

# Claus MÃ¼ller-Gattermann

## List of Publications by Year in descending order

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Version: 2024-02-01

77  
papers

597  
citations

623734

14  
h-index

752698

20  
g-index

78  
all docs

78  
docs citations

78  
times ranked

588  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simple new methods for deducing lifetimes in recoil distance Doppler-shift measurements. Review of Scientific Instruments, 2022, 93, 033301.	1.3	0
2	In-flight production of an isomeric beam of $^{16}\text{N}$ . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1032, 166612.	1.6	5
3	Lifetime measurements of yrast states in $^{178}\text{Pt}$ using the charge plunger method with a recoil separator. European Physical Journal A, 2021, 57, 1.	2.5	1
4	Triaxiality in the mid-shell nucleus Pd112. Physical Review C, 2021, 103, .	2.9	3
5	Accessing tens-to-hundreds femtoseconds nuclear state lifetimes with low-energy binary heavy-ion reactions. European Physical Journal A, 2021, 57, 1.	2.5	6
6	Lifetime measurements in $^{182}\text{Pt}$ using $\gamma$ - $\gamma$ fast-timing. European Physical Journal A, 2021, 57, 1.	2.5	0
7	Strongly enhanced quadrupole deformation in a class of $N\%Z$ nuclei driven by large-scale clustering? * Chinese Physics C, 2021, 45, 064002.	3.7	0
8	Microscopic structure of the one-phonon states of $^{208}\text{Po}$ . Physical Review C, 2021, 104, .	2.9	4
9	Lifetime measurements in the even-even $^{208}\text{Po}$ and $^{210}\text{Po}$ . Physical Review C, 2021, 104, .	4.1	5
10	Lifetime measurements in the even-even $^{102}\text{Cd}$ isotopes. Physical Review C, 2021, 104, .	2.9	12
11	Performing the differential decay curve method on $^{108}\text{Bi}$ isotopes. Physical Review C, 2021, 104, .	7.8	10
12	Performing the differential decay curve method on $^{137}\text{Ba}$ $\beta$ -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
13	Method developments for accelerator mass spectrometry at CologneAMS, $^{53}\text{Mn}/^3\text{He}$ burial dating and ultra-small $^{14}\text{CO}_2$ samples. Global and Planetary Change, 2020, 184, 103053.	3.5	10
14	Experimental evidence for low-lying quadrupole isovector excitation of $^{208}\text{Po}$ . European Physical Journal A, 2020, 56, 1.	2.5	3
15	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
16	Lifetime measurements of $^{162}\text{Er}$ in the rare-earth region. Physical Review C, 2020, 102, .	2.9	9
17	Lifetime measurement of excited states in $^{144}\text{Ce}$ : Enhanced $E_3$ strengths in a candidate for octupole deformation. Physical Review C, 2020, 102, .	2.9	5
18	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

#	ARTICLE	IF	CITATIONS
19	Lifetime measurements using a plunger device and the EUCLIDES Si array at the GALILEO $\gamma$ -ray spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 979, 164345.	1.6	5
20	Evolution of the structure of the $4_{1}^{+}$ states in Po isotopes. Journal of Physics: Conference Series, 2020, 1555, 012019.	0.4	2
21	Tests of collectivity in $Zr$ by absolute transition rates. Physical Review C, 2020, 102, .	2.9	15
22	Lifetime measurements of excited states in neutron-rich $Ti$ : Benchmarking effective shell-model interactions. Physical Review C, 2020, 102, .	2.9	5
23	Lifetime measurements in $Ti$ . Physical Review C, 2020, 102, .	2.9	4
24	Pairing-quadrupole interplay in the neutron-deficient tin nuclei: First lifetime measurements of low-lying states in $106,108Sn$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 806, 135474.	4.1	16
25	Evolution of collectivity in $C$ state in $C$ . Physical Review C, 2020, 102, .	2.9	14
26	Evolution of collectivity in $Xe$ . Physical Review C, 2020, 102, .	2.9	4
27	Spectroscopy of Neutron-rich Nitrogen Isotopes with AGATA+PARIS+VAMOS. Acta Physica Polonica B, 2020, 51, 709.	0.8	1
28	Lifetime measurements of the low-lying excited states of $208Po$ . Journal of Physics: Conference Series, 2020, 1555, 012020.	0.4	0
29	Short-range Lifetime Measurements for Deep-inelastic Reaction Products: the $^{19}O$ Test Case. Acta Physica Polonica B, 2020, 51, 699.	0.8	0
30	New lifetime measurements for the lowest quadrupole states in $Ne_{20,22}$ and possible explanations of the high collectivity of the depopulating E2 transitions. Physical Review C, 2019, 100, .	2.9	4
31	Isomer spectroscopy in $Ba$ and high-spin structure of $Ba$ . Physical Review C, 2019, 100, .	2.9	11
32	Evidence of octupole-phonons at high spin in $207Pb$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134797.	4.1	6
33	A new dedicated plunger device for the GALILEO $\gamma$ -ray detector array. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 928, 95-99.	1.6	16
34	Shape coexistence in $Hg_{178}$ . Physical Review C, 2019, 99, .	2.9	9
35	Lifetime measurement of excited states in $46Ti$ . European Physical Journal A, 2019, 55, 1.	2.5	3
36	Probing isospin symmetry in the $(Fe_{50}, Mn_{50}, Cr_{50})$ isobaric triplet via electromagnetic transition rates. Physical Review C, 2019, 99, .	2.9	6

