

Megumi Niikura

List of Publications by Year in descending order

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Version: 2024-02-01

155
papers

2,640
citations

218677

26
h-index

233421

45
g-index

159
all docs

159
docs citations

159
times ranked

1452
citing authors

#	ARTICLE	IF	CITATIONS
1	ray spectroscopy of low-lying yrast and non-yrast states in neutron-rich Kr isotopes. <i>Physical Review C</i> , 2022, 105, .	2.9	6
2	First observation of the Kr partner orbital configuration in the odd-odd Kr isotopes. <i>Physical Review C</i> , 2022, 105, .	2.9	2
3	Xe studied by Kr decay of ground and isomeric states in Kr isotopes. <i>Physical Review C</i> , 2021, 103, .	2.9	1
4	Shape Changes in the Mirror Nuclei Kr and Se . <i>Physical Review C</i> , 2021, 103, .	7.8	15
5	Probing nuclear forces beyond the nuclear drip line: the cases of ^{16}F and ^{15}F . <i>European Physical Journal A</i> , 2021, 57, 1.	2.5	4
6	Nuclear structure of Te isotopes beyond neutron magic number $N=82$. <i>Physical Review C</i> , 2021, 103, .	2.9	7
7	A liquid hydrogen target for radioactive beam experiments using the missing mass method. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, , 165477.	1.6	4
8	Persistence of the $Z=28$ shell gap in $A=75$ isobars: Identification of a possible $(1/2^+)$ Kr isomer in Co75 and Ni75 . <i>Physical Review C</i> , 2021, 103, .	2.9	2
9	Isomeric states in neutron-rich nuclei near $N=82$. <i>Physical Review C</i> , 2021, 104, .	2.9	2
10	Coulomb and nuclear excitations of Zn70 and Ni68 at intermediate energy. <i>Physical Review C</i> , 2021, 104, .	2.9	2
11	Boulay et al. Reply.. <i>Physical Review Letters</i> , 2021, 127, 169202.	7.8	1
12	Impact of shell evolution on Gamow-Teller \hat{I}^2 decay from a high-spin long-lived isomer in ^{127}Ag . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 823, 136766.	4.1	3
13	Mirror energy differences above the $0f_{7/2}$ shell: First \hat{I}^3 -ray spectroscopy of the $\text{Ta}^- = \hat{a}^- 2$ nucleus ^{56}Zn . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 823, 136784.	4.1	9
14	Identification of excited states in Te isotopes. <i>Physical Review C</i> , 2021, 104, .	2.9	0
15	Transition strengths in the neutron-rich Ni73,74,75 isotopes. <i>Physical Review C</i> , 2020, 102, .	2.9	7
16	Shell structure of ^{84}Zr and collapse of the $N=28$ shell closure. <i>Physical Review C</i> , 2020, 102, .	2.9	10
17	Metastable States of Ni and the systematics of the Se isotopes. <i>Physical Review C</i> , 2021, 103, .	2.9	4
18	Identification of an Oblate Kr Isomer of Kr isotopes. <i>Physical Review C</i> , 2021, 103, .	2.9	9

#	ARTICLE	IF	CITATIONS
19	Shape coexistence revealed in the $N=Z$ isotope ^{72}Kr through inelastic scattering. European Physical Journal A, 2020, 56, 1 g Factor of the Zr	2.5	16
20	Zr		

#	ARTICLE	IF	CITATIONS
37	Coulomb breakup reactions of $^{93,94}\text{Zr}$ in inverse kinematics. Progress of Theoretical and Experimental Physics, 2019, 2019, .	6.6	3
38	New isomers in $^{125}\text{Pd}_{79}$ and $^{127}\text{Pd}_{81}$: Competing proton and neutron excitations in neutron-rich palladium nuclides towards the $N=82$ shell closure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 263-268.	4.1	5
39	^{78}Ni revealed as a doubly magic stronghold against nuclear deformation. Nature, 2019, 569, 53-58.	27.8	120
40	Prominence of Pairing in Inclusive $\langle \mathbf{p} \rangle$ Tj ET stretchy="false">(</mml:mo><mml:mi>p</mml:mi><mml:mo>,</mml:mo><mml:mn>2</mml:mn><mml:mi>p</mml:mi><mml:mo>Tj ET xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo mathvariant="bold"		

