

Claus MÃ¼ller-Gattermann

List of Publications by Year in descending order

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papers

597
citations

623734

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588
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#	ARTICLE	IF	CITATIONS
1	Reduced $\hat{\beta}$ time walk to below 50 ps using the multiplexed-start and multiplexed-stop fast-timing technique with LaBr ₃ (Ce) detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 823, 72-82.	1.6	39
2	The $\hat{\beta}$ -ray spectrometer HORUS and its applications for nuclear astrophysics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 754, 94-100.	1.6	37
3	Enhanced collectivity along the N = Z line: Lifetime measurements in ^{44}Ti , ^{48}Cr , and ^{52}Fe . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 599-606.	7.8	34
4	Enhanced collectivity along the N = Z line: Lifetime measurements in ^{44}Ti , ^{48}Cr , and ^{52}Fe . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 599-606.	4.1	26
5	A revised $B(E2; 2^+ \rightarrow 0^+)$ value in the semi-magic nucleus ^{210}Po . European Physical Journal A, 2017, 53, 1.	2.9	18
6	Low-lying isovector excitations of ^{212}Po . Physical Review C, 2016, 93, .	2.9	17
7	A new dedicated plunger device for the GALILEO $\hat{\beta}$ -ray detector array. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 920, 95-99.	1.6	16
8	Pairing-quadrupole interplay in the neutron-deficient tin nuclei: First lifetime measurements of low-lying states in ^{106}Sn , ^{108}Sn . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 806, 135474.	4.1	16
9	Low collectivity of the $2^+ \rightarrow 0^+$ transition in ^{212}Po . Physical Review C, 2017, 96, .	2.9	15
10	Lifetimes in ^{211}At and their implications for the nuclear structure above ^{208}Pb . Physical Review C, 2019, 99, .	2.9	15
11	Tests of collectivity in ^{98}Zr by absolute transition rates. Physical Review C, 2020, 102, .	2.9	15
12	On the time response of background obtained in $\hat{\beta}$ -ray spectroscopy experiments using LaBr ₃ (Ce) detectors with different shielding. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 811, 42-48.	1.6	14
13	High-spin structure in the transitional nucleus ^{131}Xe : Competitive neutron and proton alignment in the vicinity of the N=82 shell closure. Physical Review C, 2018, 98, .	2.9	14
14	Lifetime measurements in ^{52}Ti to study shell evolution toward N=32. Physical Review C, 2019, 100, .	2.9	14
15	Testing <i>ab initio</i> nuclear structure in neutron-rich nuclei: Lifetime measurements of second state in ^{16}C and ^{17}O . Physical Review C, 2017, 96, .	2.9	14
16	High-spin structures in ^{132}Xe and ^{133}Xe and evidence for isomers along the N=79 isotones. Physical Review C, 2017, 96, .	2.9	12
17	Shape coexistence and collective low-spin states in ^{112}Sn and ^{114}Sn studied with the $\hat{\beta}$ -ray spectrometer HORUS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 754, 94-100.	1.6	37
18	Enhanced collectivity along the N = Z line: Lifetime measurements in ^{44}Ti , ^{48}Cr , and ^{52}Fe . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 599-606.	7.8	34

