

Kathrin Wimmer

List of Publications by Year in descending order

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Version: 2024-02-01

172
papers

3,328
citations

147801

31
h-index

197818

49
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176
all docs

176
docs citations

176
times ranked

1638
citing authors

#	ARTICLE	IF	CITATIONS
1	A first glimpse at the shell structure beyond 54Ca: Spectroscopy of 55K, 55Ca, and 57Ca. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136953. \hat{I}^3 -ray spectroscopy of low-lying yrast and non-yrast states in neutron-rich	4.1	4
2	Isomeric states in neutron-rich nuclei near $N=94$ and $N=95$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136682. \hat{I}^3 -ray spectroscopy of	2.9	6
3	Shape Changes in the Mirror ^{32}Mg Nuclei. Physical Review Letters, 2021, 126, 252501. \hat{I}^3 -ray spectroscopy of	2.9	2
4	Coexisting normal and intruder configurations in ^{32}Mg . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136682. \hat{I}^3 -ray spectroscopy of	7.8	15
5	Investigation of the ground-state spin inversion in the neutron-rich ^{47}Cl and ^{49}Cl isotopes. Physical Review C, 2021, 104, . \hat{I}^3 -ray spectroscopy of	2.9	4
6	Railing Forces Govern Population of Doubly Magic ^{40}Ca from Direct Reactions. Physical Review Letters, 2021, 126, 252501. \hat{I}^3 -ray spectroscopy of	7.8	11
7	Isomeric states in neutron-rich nuclei near $N=80$. Physical Review C, 2021, 104, . \hat{I}^3 -ray spectroscopy of	2.9	6
8	Coexisting normal and intruder configurations in ^{32}Mg . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136682.	4.1	6
9	Investigation of the ground-state spin inversion in the neutron-rich ^{47}Cl and ^{49}Cl isotopes. Physical Review C, 2021, 104, . \hat{I}^3 -ray spectroscopy of	2.9	6
10	Mirror energy differences above the $0f_{7/2}$ shell: First \hat{I}^3 -ray spectroscopy of the $T\hat{a}^{\epsilon}=\hat{a}^{\epsilon}\hat{a}^{\sim 2}$ nucleus ^{56}Zn . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 823, 136784.	4.1	9
11	New energy-degrading beamline for in-flight RI beams, OEDO. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 143-147.	1.4	2
12	Shell evolution of $N\hat{a}^{\epsilon}=\hat{a}^{\epsilon}40$ isotones towards ^{60}Ca : First spectroscopy of ^{62}Ti . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135071.	4.1	32
13	Physics opportunities with the Advanced Gamma Tracking Array: AGATA. European Physical Journal A, 2020, 56, 1.	2.5	32
14	Single-particle structure in neutron-rich Sr isotopes approaching the $N=60$ shape transition. Physical Review C, 2020, 102, .	2.9	7
15	Shell structure of ^{54}S and collapse of the $N=28$ shell closure. Physical Review C, 2020, 102, . Structure of	2.9	10
16	Structure of ^{33}Si and the magicity of the $N=20$ shell. Physical Review C, 2020, 102, . Structure of	2.9	6
17	Structure of ^{30}Mg explored via in-beam \hat{I}^3 -ray spectroscopy. Physical Review C, 2020, 102, .	2.9	4
18	Nuclear mass measurements map the structure of atomic nuclei and accreting neutron stars. Physical Review C, 2020, 101, .	2.9	25

#	ARTICLE	IF	CITATIONS
19	<p>Stable States of ^{92}Zr and ^{94}Zr: Identification of an Oblate Isomer of ^{92}Zr.</p> <p>Journal of Physics: Conference Series, 2020, 1555, 012026.</p>		
20	<p>Spectroscopy of neutron-rich scandium isotopes. Journal of Physics: Conference Series, 2020, 1555, 012026.</p>	0.4	0
21	<p>Two-Neutron Halo is Unveiled in ^{29}F. Physical Review Letters, 2020, 124, 222504.</p>	7.8	57
22	<p>Shape coexistence revealed in the ^{72}Kr isotope through inelastic scattering. European Physical Journal A, 2020, 56, 1.</p>	2.5	16
23	<p>Sequential Nature of ^{78}Ni. Physical Review Letters, 2020, 125, 012501.</p>	7.8	18
24			

#	ARTICLE	IF	CITATIONS
55	The performance of the $\hat{\text{I}}^3$ -ray tracking array GREINA for $\hat{\text{I}}^3$ -ray spectroscopy with fast beams of rare isotopes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 847, 187-198.	1.6	62
56	Are There Signatures of Harmonic Oscillator Shells Far from Stability? First Spectroscopy of ^{110}Zr . Physical Review Letters, 2017, 118, 052501.	7.8	41
57			

