# K Y Chae

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 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 | The magic nature of 132Sn explored through the single-particle states of 133Sn. Nature, 2010, 465, 454-457. | 27.8 | 189 |
| 2 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>-Decay Half-Lives of 110 Neutron-Rich Nuclei across the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>82</mml:mn></mml:math>Shell Gap: Implications for the Mechanism and Universality of the Astrophysical<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>r</mml:mi></mml:math> | 7.8 | 167 |
| 3 | Neutron-Proton Asymmetry Dependence of Spectroscopic Factors in Ar Isotopes. Physical Review Letters, 2010, 104, 112701. | 7.8 | 101 |
| 4 | Halo Nucleus<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Be</mml:mi><mml:mprescripts /><mml:none /><mml:mn>11</mml:mn></mml:mmultiscripts></mml:math>: A Spectroscopic Study via Neutron Transfer. Physical Review Letters, 2012, 108, 192701. | 7.8 | 79 |
| 5 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Cs</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mn>94</mml:mn></mml:mmultiscripts><mml:mtext>a€‰</mml:mtext><mml:msup><mml:mi>I²</mml:mi></mml:mrow></mml:math>-Decay Half-Lives of Neutron-Rich <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Cs</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mn>128</mml:mn></mml:mmultiscripts></mml:mrow></mml:math>Isomers. | 7.8 | 68 |
| 6 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Pd</mml:mi><mml:mprescripts /><mml:none /><mml:mn>128</mml:mn></mml:mmultiscripts></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Pd</mml:mi><mml:mprescripts /><mml:none /><mml:mn>126</mml:mn></mml:mmultiscripts></mml:math>: Evidence for a Robust Shell Closure at | 7.8 | 67 |
| 7 | Direct reaction measurements with a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>132</mml:mn></mml:msup></mml:math>Sn radioactive ion beam. Physical Review C, 2011, 84, . | 2.9 | 62 |
| 8 | Neutron Single Particle Structure in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Sn</mml:mi><mml:mprescripts /><mml:none /><mml:mn>131</mml:mn></mml:mmultiscripts></mml:math>and Direct Neutron Capture Cross Sections. Physical Review Letters, 2012, 109, 172501. | 7.8 | 58 |
| 9 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:msub><mml:mrow><mml:mi>p</mml:mi></mml:mrow><mml:mrow /></mml:msub></mml:mrow></mml:math>Proton-Hole State 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 /><mml:mrow><mml:mn>34</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>and<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>36</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>Neutron spectroscopic factors of | 7.8 | 51 |
| 10 | Astrophysically importantSi26states studied with theSi28(p,t)Si26reaction. II. Spin of the 5.914-MeVSi26level and galacticAl26production. Physical Review C, 2006, 74, . | 2.9 | 39 |
| 11 | Reactions of a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>10</mml:mn></mml:msup></mml:math>Be beam on proton and deuteron targets. Physical Review C, 2013, 88, . | 2.9 | 39 |
| 12 | First proton-transfer study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi /><mml:mrow><mml:mn>18</mml:mn></mml:mrow></mml:msup><mml:mi mathvariant="bold">F</mml:mi><mml:mo>+</mml:mo><mml:mi>p</mml:mi></mml:mrow></mml:math>resonances relevant for novae. Physical Review C, 2011, 83, . | 2.9 | 38 |
| 13 | First experimental constraints on the interference of32+resonances in theF18(p,Î±)O15reaction. Physical Review C, 2006, 74, . | 2.9 | 36 |