#	ARTICLE	IF	CITATIONS
55	Atomic Signatures of Harmonic Oscillator Shells Far from Stability? First Spectroscopy of Zr . Physical Review Letters, 2017, 118, 032501.	7.8	41
56	Type II shell evolution in $A = 70$ isobars from the $N = 40$ island of inversion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 765, 328-333.	4.1	33
57	Shell evolution beyond $Z = 28$ and $N = 50$: Spectroscopy of Ni . A hint from lifetime measurements in the $N = 51$ isotones. Physical Review Letters, 2017, 118, 032502.	2.9	4
58	In-beam $\hat{\Gamma}^3$ -ray spectroscopy of $Mg35$ via knockout reactions at intermediate energies. Physical Review C, 2017, 96, .	2.9	5
59	Shell evolution beyond $Z = 28$ and $N = 50$: Spectroscopy of $81,82,83,84$ Zn. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 492-497.	4.1	29
60	Spectroscopic factor and proton formation probability for the $d_{3/2}$ proton emitter $151Lu$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 83-87.	4.1	12
61	Reinvestigation of the excited states in the proton emitter Te to $N = Z = 64$ subshell. Physical Review C, 2017, 96, .	2.9	18
62	Reinvestigation of the excited states in the proton emitter $Lu151$: Particle-hole excitations across the $N = Z = 64$ subshell. Physical Review C, 2017, 96, .	2.9	1
63	Observation of new neutron-rich Mn, Fe, Co, Ni, and Cu isotopes in the vicinity of $N = Z = 64$ subshell. Physical Review C, 2017, 96, .	2.9	62
64	Observation of a $\hat{\Gamma}^3$ -decaying millisecond isomeric state in $128Cd80$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 483-488.	4.1	7
65	Nuclear structure and $\hat{\Gamma}^2$ -decay schemes for Te nuclides beyond $N = 82$. Physical Review C, 2017, 95, .	2.9	30
66	Gamma Decay of Unbound Neutron-Hole States in $Sn133$. Physical Review Letters, 2017, 118, 202502.	2.9	34
67	Shell Evolution towards Ni . Low-Lying States in Ni . Physical Review Letters, 2017, 118, 202502.	7.8	29
68	Low-lying structure and shape evolution in neutron-rich Se isotopes. Physical Review C, 2017, 95, .	2.9	28
69	Shape Evolution in Neutron-Rich Krypton Isotopes Beyond $N = 60$. First Spectroscopy of Kr . Physical Review Letters, 2017, 118, 202502.	7.8	44
70	Study of proton- and deuteron-induced spallation reactions on the long-lived fission product $93Zr$ at 105 MeV/nucleon in inverse kinematics. Progress of Theoretical and Experimental Physics, 2017, 2017, .	6.6	21