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19	Lifetime measurements in the even-even Cd isotopes. <i>Physical Review C</i> , 2021, 104, .	2.9	12
20	The first year of operation of CologneAMS; performance and developments. <i>EPJ Web of Conferences</i> , 2013, 63, 03006.	0.3	11
21	Radiocarbon measurements of small gaseous samples at CologneAMS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 406, 283-286.	1.4	11
22	Isomer spectroscopy in Ba and high-spin structure of Ba isotones. <i>Physical Review C</i> , 2019, 100, .	2.9	11
23	Isomer spectroscopy in Ba isotones and Xe isotones. <i>Physical Review C</i> , 2019, 100, .	2.9	10
24	Method developments for accelerator mass spectrometry at CologneAMS, $^{53}\text{Mn}/^3\text{He}$ burial dating and ultra-small $^{14}\text{CO}_2$ samples. <i>Global and Planetary Change</i> , 2020, 184, 103053.	3.5	10
25	Solving the Puzzles of the Decay of the Heaviest Known Proton-Emitting Nucleus Bi . <i>Physical Review Letters</i> , 2021, 127, 202501.	7.8	10
26	Evolution of collectivity in the $N=100$ isotones near $\text{Yb}170$. <i>Physical Review C</i> , 2017, 95, .	2.9	9
27	Shape coexistence in $\text{Hg}178$. <i>Physical Review C</i> , 2019, 99, .	2.9	9
28	Lifetimes of the $41+$ states of $\text{Po}206$ and $\text{Po}204$: A study of the transition from noncollective seniority-like mode to collectivity. <i>Physical Review C</i> , 2019, 100, .	2.9	9
29	Improvements in the measurement of small $^{14}\text{CO}_2$ samples at CologneAMS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 439, 70-75.	1.4	9
30	Lifetime measurements of Er : Evolution of collectivity in the rare-earth region. <i>Physical Review C</i> , 2020, 102, .	2.9	9
31	Low-lying electromagnetic transition strengths in Pt . <i>Physical Review C</i> , 2018, 97, .	2.9	6
32	The first ($^{53}\text{Mn}/^{55}\text{Mn}$) isotopic ratio measurements at the Cologne FN-Tandem Accelerator. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018, 437, 87-92.	1.4	6
33	Evidence of octupole-phonons at high spin in ^{207}Pb . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 797, 134797.	4.1	6
34	Probing isospin symmetry in the ($^{50}\text{Fe}, ^{50}\text{Mn}, ^{50}\text{Cr}$) isobaric triplet via electromagnetic transition rates. <i>Physical Review C</i> , 2019, 99, .	2.9	6
35	Accessing tens-to-hundreds femtoseconds nuclear state lifetimes with low-energy binary heavy-ion reactions. <i>European Physical Journal A</i> , 2021, 57, 1.	2.5	6
36	Lifetime measurements with improved precision in ^{30}S and possible influence of large-scale clustering on the appearance of strongly deformed states. <i>Physical Review C</i> , 2017, 96, .	2.9	5

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37	Cross-shell excitations from the fp shell: Lifetime measurements in Zn61. Physical Review C, 2017, 96, .	2.9	5
38	Identification of high-spin proton configurations in Ba136 and Ba137. Physical Review C, 2019, 99, .	2.9	5
39	Lifetime measurement of excited states in ^{144}Ce : Enhanced $E2$ transitions. Physical Review C, 2019, 99, .	2.9	5
40	Lifetime measurements using a plunger device and the EUCLIDES Si array at the GALILEO ^{13}C -ray spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 979, 164345.	1.6	5
41	Lifetime measurements of excited states in neutron-rich ^{53}Ti : Benchmarking effective enhanced quadrupole collectivity in doubly-magic ^{56}Ni . Physical Review C, 2020, 102, .	2.9	5
42	Lifetime measurements of excited states in ^{56}Ni . Physical Review C, 2020, 102, .	4.1	5
43	In-flight production of an isomeric beam of ^{16}N . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1032, 166612.	1.6	5
44	A new beam profile monitor and time of flight system for CologneAMS. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 410-415.	1.4	4
45	A dedicated AMS setup for medium mass isotopes at the Cologne FN tandem accelerator. Nuclear Instruments & Methods in Physics Research B, 2017, 406, 287-291.	1.4	4
46	Millisecond ^{23}N isomers in the ^{23}N isotones. Physical Review C, 2019, 99, .	2.9	4
47	New lifetime measurements for the lowest quadrupole states in $^{20,22}\text{Ne}$ and possible explanations of the high collectivity of the depopulating $E2$ transitions. Physical Review C, 2019, 100, .	2.9	4
48	Lifetime measurements in ^{44}Ti . Physical Review C, 2020, 102, .	2.9	4
49	Evolution of collectivity in ^{208}Po . Physical Review C, 2021, 104, .	2.9	4
50	Evolution of collectivity in ^{118}Xe . Physical Review C, 2020, 102, .	2.9	4
51	Lifetime measurement of excited states in ^{46}Ti . European Physical Journal A, 2019, 55, 1.	2.5	3
52	Operating the 120° Dipol-Magnet at the CologneAMS in a gas-filled mode. Nuclear Instruments & Methods in Physics Research B, 2019, 438, 184-188.	1.4	3
53	Performing the differential decay curve method on ^{13}C -ray transitions with unresolved Doppler-shifted components. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 950, 162965.	1.6	3
54	Experimental evidence for low-lying quadrupole isovector excitation of ^{208}Po . European Physical Journal A, 2020, 56, 1.	2.5	3