| 14 | The<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Si</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>28</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>(<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Ne</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>18</mml:mn></mml:mrow></mml:mmultiscripts><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mi>Î±</mml:mi><mml:mo>,</mml:mo><mml:mi>p</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 | 2.9 | 29 |
| 15 | Constraints on the astrophysical | 2.9 | 28 |
| 16 | Measurement of the 183 keV resonance inO17(p,Î±)N14using a novel technique. Physical Review C, 2007, 75, . | 2.9 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Measurement of the Astrophysical<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Al</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>26</mml:mn><mml:mi>g</mml:mi></mml:mrow></mml:mmultiscripts><mml:mo stretchy="false">(</mml:mo><mml:mi>p</mml:mi><mml:mo>,</mml:mo><mml:mi>Î³</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgB | 7.8 | 27 |
| 20 | First Direct Measurement of theF17(p,â€‹Î³)Ne18Cross Section. Physical Review Letters, 2009, 102, 152502. | 7.8 | 26 |
| 21 | Monopole-Driven Shell Evolution below the Doubly Magic Nucleus <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> Explored with the Long-Lived Isomer in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" | 7.8 | 24 |
| 22 | Shape evolution in116,118Ru: Triaxiality and transition between the O(6) and U(5) dynamical symmetries. Physical Review C, 2013, 88, . | 2.9 | 21 |
| 23 | Single-nucleon transfer reactions on18F. Physical Review C, 2011, 84, . | 2.9 | 20 |
| 24 | Î²decay ofCd129and excited states inIn129. Physical Review C, 2015, 91, . | 2.9 | 20 |
| 25 | Spectroscopic study of low-lying<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">N</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>16</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>levels. Physical | 2.9 | 18 |
| 26 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math>decay of semi-magic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Cd</mml:mi><mml:mprescripts /><mml:none /><mml:mn>130</mml:mn></mml:mmultiscripts></mml:math>: Revision and extension of the level scheme of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML | 2.9 | 17 |
| 27 | Fine structure of the<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> : <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow | 7.8 | 17 |
| 28 | Emitting Isomers in <mml:math xmlns:mml="http://w | | |

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| 37 | Proton-hole and core-excited states in the semi-magic nucleus 131In82. European Physical Journal A, 2016, 52, 1. | 2.5 | 9 |
| 38 | Structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Sn</mml:mi><mml:mprescripts /><mml:none /><mml:mn>107</mml:mn></mml:mmultiscripts></mml:math>studied through single-neutron knockout reactions. Physical Review C, 2016, 93, . | 2.9 | 9 |
| 39 | Key Ne19 States Identified Affecting Î³ -Ray Emission from F18 in Novae. Physical Review Letters, 2019, 122, 052701. | 7.8 | 9 |
| 40 | Investigation of the synthesis of the unknown superheavy nuclei 309,312126. International Journal of Modern Physics E, 2019, 28, 1950056. | 1.0 | 8 |
| 41 | Spin assignments to excited states in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Na</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>22</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>through a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Mg</mml:mi><mml:mprescripts /> | 2.9 | 7 |
| 42 | Spin assignments for $$^{23}hbox {Mg}$$ levels and the astrophysical $$^{22}hbox {Na}(p,gamma) Tj ETQq0 0 0 rgBT /Overlock 10 T | 2.5 | 6 |
| 43 | InelasticF17(p,p)F17scattering atEc.m.=3ÂMeV and theO14(Î±,p)F17reaction rate. Physical Review C, 2010, 81, . | 2.9 | 5 |
| 44 | Direct neutron capture cross section on Ge80 and probing shape coexistence in neutron-rich nuclei. Physical Review C, 2019, 100, . | 2.9 | 5 |
