

K L Jones

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

2,442
citations

236925

25
h-index

206112

48
g-index

115
all docs

115
docs citations

115
times ranked

1522
citing authors

#	ARTICLE	IF	CITATIONS
1	Nuclear symmetry energy and neutron skins derived from pygmy dipole resonances. Physical Review C, 2007, 76, .	2.9	334
2	Evidence for Pygmy and Giant Dipole Resonances in Sn130 and Sn132. Physical Review Letters, 2005, 95, 132501.	7.8	327
3	The magic nature of ^{132}Sn explored through the single-particle states of ^{133}Sn . Nature, 2010, 465, 454-457.	27.8	189
4	Exclusive measurement of breakup reactions with the one-neutron halo nucleus ^{11}Be . Physical Review C, 2003, 68, .	2.9	154
5	Halo Structure of ^{14}Be . Physical Review Letters, 2001, 86, 600-603.	7.8	91
6	ISOL science at the Holifield Radioactive Ion Beam Facility. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 024002.	3.6	85
7	Halo Nucleus ^{11}Be : A Spectroscopic Study via Neutron Transfer. Physical Review Letters, 2012, 108, 192701.	7.8	79
8	Direct reaction measurements with a ^{132}Sn radioactive ion beam. Physical Review C, 2011, 84, .	2.9	62
9	Neutron Single Particle Structure in ^{131}C and Direct Neutron Capture Cross Sections. Physical Review Letters, 2012, 109, 172501.	7.8	58
10	^{14}C observed in the ^{4}He reaction and primordial ^{4}He fusion of radioactive ^{132}Sn with ^{64}Ni . Physical Review C, 2007, 75, .	2.9	57
11	Fusion of radioactive ^{132}Sn with ^{64}Ni . Physical Review C, 2007, 75, .	2.9	49
12	First study of the level structure of the r-process nucleus ^{83}Ge . Physical Review C, 2005, 71, .	2.9	48
13	Single-neutron excitations in neutron-rich ^{83}Ge and ^{85}Se . Physical Review C, 2007, 76, .	2.9	47
14	Double-Magic Nature of ^{132}Sn and ^{132}Te . Physical Review Letters, 2007, 99, 172501.	7.8	47
15	Observation of Fermi Superallowed $I^{\pi} = 2^+$ Decays in Heavy Odd-Odd, $N = Z$ Nuclei: Evidence for 0^+ Ground States in ^{78}Y , ^{82}b , and ^{86}c . Physical Review Letters, 1998, 81, 3337-3340.	7.8	40
16	Search for a resonant enhancement of the $^{7}\text{Be} + \text{d}$ reaction and primordial ^{4}He sensitivity studies for the weak r process: neutron capture rates. AIP Advances, 2014, 4, .	2.9	39
17	Sensitivity studies for the weak r process: neutron capture rates. AIP Advances, 2014, 4, .	1.3	39
18	Astrophysically important ^{26}Si states studied with the $^{28}(\text{p},\text{t})^{26}\text{Si}$ reaction. II. Spin of the 5.914-MeV ^{26}Si level and galactic ^{26}Al production. Physical Review C, 2006, 74, .	2.9	38

