

# K Y Chae

## List of Publications by Year in descending order

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Version: 2024-02-01

117  
papers

1,578  
citations

331670  
21  
h-index

315739  
38  
g-index

119  
all docs

119  
docs citations

119  
times ranked

1144  
citing authors

#	ARTICLE		IF	CITATIONS
1	Beta-decay half-lives of the extremely neutron-rich nuclei in the closed-shell N = 50, 82, 126 groups. Journal of Physics G: Nuclear and Particle Physics, 2022, 49, 025201.		3.6	5
2	Proton branching ratios of Mg23 levels. Physical Review C, 2022, 105, .		2.9	1
3	Estimation of the NiCu Cycle Strength and Its Impact on Type I X-Ray Bursts. Astrophysical Journal, 2022, 929, 96.	Constraining the $\text{P}_{\text{normal}}$ value by the $\text{Mg}_{\text{normal}}$ branching ratio	4.5	0
4	$\text{Mg}_{\text{normal}} = \frac{\text{P}_{\text{normal}}}{\text{P}_{\text{normal}} + \text{P}_{\text{stretchy}}}$	$\text{Mg}_{\text{normal}} = \frac{30}{30 + 1827}$	7.8	4
5	$\text{Mg}_{\text{normal}} = \frac{30}{30 + 1827} = 0.016$	Beta-decay half-lives of the isotopes close to the neutron drip line and astrophysical implications. Physica Scripta, 2022, 97, 085301.	2.5	1
6	Impact of mass uncertainty on astrophysical rates and $\text{Mg}_{\text{normal}} = \frac{30}{30 + 1827} = 0.016$ equilibrium in the rp-process. Journal of the Korean Physical Society, 2021, 79, 350-356.		0.7	1
7	First measurement of proton decay from a transfer reaction to Na21. Physical Review C, 2021, 104, .		2.9	2
8	Novel semi-empirical formula and examination for fission barriers of super-heavy nuclei with Z > 100. Physica Scripta, 2021, 96, 115302.		2.5	1
9	Evaluation for half-lives in $\beta^+$ -decay chains of $^{309}\text{Zn} \rightarrow ^{312}\text{Ni} \rightarrow ^{126}\text{Mg}$ based on semi-empirical approaches. Physica Scripta, 2021, 96, 035301.	Advancement of Photospheric Radius Expansion and Clocked Type-I X-Ray Burst Models with the New	2.5	2
10	$\text{Mg}_{\text{normal}} = \frac{30}{30 + 1827} = 0.016$	$\text{Mg}_{\text{normal}} = \frac{30}{30 + 1827} = 0.016$		