#	ARTICLE	IF	CITATIONS
91	New neutron-deficient isotopes from Kr78 fragmentation. Physical Review C, 2016, 93, .	2.9	25
92	Direct Lifetime Measurements of the Excited States in Ni72. Physical Review Letters, 2016, 116, 122502.	7.8	15
93	One-neutron pickup into ^{49}Ca : Bound neutron strength at $g_{9/2}$ spectroscopy of ^{49}Ca . Physical Review C, 2016, 93, .	2.9	14
94	Spectroscopy of ^{46}Ar by the t reaction. Physical Review C, 2016, 93, .	2.9	17
95	Two-Proton Radioactivity of ^{67}Kr . Physical Review C, 2016, 93, .	7.8	69
96	Angle-integrated measurements of the $^{26}\text{Al}(d,n)^{27}\text{Si}$ reaction cross section: a probe of spectroscopic factors and astrophysical resonance strengths. European Physical Journal A, 2016, 52, 1.	2.5	17
97	Experimental study of the $^{66}\text{Ni}(d,p)^{67}\text{Ni}$ one-neutron transfer reaction. Physical Review C, 2015, 91, .	2.9	9
98	Gamow-Teller transitions to ^{45}Ca via the ^{45}Sc reduced transition strengths of low-lying yrast states in chromium isotopes in the vicinity of ^{45}Cr . Physical Review C, 2015, 92, .	2.9	13
99	Reduced transition strengths of low-lying yrast states in chromium isotopes in the vicinity of ^{45}Cr . Physical Review C, 2015, 92, .	2.9	17
100	Spectroscopy of ^{28}Na : Shell evolution toward the drip line. Physical Review C, 2015, 92, .	2.9	8
101	Spectroscopy of ^{19}Ne for the thermonuclear ^{19}O reaction. Physical Review C, 2015, 92, .	2.9	8

#	ARTICLE	IF	CITATIONS
109	Do nuclei go pear-shaped? Coulomb excitation of ^{220}Rn and ^{224}Ra at REX-ISOLDE (CERN). EPJ Web of Conferences, 2015, 93, 01038.	0.3	0
110	Low-energy Coulomb excitation of ^{62}Fe and ^{62}Mn following in-beam decay of ^{62}Mn . European Physical Journal A, 2015, 51, 1.	2.5	7
111	Mass Measurements Demonstrate a Strong $N=28$ Shell Gap in Argon. Physical Review Letters, 2015, 114, 022501.	7.8	34
112	Recent Direct Reaction Experimental Studies with Radioactive Tin Beams. Acta Physica Polonica B, 2015, 46, 537.	0.8	3
113	Single-neutron orbits near ^{78}Ni : Spectroscopy of the $N=49$ isotope ^{79}Zn . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 740, 298-302.	4.1	27
114	Spectroscopy and lifetime measurements in ^{66}Ge , ^{69}Se , and ^{65}Ga using fragmentation reactions. Physical Review C, 2015, 91, .	2.9	3
115	Identification of deformed intruder states in semi-magic Ni . Physical Review Letters, 2015, 115, 022501.	2.9	40
116	Magnetic response of the halo nucleus ^{19}C studied via α -particle transfer. Physical Review Letters, 2015, 115, 022501.	2.9	9
117	Identification of $N=2$ states in ^{19}C and ^{20}C . Physical Review Letters, 2015, 115, 022501.	2.9	42
118	IsoTagger: Identification of isomeric nuclear states produced in fragmentation reactions with radioactive beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 769, 65-71.	1.6	8
119	Measurement of astrophysically important excitation energies of ^{58}Zn with GREINA. EPJ Web of Conferences, 2014, 66, 07013.	0.3	0
120	Evolution of collectivity in the ^{78}Ni region: Coulomb excitation of ^{74}Ni at intermediate energies.. EPJ Web of Conferences, 2014, 66, 02066.	0.3	2
121	Elastic breakup cross sections of well-bound nucleons. Physical Review C, 2014, 90, .	2.9	9
122	Study of the deformation-driving $d_{5/2}$ orbital in ^{67}Ni using one-neutron transfer reactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 533-538.	4.1	16
123	Isotopic $^{32}\text{S}/^{33}\text{S}$ ratio as a diagnostic of presolar grains from novae. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 737, 314-319.	4.1	17
124	Lifetime measurements of the yrast $^{8-}$ state in ^{40}Ca . Physical Review C, 2014, 90, 014307.	2.9	5
125	Yrast ^{60}Ni and ^{60}Zn states. Physical Review C, 2014, 90, 014307.	2.9	35
126	Strength of the $E_R=127\text{keV}$, $^{26}\text{Al}(p,^3\text{Si})^{27}\text{Si}$ resonance. Physical Review C, 2014, 90, .	2.9	4