#	ARTICLE	IF	CITATIONS
73	Spallation reaction study for the long-lived fission products in nuclear waste: Cross section measurements for ^{137}Cs , ^{90}Sr and ^{107}Pd using inverse kinematics method. Energy Procedia, 2017, 131, 127-132.	1.8	3
74	Cross sections for nuclide production in proton- and deuteron-induced reactions on ^{93}Nb measured using the inverse kinematics method. EPJ Web of Conferences, 2017, 146, 11046.	0.3	0
75	Spallation reaction study for the long-lived fission product ^{107}Pd . Progress of Theoretical and Experimental Physics, 2017, 2017, .	6.6	10
76	Cross section measurement of residues produced in proton- and deuteron-induced spallation reactions on ^{93}Zr at 105 MeV/u using the inverse kinematics method. EPJ Web of Conferences, 2017, 146, 03012.	0.3	0
77	Spallation reaction study for fission products in nuclear waste: Cross section measurements for ^{137}Cs , ^{90}Sr and ^{107}Pd on proton and deuteron. EPJ Web of Conferences, 2017, 146, 09022.	0.3	2
78	Production of $N = 126$ Nuclei and Beyond Using Multinucleon Transfer Reactions. , 2017, , .		0
79	Proton-hole and core-excited states in the semi-magic nucleus ^{131}In . European Physical Journal A, 2016, 52, 1.	2.5	9
80	Collectivity of neutron-rich Cr and Fe toward $N=50$. EPJ Web of Conferences, 2016, 107, 03007.	0.3	1
81	Superdeformed and Triaxial States in ^{42}Ca . http://www.w3.org/1998/Math/MathML display="inline" $\langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Ca} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mprescripts} \rangle / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 42 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \langle \text{mml:math} \rangle \langle \text{mml:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \text{I} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{decay}$	7.8	39
82	of semi-magic ^{130}Cd . http://www.w3.org/1998/Math/MathML $\langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Cd} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \rangle 130 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$: Revision and extension of the level scheme of ^{130}Cd .	2.9	17
83	New isomer found in ^{89}Sb : Sphericity and shell evolution between $N=82$ and $N=90$. Physical Review C, 2016, 93, .	2.9	23
84	Low-lying excitations in ^{72}Ni . http://www.w3.org/1998/Math/MathML $\langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Ni} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \rangle 72 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$. Physical Review C, 2016, 93, .	2.9	24
85	Coulomb excitation of ^{44}Ca . http://www.w3.org/1998/Math/MathML $\langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Ca} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \rangle 44 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ and ^{44}Ar . http://www.w3.org/1998/Math/MathML $\langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Ar} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \rangle 44 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$	2.9	18
86	Magnetic moment of the ^{69}Cu isomeric state in ^{69}Cu . http://www.w3.org/1998/Math/MathML $\langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 13 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:math} \rangle / \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ isomeric state in ^{69}Cu .	2.9	0
87	Spin alignment in the one-nucleon removal reaction. Physical Review C, 2016, 93, . Inelastic scattering of $^{72,74}\text{Ni}$ off a proton target. Journal of Physics: Conference Series, 2016, 724, 012008.	0.4	0
88	Spallation reaction study for fission products in nuclear waste: Cross section measurements for ^{137}Cs and ^{90}Sr on proton and deuteron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 754, 104-108.	4.1	43
89	First Results on the Excited States in ^{77}Cu . Acta Physica Polonica B, 2016, 47, 889.	0.8	2
90	Decay properties of $^{68,69,70}\text{Mn}$: Probing collectivity up to $N = 44$ in Fe isotopic chain. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 107-112.	4.1	17

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91	\hat{I}^2 decay of Cd129 and excited states in In129. Physical Review C, 2015, 91, .	2.9	20
92	Low-lying intruder and tensor-driven structures in ^{82}Ni revealed by \hat{I}^2 decay at a new experimental startup. Physical Review C, 2015, 91, .	2.9	19
93	Shell closure in ^{85}Sb and ^{136}Te via the \hat{I}^2 decay scheme. Physical Review C, 2015, 91, .	2.9	12
94	Delayed \hat{I}^3 -ray spectroscopy of non-yrast states in ^{126}Te transition probabilities in ^{126}Se near the neutron drip line.	2.9	26
95	Pathway for the Production of Neutron-Rich Isotopes around the ^{126}Ni Shell Closure. Physical Review Letters, 2015, 115, 172503.	2.9	25
96	Island of Inversion towards ^{50}Ni : Publisher's Note: New decay scheme of the ^{85}Sb isomer.	7.8	77
97	Existence of a $\hat{I}^{3/4}$ isomer of ^{78}Ni .	2.9	18
98	Single-particle strength in neutron-rich ^{71}Cu from the $(d,^3\text{He})$ proton pick-up reaction. Journal of Physics: Conference Series, 2015, 580, 012012.	0.4	0
101	New Isomers in Neutron-Rich Cs Isotopes. , 2015, , .		0
102	Systematic Study of \hat{I}^2 -Decay Properties in the Vicinity of ^{78}Ni . , 2015, , .		0
103	Superdeformation in ^{35}S . , 2015, , .		0
104	Evolution of single-particle strength in neutron-rich ^{71}Cu . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 306-310.	4.1	17
105	Shape Evolution in Neutron-Rich Ru Nuclei. , 2015, , .		0
106	\hat{I}^2 -Decay Half-Lives of 110 Neutron-Rich Nuclei across the ^{82}Ni Shell Gap: Implications for the Mechanism and Universality of the Astrophysical \hat{I}^2 Decay Scheme.	7.8	167
107	^{81}Cd via the \hat{I}^2 decay scheme.	4.1	22
108	Study of the Neutron-rich Isotope ^{46}Ar Through Intermediate Energy Coulomb Excitation. Acta Physica Polonica B, 2014, 45, 199.	0.8	7