| 45 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ne</mml:mi><mml:mprescripts /><mml:none /><mml:mn>19</mml:mn></mml:mmultiscripts></mml:math> level structure for explosive nucleosynthesis. Physical Review C, 2020, 102, . | 2.9 | 5 |
| 46 | 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 |
| 47 | Computational Infrastructure for Nuclear Astrophysics. AIP Conference Proceedings, 2006, , . | 0.4 | 4 |
| 48 | 26Al+pelastic and inelastic scattering reactions and galactic abundances of26Al. Physical Review C, 2012, 85, . | 2.9 | 4 |
| 49 | Searching for resonances in the unbound 6Be nucleus by using a radioactive 7Be beam. Journal of the Korean Physical Society, 2012, 61, 1786-1791. | 0.7 | 4 |
| 50 | Development of a portable gas-filled ionization chamber. Journal of the Korean Physical Society, 2014, 64, 516-521. | 0.7 | 4 |
| 51 | Spectroscopic study of the radionuclide Na21 for the astrophysical F17(Î±,p)Ne20 reaction rate. Physical Review C, 2017, 96, . | 2.9 | 4 |
| 52 | Measurements of the neutron-induced reactions on 7Be with CRIB by the Trojan Horse method. AIP Conference Proceedings, 2018, , . | 0.4 | 4 |
| 53 | Study of the 9C breakup through NP1412-SAMURAI29R1 experiment. AIP Conference Proceedings, 2019, , . | 0.4 | 4 |
| 54 | Constraining the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">P</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>30</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mrow><mml:mi>p</mml:mi></mml:mrow><mml:mo>,</mml:mo><mml:mtext>â€‰</mml:mtext><mml: | 7.8 | 4 |

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| 55 | Studies of nuclei close to [sup 132]Sn using single-neutron transfer reactions. , 2009, , . | | 3 |
| 56 | Development of the ORRUBA Silicon Detector Array. , 2009, , . | | 3 |
| 57 | Comment on â€œProperties of26Mg and26Si in thesdshell model and the determination of the25Al(p,Î³)26Si reaction rateâ€• Physical Review C, 2011, 84, . | 2.9 | 3 |
| 58 | DEVELOPMENT OF ORRUBA: A SILICON ARRAY FOR THE MEASUREMENT OF TRANSFER REACTIONS IN INVERSE KINEMATICS. , 2008, , . | | 3 |
| 59 | 24Mg(p, Î±)21Na reaction study for spectroscopy of 21Na. Journal of the Korean Physical Society, 2015, 67, 1435-1439. | 0.7 | 2 |
| 60 | Construction and commissioning of a position-sensitive ionization chamber. Journal of the Korean Physical Society, 2016, 68, 1165-1169. | 0.7 | 2 |
| 61 | Possible syntheses of unknown superheavy 309,312126 nuclei. Journal of Radioanalytical and Nuclear Chemistry, 2020, 326, 1135-1149. | 1.5 | 2 |
| 62 | Isomeric and Î² -decay spectroscopy of Ho173,174. Physical Review C, 2020, 102, . | 2.9 | 2 |
| 63 | Experimental Study on the 7Be((n,p))7Li and the 7Be((n,alpha ))4He Reactions for Cosmological Lithium Problem. , 2020, , . | | 2 |
| 64 | First measurement of proton decay from a transfer reaction to Na21. Physical Review C, 2021, 104, . | 2.9 | 2 |
| 65 | Evaluation for half-lives in Î±-decay chains of <sup>309â^'312</sup>126 based on semi-empirical approaches. Physica Scripta, 2021, 96, 035301. | 2.5 | 2 |
| 66 | Nuclear Breakup and Coulomb Dissociation of 9C Nucleus Studied at RIBF RIKEN. , 2020, , . | | 2 |
| 67 | Nuclear data on unstable nuclei for astrophysics. Nuclear Physics A, 2004, 746, 569-572. | 1.5 | 1 |
| 68 | A New Computational Infrastructure For Nuclear Astrophysics. Nuclear Physics A, 2005, 758, 174-177. | 1.5 | 1 |
| 69 | Neutron Transfer Reactions on Neutron-Rich Nâ€‰=â€‰50 and Nâ€‰=â€‰82 Nuclei Near the r-Process Path. , 2009, , . | | 1 |
| 70 | Neutron Transfer Reactions: Surrogates for Neutron Capture for Basic and Applied Nuclear Science. , 2009, , . | | 1 |
| 71 | Background considerations for the 2H(7Be,3H)6Be experimental data using the phase space model. Journal of the Korean Physical Society, 2014, 65, 1356-1359. | 0.7 | 1 |