#	ARTICLE	IF	CITATIONS
19	Reactions of ^{10}Be on proton and deuteron targets. Physical Review C, 2013, 88, .	2.9	36
20	^4He decay of excited states in ^{14}C . Physical Review C, 2003, 68, .	2.9	35
21	Astrophysically important $^3\text{S}_1$ states studied with the $^3\text{S}_2(p,d)^3\text{S}_1$ reaction. Physical Review C, 2007, 76, .	2.9	34
22	First proton-transfer study of ^{18}F resonances $^{18}\text{F} + ^3\text{He} \rightarrow ^{20}\text{Ne} + p$. Physical Review C, 2011, 83, .	2.9	33
23	Measurement of the ^{18}F resonances $^{18}\text{F} + ^3\text{He} \rightarrow ^{20}\text{Ne} + p$. Physical Review C, 2011, 83, .	2.9	28
24	Measurement of the 183 keV resonance in $^{17}\text{O}(p,^1\text{H})^{14}\text{N}$ using a novel technique. Physical Review C, 2007, 75, .	2.9	27
25	Constraint of the Astrophysical $^{26}\text{Mg} + ^3\text{He} \rightarrow ^{29}\text{Si} + p$ reaction. Physical Review C, 2011, 83, .	7.8	27
26	Study of the $^{\text{Sn}}(d,p)^{\text{Sn}}$ reaction in inverse kinematics close to the Coulomb barrier. Physical Review C, 2004, 70, .	2.9	23
27	Fragmentation of unstable neutron-rich oxygen beams. Physical Review C, 2002, 65, .	2.9	20
28	Single-nucleon transfer reactions on ^{18}F . Physical Review C, 2011, 84, .	2.9	20
29	White paper on nuclear astrophysics and low-energy nuclear physics, Part 2: Low-energy nuclear physics. Progress in Particle and Nuclear Physics, 2017, 94, 68-124.	14.4	20
30	Search for molecular states in ^{16}C . Journal of Physics G: Nuclear and Particle Physics, 2001, 27, B9-B14.	7.8	20
31	Search for molecular states in ^{16}C . Journal of Physics G: Nuclear and Particle Physics, 2001, 27, B9-B14.	2.9	19
32	Search for molecular states in ^{16}C . Journal of Physics G: Nuclear and Particle Physics, 2001, 27, B9-B14.	3.6	18
33	Spectroscopic study of low-lying ^{16}C levels. Physical Review C, 2008, 78, .	2.9	18
34	Search for analog molecular chain states in ^{16}C . Physical Review C, 2002, 66, .	2.9	17
35	Direct Reaction Measurements Using GODDESS. Physics Procedia, 2017, 90, 455-462.	1.2	16
36	Breakup measurements of particle unbound states in ^{10}B . Physical Review C, 2001, 63, .	2.9	14

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37	knockout of ^{12}Be populating neutron-unbound states in ^{19}Ne levels studied with the $^{18}\text{F}(d,n)^{19}\text{Ne}^*(^{18}\text{F}+p)$ reaction. Physical Review C, 2012, 85, .	2.9	14
38	19Ne levels studied with the $^{18}\text{F}(d,n)^{19}\text{Ne}^*(^{18}\text{F}+p)$ reaction. Physical Review C, 2012, 85, .	2.9	14
39	Coupling Gammasphere and ORRUBA. , 2013, , .		10
40	Transfer reaction experiments with radioactive beams: from halos to the r-process. Physica Scripta, 2013, T152, 014020.	2.5	10
41	$2\frac{1}{2}^+$ states populated in ^{135}Te from ^{9}Be -induced reactions with a ^{132}Sn beam. Physical Review C, 2014, 90, .	2.9	10
42	Informing direct neutron capture on tin isotopes near the N=82 shell closure. Physical Review C, 2019, 99, .	2.9	10
43	Direct studies of low-energy resonances in $^{31}\text{P}(p, \hat{1}\pm)^{28}\text{Si}$ and $^{35}\text{Cl}(p, \hat{1}\pm)^{32}\text{S}$. European Physical Journal A, 2011, 47, 1.	2.5	9
44	Structure of ^{107}Sn studied through single-neutron knockout reactions. Physical Review C, 2016, 93, .	2.9	9
45	Key ^{19}Ne States Identified Affecting $\hat{1}^3$ -Ray Emission from F18 in Novae. Physical Review Letters, 2019, 122, 052701.	7.8	9
46	Constraining spectroscopic factors near the r-process path using combined measurements: ^{86}Kr		