#	ARTICLE	IF	CITATIONS
19	Experimental Study on the ${}^7\text{Be}((\text{n},\text{p})){}^7\text{Li}$ and the ${}^7\text{Be}((\text{n},\alpha)){}^4\text{He}$ Reactions for Cosmological Lithium Problem. , 2020, , .	2	
20	Nuclear Breakup and Coulomb Dissociation of ${}^9\text{C}$ Nucleus Studied at RIBF RIKEN. , 2020, , .	2	
21	Determination of beta-delayed neutron emission probability limits of rhodium isotopes by gamma-ray spectroscopy. Journal of Physics: Conference Series, 2020, 1643, 012208.	0.4	0
22	Studies on Nuclear Astrophysics and Nuclear Clustering with Low-energy RI Beams at CRIB. , 2020, , .	0	
23	Proton Decay of ${}^{21}\text{Na}$ for ${}^{20}\text{Ne}$ Energy Levels. Journal of the Korean Physical Society, 2020, 77, 383-387.	0.7	0
24	Direct neutron capture cross section on ${}^{76}\text{Ge}$ and probing shape coexistence in neutron-rich nuclei. Physical Review C, 2019, 100, .	2.9	5
25	Commissioning of a portable ionization chamber at high counting rate using heavy ion beams. Journal of Radioanalytical and Nuclear Chemistry, 2019, 322, 579-584.	1.5	1
26	Investigation of the synthesis of the unknown superheavy nuclei 309,312126. International Journal of Modern Physics E, 2019, 28, 1950056.	1.0	8
27	MITA: A Multilayer Ionization-chamber Telescope Array for low-energy reactions with exotic nuclei. European Physical Journal A, 2019, 55, 1. Proton Shell Evolution below $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="block">\langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Sn} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mprescripts} / \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 132 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \text{display="block">\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="block">\langle \text{mml:mi} \rangle l^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \text{display="block">\langle \text{mml:math} \text{xmlns:mml="http://w$	2.5	12
28	/> <math>\langle mml:math> -Emitting Isomers in <math>\langle mml:math>	7.8	17
29	Study of the ${}^9\text{C}$ breakup through NP1412-SAMURAI29R1 experiment. AIP Conference Proceedings, 2019, , .	0.4	4
30	Informing direct neutron capture on tin isotopes near the N=82 shell closure. Physical Review C, 2019, 99, .	2.9	10
31	Key Ne19 States Identified Affecting ${}^{13}\text{N}$ -Ray Emission from F18 in Novae. Physical Review Letters, 2019, 122, 052701.	7.8	9
32	Using ${}^{19}\text{F}({}^3\text{He},\text{t}){}^{19}\text{Ne}^*({}^{13}\text{N})$ to study astrophysically important levels near the ${}^{18}\text{F}+\text{p}$ threshold. AIP Conference Proceedings, 2019, , .	0.4	1
33	A Simulation Study and Its Experimental Validation for the Detection of Neutrons with a Continuous Energy Spectrum by Using a MICROMEGAS Detector. Journal of the Korean Physical Society, 2019, 75, 775-784.	0.7	1
34	Heating factors of gas targets for radioactive ion beam production. Journal of Radioanalytical and Nuclear Chemistry, 2019, 319, 33-38.	1.5	0
35	Measurements of the neutron-induced reactions on ${}^7\text{Be}$ with CRIB by the Trojan Horse method. AIP Conference Proceedings, 2018, , .	0.4	4
36	Study of the ${}^2\text{H}({}^7\text{Be},\text{p}+{}^3\text{He}+{}^4\text{He})\text{n}$ Reaction for Resonances in ${}^8\text{B}$ . Journal of the Korean Physical Society, 2018, 73, 1049-1054.	0.7	0

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37	Impact of the $^{26}\text{mAl}(p, \bar{\nu})$ reaction to galactic $^{26}\text{Al}$ yield. AIP Conference Proceedings, 2018, , .	0.4	1
38	Study of $\bar{\nu}$ -cluster Structure in $^{22}\text{Mg}$ Using a Radioactive Ion Beam. Journal of the Korean Physical Society, 2018, 73, 1055-1060.	0.7	0
39	Indirect studies on astrophysical reactions at the low-energy RI beam separator CRIB. AIP Conference Proceedings, 2018, , .	0.4	0
40	A Design and its Validation of a Proton Recoil Telescope with a Silicon Detector for Measurements of Fast Neutrons. Journal of the Korean Physical Society, 2018, 73, 271-277.	0.7	0
41	display="inline"><math>\text{display} = \text{inline}</math><mml:mrow><mml:mn>94</mml:mn><mml:mtext>a\%</mml:mtext><mml:mi>I^2</mml:mi></mml:mrow></mml:math>-Decay Half-Lives of Neutron-Rich <math>\text{display} = \text{inline}</math><mml:mrow><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:math>Cs</mml:math></mml:mrow><mml:mi>Cs</mml:mi></mml:mrow><mml:mprescripts /><mml:mrow><mml:mn>55</mml:mn></mml:mrow><mml:mi>Cs</mml:mi></mml:mrow><mml:mprescripts /><mml:mrow><mml:math display="block">\text{display} = \text{block}</math><mml:mrow><mml:math display="block">\text{display} = \text{block}</math></mml:math></mml:mrow></mml:math>	68	8
42	Spectroscopic study of the radionuclide $^{22}\text{Na}$ for the astrophysical $F17(\bar{\nu}, p)Ne20$ reaction rate. Physical Review C, 2017, 96, .	2.9	4
43	First spin-parity constraint of the 306 keV resonance in $\text{display} = \text{block}</math><mml:mrow><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:math>Cl</mml:math></mml:mrow><mml:mprescripts /><mml:mi>Cl</mml:mi></mml:mprescripts><mml:mi>Cl</mml:mi></mml:math> for nova nucleosynthesis. Physical Review C, 2017, 95, .$	2.9	1
44	Multi-electrode ionization chamber energy loss calculator (MICE). Journal of the Korean Physical Society, 2017, 70, 912-917.	0.7	0
45	Measuring one nucleon transfer reaction $^{24}\text{Mg}(p, d)^{23}\text{Mg}$ for astrophysical reaction rates. Journal of the Korean Physical Society, 2017, 71, 758-763.	0.7	0
46	X-ray Burst Studies with the JENSA Gas Jet Target., 2017, , .		1
47	Study on $\bar{\nu}$ -cluster levels in non-4n nuclei using low-energy RI beams. Journal of Physics: Conference Series, 2017, 863, 012025.	0.4	0
48	Transfer Reactions with $^{134}\text{Xe}$ ., 2017, , .		0
49	Proton-hole and core-excited states in the semi-magic nucleus $^{131}\text{In}^{82}$ . European Physical Journal A, 2016, 52, 1.	2.5	9
50	Construction and commissioning of a position-sensitive ionization chamber. Journal of the Korean Physical Society, 2016, 68, 1165-1169.	0.7	2
51	Visualized kinematics code for two-body nuclear reactions. Journal of the Korean Physical Society, 2016, 68, 1055-1059.	0.7	1
52	$\text{display} = \text{block}</math><mml:mrow><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:math>Cd</mml:math></mml:mrow><mml:mprescripts /><mml:mi>Cd</mml:mi></mml:mprescripts><mml:math display="block">\text{display} = \text{block}</math><mml:mrow><mml:math display="block">\text{display} = \text{block}</math></mml:math></mml:mrow></mml:math>: Revision and extension of the level scheme of<math>\text{display} = \text{block}</math><mml:mrow><mml:math display="block">\text{display} = \text{block}</math></mml:math></mml:mrow></mml:math>$	2.9	17
53	$\text{display} = \text{block}</math><mml:mrow><mml:math display="block">\text{display} = \text{block}</math></mml:math></mml:mrow></mml:math>$	2.9	9
54	Effects of Rare Isotope Reaction Rates on the Light Curve of an X-ray Burst. New Physics: Sae Mulli, 2016, 66, 1524-1529.	0.1	0