#	ARTICLE	IF	CITATIONS
37	Lifetimes in At211 and their implications for the nuclear structure above Pb208. Physical Review C, 2019, 99, .	2.9	15
38	Preliminary results of lifetime measurements in neutron-rich 53Ti. EPJ Web of Conferences, 2019, 223, 01022.	0.3	1
39	Structural investigation of neutron-deficient Pt isotopes: the case of 178Pt. EPJ Web of Conferences, 2019, 223, 01016.	0.3	2
40	Lifetime measurements in Ti52,54 to study shell evolution toward N=32. Physical Review C, 2019, 100, .	2.9	14
41	Lifetimes of the 41+ states of Po206 and Po204 : A study of the transition from noncollective seniority-like mode to collectivity. Physical Review C, 2019, 100, .	2.9	9
42	Identification of high-spin proton configurations in Ba136 and Ba137. Physical Review C, 2019, 99, .	2.9	5
43	Improvements in the measurement of small 14CO2 samples at CologneAMS. Nuclear Instruments & Methods in Physics Research B, 2019, 439, 70-75.	1.4	9
44	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
45	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
46	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
47	Determination of Lifetimes of Excited States in Neutron-rich $^{20}\text{O}$ Isotope from Experiment with the AGATA+PARIS+VAMOS Setup. Acta Physica Polonica B, 2019, 50, 615.	0.8	0
48	Low-lying electromagnetic transition strengths in $\text{Pt}$ . Physical Review C, 2018, 97, .	2.9	6
49	Lifetimes and electromagnetic transition strength in 124Ba. EPJ Web of Conferences, 2018, 194, 03004.	0.3	0
50	Enhanced collectivity along the N = Z line: lifetime measurements in 44Ti, 48Cr, and 52Fe. Journal of Physics: Conference Series, 2018, 966, 012029.	0.4	1
51	The first (53Mn/55Mn) isotopic ratio measurements at the Cologne FN-Tandem Accelerator. Nuclear Instruments & Methods in Physics Research B, 2018, 437, 87-92.	1.4	6
52	Evidence for Coexisting Shapes through Lifetime Measurements in $\text{Zr}$ . Physical Review C, 2018, 98, .	7.8	34
53	Low collectivity of the first $2^+$ states of $^{212,210}\text{Po}$ . Journal of Physics: Conference Series, 2018, 1023, 012019.	2.9	4
54	Low collectivity of the first $2^+$ states of $^{212,210}\text{Po}$ . Journal of Physics: Conference Series, 2018, 1023, 012019.	0.4	0

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55	<p>Simple existence and collective low-spin states in <math>S_n</math></p> <p>studied with the</p>		

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73	Reduced $\hat{1}^3\hat{a}\hat{e}\hat{1}^3$ time walk to below 50 ps using the multiplexed-start and multiplexed-stop fast-timing technique with LaBr3(Ce) detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 823, 72-82.	1.6	39
74	On the time response of background obtained in $\hat{1}^3$ -ray spectroscopy experiments using LaBr3(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
75	The $\hat{1}^3$ -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
76	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
77	The first year of operation of CologneAMS; performance and developments. EPJ Web of Conferences, 2013, 63, 03006.	0.3	11