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55	$\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Ne} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 19 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ level structure for explosive nucleosynthesis. <i>Physical Review C</i> , 2020, 102, .	2.9	5
56	Studies of light neutron-rich nuclei near the drip line. <i>European Physical Journal A</i> , 2005, 25, 339-341.	2.5	4
57	^{26}Al +p elastic and inelastic scattering reactions and galactic abundances of ^{26}Al . <i>Physical Review C</i> , 2012, 85, .	2.9	4
58	Searching for resonances in the unbound ^6Be nucleus by using a radioactive ^7Be beam. <i>Journal of the Korean Physical Society</i> , 2012, 61, 1786-1791.	0.7	4
59	$\langle \text{mml:mrow} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Ne} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 20 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ reactions using the JENSA gas-jet target to constrain the astrophysical $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle$ $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle$ $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle$	4	4
60	X-ray burst studies with the JENSA gas jet target. <i>EPJ Web of Conferences</i> , 2017, 165, 01043.	0.3	4
61	Development of an array of liquid-scintillator-based bar detectors: SABRE. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 908, 189-197.	1.6	4
62	$\hat{\text{I}}^{\beta}$ -ray spectroscopy of astrophysically important states in Ca^{39} . <i>Physical Review C</i> , 2020, 101, .	2.9	4
63	Single-neutron excitations in neutron-rich $N = 51$ nuclei. <i>European Physical Journal A</i> , 2005, 25, 371-374.	2.5	3
64	Measurement of evaporation residue cross sections from reactions with radioactive neutron-rich beams. <i>European Physical Journal A</i> , 2005, 25, 241-242.	2.5	3
65	Development of the ORRUBA Silicon Detector Array. , 2009, , .		3
66	Single-particle structure of neutron-rich nuclei. <i>Journal of Physics: Conference Series</i> , 2010, 239, 012007.	0.4	3
67	Development of the superorruba detector array and the measurement of single particle states in [⁸¹ Ge. , 2013, , .		3
68	Recent Direct Reaction Experimental Studies with Radioactive Tin Beams. <i>Acta Physica Polonica B</i> , 2015, 46, 537.	0.8	3
69	Particle decay of astrophysically-important ^{19}Ne levels. <i>Journal of Physics: Conference Series</i> , 2019, 1308, 012004.	0.4	3
70	DEVELOPMENT OF ORRUBA: A SILICON ARRAY FOR THE MEASUREMENT OF TRANSFER REACTIONS IN INVERSE KINEMATICS. , 2008, , .		3
71	Use of Bayesian Optimization to understand the structure of nuclei. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2022, 512, 6-11.	1.4	3
72	Neutron transfer reactions on the ground state and isomeric state of a $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Sn} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 130 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ beam. <i>Physical Review C</i> , 2022, 105, .	2.9	3

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73	Designer Nuclei " Making Atoms that Barely Exist. Physics Teacher, 2010, 48, 381-385.	0.3	2
74	Single-Particle Structure of Neutron-Rich Nuclei. AIP Conference Proceedings, 2004, , .	0.4	1
75	Developing techniques to study $A \approx 132$ nuclei with (d, p) reactions in inverse kinematics. European Physical Journal A, 2005, 25, 283-285.	2.5	1
76	Coulomb breakup of psd-shell neutron-rich nuclei. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1583-S1587.	3.6	1
77	Neutron-Transfer Reactions with Exotic Neutron-Rich Beams: Surrogates for Neutron-Capture Reactions. AIP Conference Proceedings, 2006, , .	0.4	1
78	Pygmy Dipole Strength and Neutron Skins in Exotic Nuclei. AIP Conference Proceedings, 2008, , .	0.4	1
79	Neutron Transfer Reactions on Neutron-Rich $N \approx 50$ and $N \approx 82$ Nuclei Near the r-Process Path. , 2009, , .		1
80	Neutron Transfer Reactions: Surrogates for Neutron Capture for Basic and Applied Nuclear Science. , 2009, , .		1
81	Evaporation residue yields in reactions of heavy neutron-rich radioactive ion beams with [⁶⁴ Ni and [⁹⁶ Zr targets. , 2009, , .		1
82	Reply to "Comment on "Neutron knockout of ¹² B populating neutron-unbound states in ¹¹ Be". Physical Review C, 2012, 86, .	2.9	1
83	X-ray Burst Studies with the JENSA Gas Jet Target. , 2017, , .		1
84	Using ¹⁹ F(³ He,t) ¹⁹ Ne*(\hat{I}^3) to study astrophysically important levels near the ¹⁸ F+p threshold. AIP Conference Proceedings, 2019, , .	0.4	1
85	Proton spectroscopic strengths of ¹⁸ Ne. AIP Conference Proceedings, 2019, , .	0.4	1
86	Investigation of secondary \hat{I}^3 -ray angular distributions using the N15(p, \hat{I}^3)C*12 reaction. Physical Review C, 2021, 103, .	2.9	1
87	PROBING SINGLE-NEUTRON LEVELS IN ^{127,129} Sn VIA TRANSFER REACTIONS. , 2013, , .		1
88	Indication for superallowed Fermi decay from the. , 1998, , .		0
89	Gamow-Teller and Fermi decay of N=Z nuclei above A=70. , 1999, , .		0
90	Coulomb Breakup of Neutron-Rich Oxygen Isotopes. AIP Conference Proceedings, 2004, , .	0.4	0