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127	Coulomb excitation of ^{29}Na . Mapping the borders of the island of inversion. Physical Review C, 2014, 89, .	2.9	16
128	Quadrupole Transition Strength in the ^{74}Ni Nucleus and Core Polarization Effects in the Neutron-Rich Ni Isotopes. Physical Review Letters, 2014, 113, 182501.	7.8	15
129	Evolution of Collectivity in ^{72}Kr . Determining the ^{72}Kr Process Flow through ^{72}Ni . Physical Review Letters, 2014, 113, 182501.	7.8	61
130	Transition Strengths from ^{56}Ti to ^{56}Cr . Gamow-Teller Transition Strengths from ^{56}Ti to ^{56}Cr . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 733, 52-57.	7.8	32
131	Collectivity in ^{46}Ca studied via lifetime measurements in ^{70}Br and ^{68}Se . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 733, 52-57.	4.1	25
132	Low-energy magnetic radiation: Deviations from GOE. , 2014, , .		3
134	Determination of the $B(E3, 0^+ \rightarrow 3^+)$ -excitation strength in octupole-correlated nuclei near $A \approx 224$ by the means of Coulomb excitation at REX-ISOLDE. Journal of Physics: Conference Series, 2014, 533, 012007.	0.4	2
135	Configuration mixing and relative transition rates between low-spin states in ^{68}Ni . Physical Review C, 2013, 88, .	2.9	60
136	Shape dynamics in neutron-rich Kr isotopes: Coulomb excitation of ^{92}Kr , ^{94}Kr and ^{96}Kr . Nuclear Physics A, 2013, 899, 1-28.	1.5	40
137	Characterization of low energy radioactive beams using direct reactions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 714, 176-187.	1.6	3
138	Studies of pear-shaped nuclei using accelerated radioactive beams. Nature, 2013, 497, 199-204.	27.8	268
139	The Miniball spectrometer. European Physical Journal A, 2013, 49, 1.	2.5	126
140	Recent results on intermediate-energy nucleon knockout reactions. , 2013, , .		0
141	Mirror Energy Differences at Large Isospin Studied through Direct Two-Nucleon Knockout. Physical Review Letters, 2013, 111, 072501.	7.8	24
142	Experimental study of bound states in low-energy ^{11}Be through ^{11}Be . Physical Review Letters, 2013, 111, 072501.		

#	ARTICLE	IF	CITATIONS
145	<p>Quadrupole collectivity in neutron-deficient Sn nuclei: $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ display}=\text{"inline"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 104 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle \text{Sn}$ and the role of proton excitations. <i>Physical Review Letters</i> 101, 192701 (2008)</p> <p>Ray Emission from Novae Affected by Interference Effects in the $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ display}=\text{"inline"} \rangle \langle \text{mml:mi} \rangle I^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$</p>	2.9	59
146	<p>$\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ display}=\text{"inline"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \text{ mathvariant}=\text{"bold"} \rangle F \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 18 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mo} \rangle$</p>		

#	ARTICLE	IF	CITATIONS
163	Publisher's Note: Identification of the slow E3 transition $136\text{Cs} \rightarrow 136\text{Ba}$ with conversion electrons [Phys. Rev. C 84, 014329 (2011)]. Physical Review C, 2011, 84, .	2.9	1
164	Improving the $^{33}\text{S}(p, \alpha)^{30}\text{Si}$ Reaction Rate for Models of Classical Nova Explosions. , 2011, , .		0
165	Discovery of the Shape Coexisting 0^+ State in ^{20}Mg by a Two-Neutron Transfer Reaction $^{20}\text{Mg} + ^2\text{He} \rightarrow ^{18}\text{Mg} + \alpha$	7.8	138
166	Positive parity states in ^{208}Pb excited by the proton decay of the isobaric analog intruder resonance $^{208}\text{Pb} \rightarrow ^{207}\text{Pb} + p$	2.9	20
167	First identification of large electric monopole strength in well-deformed rare earth nuclei. , 2009, , .		5
168	Transfer Reactions on Neutron-rich Nuclei at REX-ISOLDE. , 2009, , .		4
169	New ^{34}Cl proton-threshold Shape Coexistence Near Neutron Number $Z = N$ $^{34}\text{Cl} \rightarrow ^{33}\text{Cl} + p$	2.9	14
170	Identification of the $E < 0$ Decay from the Deformed First Excited ^{61}Mn $^{61}\text{Mn} \rightarrow ^{60}\text{Mn} + \gamma$	7.8	60
171	In-trap decay of ^{61}Mn and Coulomb excitation of $^{61}\text{Mn}/^{61}\text{Fe}$. European Physical Journal A, 2009, 42, 401.	2.5	19
172	Study of the ^{133}Ba nucleus with the (d, p) reaction. European Physical Journal A, 2009, 41, 299-313.	2.5	8