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55	Triaxiality in the mid-shell nucleus Pd112. Physical Review C, 2021, 103, .	2.9	3
56	Study of Quadrupole Correlations in $N=Z=50$ Region via Lifetime Measurements. Acta Physica Polonica B, 2017, 48, 331.	0.8	3
57	Structural investigation of neutron-deficient Pt isotopes: the case of ^{178}Pt . EPJ Web of Conferences, 2019, 223, 01016.	0.3	2
58	A charge plunger device to measure the lifetimes of excited nuclear states where transitions are dominated by internal conversion. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 979, 164454.	1.6	2
59	Evolution of the structure of the $\{4_{-1}^{+}\}$ states in Po isotopes. Journal of Physics: Conference Series, 2020, 1555, 012019.	0.4	2
60	Search for mixed-symmetry states of nuclei in the vicinity of the double-magic nucleus ^{208}Pb . EPJ Web of Conferences, 2016, 107, 03004.	0.3	1
61	Toward lifetime and gfactor measurements of short-lived states in the vicinity of ^{208}Pb . Physica Scripta, 2017, 92, 054004.	2.5	1
62	Enhanced collectivity along the $N = Z$ line: lifetime measurements in ^{44}Ti , ^{48}Cr , and ^{52}Fe . Journal of Physics: Conference Series, 2018, 966, 012029.	0.4	1
63	Preliminary results of lifetime measurements in neutron-rich ^{53}Ti . EPJ Web of Conferences, 2019, 223, 01022.	0.3	1
64	On the imprecisions that may be induced when applying the Blaugrund approximation for the analysis of Doppler-shift attenuation lifetime measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 915, 40-46.	1.6	1
65	Collectivity of the 21^{+} state in $Z=82$ even-even nuclei probed by a ratio involving dynamic and static electromagnetic E2 moments: Evolution of the quadrupole degrees of freedom and a new signature for shape coexistence. Physical Review C, 2020, 102, .	2.9	1
66	Lifetime measurements of yrast states in ^{178}Pt using the charge plunger method with a recoil separator. European Physical Journal A, 2021, 57, 1.	2.5	1
67	Spectroscopy of Neutron-rich Nitrogen Isotopes with AGATA+PARIS+VAMOS. Acta Physica Polonica B, 2020, 51, 709.	0.8	1
68	Search for mixed-symmetry states in ^{212}Po . Journal of Physics: Conference Series, 2016, 724, 012023.	0.4	0
69	Lifetimes and electromagnetic transition strength in ^{124}Ba . EPJ Web of Conferences, 2018, 194, 03004.	0.3	0
70	Low collectivity of the first 2^{+} states of $^{212,210}\text{Po}$. Journal of Physics: Conference Series, 2018, 1023, 012019.	0.4	0
71	Lifetime measurements in ^{182}Pt using γ fast-timing. European Physical Journal A, 2021, 57, 1.	2.5	0
72	Strongly enhanced quadrupole deformation in a class of $N \approx Z$ nuclei driven by large-scale clustering? *. Chinese Physics C, 2021, 45, 064002.	3.7	0

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73	Spectroscopy of Neutron-rich C, O, N and F Isotopes with the AGATA+PARIS+VAMOS Setup at GANIL. Acta Physica Polonica B, 2019, 50, 625.	0.8	0
74	Determination of Lifetimes of Excited States in Neutron-rich ^{20}O Isotope from Experiment with the AGATA+PARIS+VAMOS Setup. Acta Physica Polonica B, 2019, 50, 615.	0.8	0
75	Lifetime measurements of the low-lying excited states of ^{208}Po . Journal of Physics: Conference Series, 2020, 1555, 012020.	0.4	0
76	Short-range Lifetime Measurements for Deep-inelastic Reaction Products: the (^{19}O) Test Case. Acta Physica Polonica B, 2020, 51, 699.	0.8	0
77	Simple new methods for deducing lifetimes in recoil distance Doppler-shift measurements. Review of Scientific Instruments, 2022, 93, 033301.	1.3	0