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91	SEARCHING FOR BOSON-FERMION SYMMETRIES IN NEUTRON-RICH NUCLEI. , 2004, , .		0
92	Sub-barrier fusion induced by neutron-rich radioactive ^{132}Sn . European Physical Journal A, 2005, 25, 239-240.	2.5	0
93	Studies Of Neutron-Rich Nuclei With (d,p) Reactions In Inverse Kinematics At The HRIBF. AIP Conference Proceedings, 2005, , .	0.4	0
94	Studies of Fusion Cross Sections of Te and Sn Isotopes with a ^{64}Ni Target at Energies Near and Below the Barrier. AIP Conference Proceedings, 2006, , .	0.4	0
95	Measurements of fusion reactions induced by radioactive ^{132}Sn on ^{64}Ni . European Physical Journal: Special Topics, 2007, 150, 35-36.	2.6	0
96	Neutron-transfer reaction studies with fission fragment radioactive ion beams near ^{132}Sn . , 2009, , .		0
97	Pygmy Dipole Strength in Exotic Nuclei and the Equation of State. , 2009, , .		0
98	Searching for Resonances in the Unbound Nucleus ^{6}Be . , 2009, , .		0
99	Single-neutron excitations near ^{132}Sn . , 2012, , .		0
100	Single-neutron levels near the N=82 shell closure. , 2013, , .		0
101	HRIBF studies of r-process nuclei and first results with the new SuperORRUBA detector. , 2013, , .		0
102	TRANSFER REACTION EXPERIMENTS WITH FISSION FRAGMENTS. , 2013, , .		0
103	Direct reaction experimental studies with beams of radioactive tin ions. AIP Conference Proceedings, 2015, , .	0.4	0
104	Measuring low-energy ($\hat{I}\pm, p$) reaction cross sections using an extended gas target and gas recirculator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 900, 60-63.	1.6	0
105	xml:ns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Mg</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>24</mml:mn></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi> $\hat{I}\pm$ </mml:mi><mml:mo>, </mml:mo><mml:mi>p</mml:mi></mml:mrow></mml:mo>*</mml:mo><mml:mprescripts /><mml:none />		0

#	ARTICLE	IF	CITATIONS
109	Toward Measuring Prompt Fission Products in Coincidence. , 2017, , .		0
110	Transfer Reactions with ^{134}Xe . , 2017, , .		0
111	Development of the (d,n) Proton-transfer Reaction in Inverse Kinematics for Structure Studies. Acta Physica Polonica B, 2018, 49, 365.	0.8	0
112	Precision Measurements of the $(^{24}\text{Mg}(\alpha, p\gamma)^{27}\text{Al})$ and $(^{27}\text{Al}(p, \alpha\gamma)^{24}\text{Mg})$ Cross Sections. , 2020, , .		0