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55	Study of the Energy Levels in the $^{23}\text{Mg}$ Radionuclide by Using Proton Beams and a $^{24}\text{Mg}$ Target. <i>New Physics: Sae Mulli</i> , 2016, 66, 1518-1523.	0.1	0
56	$\beta^2$ -decay of Cd129 and excited states in Ln129. <i>Physical Review C</i> , 2015, 91, .	2.9	20
57	Direct reaction experimental studies with beams of radioactive tin ions. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	0
58	$^{24}\text{Mg}(p, \beta\pm)21\text{Na}$ reaction study for spectroscopy of $21\text{Na}$ . <i>Journal of the Korean Physical Society</i> , 2015, 67, 1435-1439.	0.7	2
59	Heavy rotation $\omega$ evolution of quadrupole collectivity centred at the neutron-rich doubly mid-shell nucleus $^{170}\text{Dy}$ . <i>AIP Conference Proceedings</i> , 2015, , .	0.4	1
60	Background considerations for the $2\text{H}(7\text{Be}, 3\text{H})6\text{Be}$ experimental data II: Three-body continuum. <i>Journal of the Korean Physical Society</i> , 2015, 67, 1533-1536.	0.7	0
61	$\beta^2$ -delayed $\beta\pm$ decay of $^{16}\text{N}$ and the $^{12}\text{C}(\beta\pm, \beta^3)16\text{O}$ cross section at astrophysical energies: A new experimental approach., 2015, , .		1
62	Constraint of the Astrophysical $\beta^2$ -delayed $\beta\pm$ decay of $^{16}\text{N}$ and the $^{12}\text{C}(\beta\pm, \beta^3)16\text{O}$ cross section at astrophysical energies: A new experimental approach., 2015, , .	7.8	27
63	Shape Evolution in Neutron-Rich Ru Nuclei. , 2015, , .		0
64	Design study for the KOBRA (KOrea Broad acceptance Recoil spectrometer and Apparatus) at RAON. <i>Journal of the Korean Physical Society</i> , 2015, 66, 509-512.	0.7	0
65	Development and performance test of the analysis software for the CRIB active target. <i>Journal of the Korean Physical Society</i> , 2015, 66, 459-464.	0.7	0
66	Background considerations for the $2\text{H}(7\text{Be}, 3\text{H})6\text{Be}$ experimental data using the phase space model. <i>Journal of the Korean Physical Society</i> , 2014, 65, 1356-1359.	7.8	167
67	Background considerations for the $2\text{H}(7\text{Be}, 3\text{H})6\text{Be}$ experimental data using the phase space model. <i>Journal of the Korean Physical Society</i> , 2014, 65, 1356-1359.	0.7	1
68	State in $^{120}\text{Sn}$ and $^{132}\text{Sn}$ : Implications for the Mechanism and Universality of the Astrophysical $\beta^2$ -decay of $^{16}\text{N}$ . <i>Physical Review Letters</i> , 2014, 112, 222501.	7.8	51
69	State in $^{120}\text{Sn}$ and $^{132}\text{Sn}$ : Implications for the Mechanism and Universality of the Astrophysical $\beta^2$ -decay of $^{16}\text{N}$ . <i>Physical Review Letters</i> , 2014, 112, 222501.	7.8	24
70	Development of a portable gas-filled ionization chamber. <i>Journal of the Korean Physical Society</i> , 2014, 64, 516-521.	0.7	4
71	Nuclear clusters studied with alpha resonant scatterings using RI beams at CRIB. <i>Journal of Physics: Conference Series</i> , 2014, 569, 012019.	0.4	1
72	Development of a portable gas-filled ionization chamber. <i>Journal of the Korean Physical Society</i> , 2014, 64, 516-521.	7.8	67