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109	<p>State in $1 \times 2 \times \text{Proton-Hole}$</p> <p>Monopole-Driven Shell Evolution below the Doubly Magic Nucleus Sn</p> <p>Physical Review Letters, 2014, 112,</p>	7.8	51
110	<p>Study of the multi-nucleon transfer reactions of $^{132}\text{Xe} + ^{198}\text{Pt}$</p> <p>Decay Half-Lives of Sn</p> <p>Physical Review Letters, 2014, 112,</p>	7.8	24
111	<p>Study of the multi-nucleon transfer reactions of $^{136}\text{Xe} + ^{198}\text{Pt}$</p> <p>Decay Half-Lives of Co</p> <p>Physical Review Letters, 2014, 112,</p>	7.8	103
112	<p>Study of the multi-nucleon transfer reactions of $^{136}\text{Xe} + ^{198}\text{Pt}$ for producing exotic heavy nuclei. EPJ Web of Conferences, 2014, 66, 03044.</p>	0.3	7
113	<p>Interference effects between direct and sequential processes in the $^{180}\text{O} + ^{16}\text{O}$ reaction. EPJ Web of Conferences, 2014, 66, 03017.</p>	0.3	4
114	<p>Systematic Study of ^{78}Ni β-Decay Half-Lives in the Vicinity of Ni, 2014, . .</p>		0
115	<p>Study of collisions of $^{136}\text{Xe} + ^{198}\text{Pt}$ for the KEK isotope separator. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 752-755.</p> <p>Isomers in Pd</p>	1.4	20
116	<p>Study of collisions of $^{136}\text{Xe} + ^{198}\text{Pt}$ for the KEK isotope separator. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 752-755.</p> <p>Isomers in Pd</p> <p>Evidence for a Robust Shell Closure at ^{126}Zn</p>	7.8	67
117	<p>Structure of ^{80}Ge revealed by the ^{12}C decay of isomeric states in ^{80}Ga: Triaxiality in the vicinity of ^{78}Ni. Physical Review C, 2013, 87, .</p>	2.9	19
118	<p>Towards the Determination of Superdeformation in ^{42}Ca and ^{44}Ca. Acta Physica Polonica B, 2013, 44, 617.</p> <p>Probing nuclear structures in the vicinity of ^{78}Ni</p>	0.8	6
119	<p>Study of collisions of $^{136}\text{Xe} + ^{198}\text{Pt}$ for the KEK isotope separator. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 752-755.</p> <p>Isomers in Pd</p> <p>Evidence for a Robust Shell Closure at ^{126}Zn</p>	2.9	18
120	<p>Collectivity of neutron-rich Ti isotopes. Physical Review C, 2013, 88, .</p>	2.9	11
121	<p>Shape evolution in ^{116}Ru and ^{118}Ru: Triaxiality and transition between the $O(6)$ and $U(5)$ dynamical symmetries. Physical Review C, 2013, 88, .</p> <p>Quantitative analysis of two-neutron correlations in the ^{116}Ru</p>	2.9	21
122			

