total fusion. <i>European Physical Journal A</i> , 2021, 57, 1.	2.5	1
112	Inelastic proton scattering on Neutron-Rich sulphur isotopes. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 1997, 6, 177-187.	0.4	1
113	Interactions obtained from precision polarized $\langle \text{sup} 6 \rangle \text{Li}$ scattering experiments. , 1997, , .		0
114	Inelastic proton scattering on the radioactive nuclei. , 1998, , .		0
115	Mass dependence of the effective isovector charge in the sd-shell. , 1998, , .		0
116	Studies of the D state of $\langle \text{sup} 6 \rangle \text{Li}$ using the FSU polarized $\langle \text{sup} 6 \rangle \text{Li}$ Beam. , 1999, , .		0
117	Proton scattering on radioactive proton sd-shell nuclei and comparison to Coulomb excitation. , 1999, , .		0
118	Intermediate-energy Coulomb excitation of $\langle \text{sup} 28,29,30,31 \rangle \text{Na}$ . , 1999, , .		0
119	T20Analyzing powers from $\langle \text{C}12(\text{Li}7, \hat{1}^\pm)\text{N}15$ . <i>Physical Review C</i> , 2014, 90, .	2.9	0
120	Important Influence of Entrance Channel Reorientation Coupling on Proton Stripping. <i>European Physical Journal A</i> , 2020, 56, 1.	2.5	0
121	LOW-LYING COLLECTIVE STATES IN UNSTABLE $\langle \text{sup} 30 \rangle \langle \text{font} \rangle \text{S} \langle \text{font} \rangle$ AND $\langle \text{sup} 34 \rangle \langle \text{font} \rangle \text{AR} \langle \text{font} \rangle$ NUCLEI VIA PROTON SCATTERING. , 2001, , .		0
122	NUCLEAR STRUCTURE STUDIES OF FAST EXOTIC BEAMS WITH $\hat{1}^3$ -RAY DETECTOR ARRAYS. , 2001, , .		0
123	HIGH-RESOLUTION GAMMA-RAY SPECTROSCOPY WITH FAST EXOTIC BEAMS. , 2003, , .		0
124	STUDIES OF EXOTIC SYSTEMS USING TRANSFER REACTIONS AT GANIL. , 2008, , .		0
125	STRUCTURE AND LOW-LYING STATES OF THE $\langle \text{sup} 8 \rangle \langle \text{font} \rangle \text{HE} \langle \text{font} \rangle$ EXOTIC NUCLEUS VIA DIRECT REACTIONS ON PROTON. , 2008, , .		0