| 72 | Nuclear clusters studied with alpha resonant scatterings using RI beams at CRIB. Journal of Physics: Conference Series, 2014, 569, 012019. | 0.4 | 1 |

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| 73 | Heavy rotation â€“ evolution of quadrupole collectivity centred at the neutron-rich doubly mid-shell nucleus 170Dy. AIP Conference Proceedings, 2015, , . | 0.4 | 1 |
| 74 | Î²-delayed Î± decay of 16N and the 12C(Î±,Î³)16O cross section at astrophysical energies: A new experimental approach. , 2015, , . | | 1 |
| 75 | Visualized kinematics code for two-body nuclear reactions. Journal of the Korean Physical Society, 2016, 68, 1055-1059. | 0.7 | 1 |
| 76 | First spin-parity constraint of the 306 keV resonance in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Cl</mml:mi><mml:mprescripts /><mml:none /><mml:mn>35</mml:mn></mml:mmultiscripts></mml:math> for nova nucleosynthesis. Physical Review C, 2017, 95, . | 2.9 | 1 |
| 77 | X-ray Burst Studies with the JENSA Gas Jet Target. , 2017, , . | | 1 |
| 78 | Impact of the 26mAl(p, Î³) reaction to galactic 26Al yield. AIP Conference Proceedings, 2018, , . | 0.4 | 1 |
| 79 | 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 |
| 80 | Using 19F(3He,t)19Ne*(Î³) to study astrophysically important levels near the 18F+p threshold. AIP Conference Proceedings, 2019, , . | 0.4 | 1 |
| 81 | 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 |
| 82 | Impact of mass uncertainty on astrophysical rates and $$(p,gamma )$$â€“$$(gamma ,p)$$ equilibrium in the rp-process. Journal of the Korean Physical Society, 2021, 79, 350-356. | 0.7 | 1 |
| 83 | Novel semi-empirical formula and examination for fission barriers of super-heavy nuclei with ZÂâ‰¥Â100. Physica Scripta, 2021, 96, 115302. | 2.5 | 1 |
| 84 | PROBING SINGLE-NEUTRON LEVELS IN 127,129Sn VIA TRANSFER REACTIONS. , 2013, , . | | 1 |
| 85 | Proton branching ratios of Mg23 levels. Physical Review C, 2022, 105, . | 2.9 | 1 |
| 86 | Beta-decay half-lives of the isotopes close to the neutron drip line and astrophysical implications. Physica Scripta, 2022, 97, 085301. | 2.5 | 1 |
| 87 | New Evaluations and Computational Infrastructure for Management and Visualization of Nuclear Astrophysics Data. AIP Conference Proceedings, 2005, , . | 0.4 | 0 |
| 88 | Neutron-transfer reaction studies with fission fragment radioactive ion beams near [sup 132]Sn. , 2009, , . | | 0 |
| 89 | First Direct Measurement of the [sup 17]F(p,Î³)[sup 18]Ne Cross Section. , 2009, , . | | 0 |
| 90 | Searching for Resonances in the Unbound Nucleus [sup 6]Be. , 2009, , . | | 0 |

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|---|---|---|---|
| 91 | Comment on â€œLow-energy<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">F</mml:mi><mml:mprescripts/><mml:none | | |

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|---|---|---|---|
| 109 | Interactive Kinematics Code for Transfer Reactions. Journal of the Korean Physical Society, 2020, 76, 567-572. | 0.7 | 0 |
| 110 | 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 |
| 111 | Study of the Energy Levels in the $^{23}$Mg Radionuclide by Using Proton Beams and a $^{24}$Mg Target. New Physics: Sae Mulli, 2016, 66, 1518-1523. | 0.1 | 0 |
| 112 | Transfer Reactions with 134Xe. , 2017, , . | | 0 |
| 113 | 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 |
| 114 | Studies on Nuclear Astrophysics and Nuclear Clustering with Low-energy RI Beams at CRIB. , 2020, , . | | 0 |
| 115 | Proton Decay of 21Na for 20Ne Energy Levels. Journal of the Korean Physical Society, 2020, 77, 383-387. | 0.7 | 0 |
| 116 | MRTOF-S: a toolkit for pre-estimating precise mass measurements using MRTOF spectrometer. Journal of the Korean Physical Society, 0, , 1. | 0.7 | 0 |
| 117 | Estimation of the NiCu Cycle Strength and Its Impact on Type I X-Ray Bursts. Astrophysical Journal, 2022, 929, 96. | 4.5 | 0 |