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127	Direct lifetime measurement of the 2^+ state in ^{72}Zn . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 679, 61-66.	2.9	17
128	The Orsay Universal Plunger System. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 679, 61-66.	1.6	19
129	Two-Neutron Excitations in light nuclei via the $^{18}\text{O}, ^{16}\text{O}$ reaction at 84 MeV. Journal of Physics: Conference Series, 2011, 312, 092020.	0.4	2
130	Enhancement of the two neutron transfer channel in ^{18}O induced reactions at 84 MeV. Journal of Physics: Conference Series, 2011, 312, 082016.	0.4	26
131	Title is missing!. Acta Physica Polonica B, 2011, 42, 817.	0.8	7
132	Preliminary Study of Two-Neutron States via the $(^{18}\text{O}, ^{16}\text{O})$ Reaction at 84 MeV. , 2011, , .		4
133	Title is missing!. Acta Physica Polonica B, 2011, 42, 537.	0.8	2
134	Isomeric and ground-state properties of ^{171}Pt . Acta Physica Polonica B, 2011, 42, 537.	2.9	13
135	Search for ^{7}H at RIKEN. , 2010, , .	2.9	23
136	Search for ^{7}H at RIKEN. , 2010, , .		1
137	Gamma-Beta-Neutron Detectors Set-Up at ALTO. , 2010, , .		0
138	Identification of ^{173}Au rays from ^{172}Au . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 672, 230-234.	2.9	11
139	Development of Large Deformation in ^{62}Cr . Physical Review Letters, 2009, 102, 012502.	7.8	66
140	Nuclear Astrophysical studies using low-energy RI beams at CRIB. , 2009, , .		0
141	Low-lying non-normal parity states in ^8B measured by proton elastic scattering on ^7Be . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 672, 230-234.	4.1	30
142	Yrast spectroscopy in $^{49-51}\text{Ti}$ via fusion-evaporation reaction induced by a radioactive beam. European Physical Journal A, 2009, 42, 471.	2.5	12
143	Experimental Approach to Explosive Nucleosynthesis with RI Beams. Journal of the Korean Physical Society, 2009, 54, 308-312.	0.7	0
144	Shape transition observed in neutron-rich pf-shell isotopes studied via proton inelastic scattering. Nuclear Physics A, 2008, 805, 400c-407c.	1.5	15

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145	<p> $\frac{d\sigma}{d\Omega} \approx \frac{d\sigma_{\text{el}}}{d\Omega} + \frac{d\sigma_{\text{in}}}{d\Omega}$ </p> <p> Publisher's Note: Large proton contribution to the </p>	2.9	10
146	<p> $\frac{d\sigma}{d\Omega} \approx \frac{d\sigma_{\text{el}}}{d\Omega} + \frac{d\sigma_{\text{in}}}{d\Omega}$ </p> <p> in </p>	2.9	0
147	<p> $\frac{d\sigma}{d\Omega} \approx \frac{d\sigma_{\text{el}}}{d\Omega} + \frac{d\sigma_{\text{in}}}{d\Omega}$ </p> <p> closure in the neutron-rich isotope </p>	2.9	17
148	<p> Evidence for enhanced collectivity in Te-I-Xe nuclei near the </p>	0.4	0
149	<p> $\frac{d\sigma}{d\Omega} \approx \frac{d\sigma_{\text{el}}}{d\Omega} + \frac{d\sigma_{\text{in}}}{d\Omega}$ </p> <p> Projectile fragmentation of </p>	2.9	19
150	<p> Fragmentation cross sections and binding energies of neutron-rich nuclei. Physical Review C, 2007, 76, </p>	2.9	52
151	<p> $\frac{d\sigma}{d\Omega} \approx \frac{d\sigma_{\text{el}}}{d\Omega} + \frac{d\sigma_{\text{in}}}{d\Omega}$ </p> <p> Identification of Excited States in the </p>	7.8	27
152	<p> $\frac{d\sigma}{d\Omega} \approx \frac{d\sigma_{\text{el}}}{d\Omega} + \frac{d\sigma_{\text{in}}}{d\Omega}$ </p> <p> Single-particle resonance levels in ^{14}O examined by </p>	4.1	35
153	<p> $\frac{d\sigma}{d\Omega} \approx \frac{d\sigma_{\text{el}}}{d\Omega} + \frac{d\sigma_{\text{in}}}{d\Omega}$ </p> <p> Study of high-spin states in the ^{48}Ca region by using secondary fusion reactions. European Physical Journal A, 2005, 25, 429-430. </p>	2.5	7
154	<p> Intermediate-energy Coulomb excitation of the neutron-rich Ge isotopes around $N = 50$. European Physical Journal A, 2005, 25, 415-417. </p>	2.5	7
155	<p> DEVELOPMENT OF POSITION SENSITIVE Ge DETECTOR. , 2005, , . </p>		0