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73	Reactions of a $\alpha$ beam on proton and deuteron targets. Physical Review C, 2013, 88, .	2.9	36
74	Single-neutron levels near the N=82 shell closure. , 2013, , .	0	
75	HRIBF studies of r-process nuclei and first results with the new SuperORRUBA detector. , 2013, , .	0	
76	Shape evolution in $^{116,118}\text{Ru}$ : Triaxiality and transition between the O(6) and U(5) dynamical symmetries. Physical Review C, 2013, 88, .	2.9	21
77	PROBING SINGLE-NEUTRON LEVELS IN $^{127,129}\text{Sn}$ VIA TRANSFER REACTIONS. , 2013, , .	1	
78	$^{19}\text{Ne}$ levels studied with the $^{18}\text{F}(\text{d},\text{n})^{19}\text{Ne}^*(18\text{F}+\text{p})$ reaction. Physical Review C, 2012, 85, .	2.9	14
79	Neutron Single Particle Structure in $^{131}\text{Sn}$ and Direct Neutron Capture Cross Sections. Physical Review Letters, 2012, 109, 172501.	7.8	58
80	$^{26}\text{Al}$ +pelastic and inelastic scattering reactions and galactic abundances of $^{26}\text{Al}$ . Physical Review C, 2012, 85, .	2.9	4
81			

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91	Alignments to excited states in $\text{Na}^{+}$ through $\text{Mg}^{+}$ through $\text{F}^{-}$	2.9	7
92	Inelastic $\text{F}^{17}(\text{p},\text{p})\text{F}^{17}$ scattering at $E_{\text{c.m.}}=3\text{MeV}$ and the $\text{O}^{14}(\text{p},\text{p})\text{F}^{17}$ reaction rate. Physical Review C, 2010, 81, . Comment on "Low-energy" $\text{F}^{17}(\text{p},\text{p})\text{F}^{17}$	2.9	5
93			

#	ARTICLE		IF	CITATIONS
109	DEVELOPMENT OF ORRUBA: A SILICON ARRAY FOR THE MEASUREMENT OF TRANSFER REACTIONS IN INVERSE KINEMATICS. , 2008, , .		3	
110	Measurement of the 183 keV resonance in O17(p, $\pm$ )N14 using a novel technique. Physical Review C, 2007, 75, .	2.9	27	
111	Computational Infrastructure for Nuclear Astrophysics. AIP Conference Proceedings, 2006, , .	0.4	4	
112	Astrophysically important Si26 states studied with the Si28(p,t)Si26 reaction. II. Spin of the 5.914-MeV Si26 level and galactic Al26 production. Physical Review C, 2006, 74, .	2.9	38	
113	First experimental constraints on the interference of 32+ resonances in the F18(p, $\pm$ )O15 reaction. Physical Review C, 2006, 74, .	2.9	29	
114	A New Computational Infrastructure For Nuclear Astrophysics. Nuclear Physics A, 2005, 758, 174-177.	1.5	1	
115	New Evaluations and Computational Infrastructure for Management and Visualization of Nuclear Astrophysics Data. AIP Conference Proceedings, 2005, , .	0.4	0	
116	Nuclear data on unstable nuclei for astrophysics. Nuclear Physics A, 2004, 746, 569-572.	1.5	1	
117	MRTOF-S: a toolkit for pre-estimating precise mass measurements using MRTOF spectrometer. Journal of the Korean Physical Society, 0, , 1.	0.7	0	