

Kathrin Gäbel

List of Publications by Year in descending order

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Version: 2024-02-01

138
papers

2,000
citations

257450

24
h-index

265206

42
g-index

139
all docs

139
docs citations

139
times ranked

2864
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of the neutron time-of-flight facility n_TOF at CERN. European Physical Journal A, 2013, 49, 1.	2.5	205
2	Searching a dark photon with HADES. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 731, 265-271.	4.1	113
3	Physics book: CRYRING@ESR. European Physical Journal: Special Topics, 2016, 225, 797-882.	2.6	101
4	Be^{7+}	7.8	94
5	Origin of the low-mass electron pair excess in light nucleus–nucleus collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 690, 118-122.	4.1	85
6	The new vertical neutron beam line at the CERN n_TOF facility design and outlook on the performance. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 799, 90-98.	1.6	82
7	High-accuracy determination of the neutron flux at n_TOF. European Physical Journal A, 2013, 49, 1.	2.5	71
8	Partial wave analysis of the reaction $p(3.5\text{ GeV}) + p \rightarrow pK + \Lambda$ to search for the Λ - Σ bound state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 242-248.	4.1	69
9	Reactions on Oxygen Isotopes: Observation of Isospin Independence of the Reduced Single-Particle Strength. Physical Review Letters, 2018, 120, 052501.	7.8	69
10	The production of proton-rich isotopes beyond iron: The Λ^3 -process in stars. International Journal of Modern Physics E, 2016, 25, 1630003.	1.0	63
11	Be^{7+}	7.8	58
12	First measurement of proton-induced low-momentum dielectron radiation off cold nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 715, 304-309.	4.1	42
13	High-accuracy determination of the neutron flux in the new experimental area n_TOF-EAR2 at CERN. European Physical Journal A, 2017, 53, 1.	2.5	41
14	Neutron-induced cross sections. European Physical Journal Plus, 2018, 133, 1.	2.6	41
15	Approaching the Gamow Window with Stored Ions: Direct Measurement of $\text{Xe}^{124}(p, \Lambda^3)$ in the ESR Storage Ring. Physical Review Letters, 2019, 122, 092701.	7.8	38
16	Statistical hadronization model analysis of hadron yields in $p + \text{Nb}$ and $\text{Ar} + \text{KCl}$ at SIS18 energies. European Physical Journal A, 2016, 52, 1.	2.5	37
17	Lambda hyperon production and polarization in collisions of $p(3.5\text{ GeV}) + \text{Nb}$. European Physical Journal A, 2014, 50, 1.	2.5	31
18	Baryon resonance production and dielectron decays in proton-proton collisions at 3.5 GeV. European Physical Journal A, 2014, 50, 1.	2.5	29

#	ARTICLE	IF	CITATIONS
19	<p>http://www.w3.org/1998/Math/MathML display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi mathvariant="normal">î</mml:mi></mml:mrow><mml:mrow><mml:mo>â~</mml:mo></mml:mrow></mml:msup></mml:mrow></mml:math> in Collisions of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">p</mml:mi><mml:mo</p>		

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37	Effective proton-neutron interaction near the drip line from unbound states in F . <i>Physical Review C</i> , 2017, 96.	2.9	14
38	Experimental setup and procedure for the measurement of the ${}^7\text{Be}(n,p){}^7\text{Li}$ reaction at n_TOF. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 887, 27-33.	1.6	14
39	Measurement of the ${}^{63}\text{Zn}$ activation and time-of-flight. <i>Physical Review C</i> , 2017, 95, .	2.9	13
40	Measurement of the ${}^{70}\text{Ge}$ cross section up to 300 keV at the CERN n_TOF facility. <i>Physical Review C</i> , 2019, 100, .	2.9	13
41	Measurement of the ${}^{154}\text{Gd}(n,{}^1\text{I}^3)$ cross section and its astrophysical implications. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 804, 135405.	4.1	12
42	Nucleosynthesis simulations for the production of the p-nuclei ${}^{92}\text{Mo}$ and ${}^{94}\text{Mo}$ in a Supernova type II model. <i>EPJ Web of Conferences</i> , 2015, 93, 03006.	0.3	11
43	Systematic investigation of projectile fragmentation using beams of unstable B and C isotopes. <i>Physical Review C</i> , 2016, 93, .	2.9	11
44	Measurement of ${}^{73}\text{Ge}(n,{}^1\text{I}^3)$ cross sections and implications for stellar nucleosynthesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 790, 458-465.	4.1	11
45	Determination of the neutron-capture rate of C17 for r-process nucleosynthesis. <i>Physical Review C</i> , 2017, 95.	2.9	10
46	Destruction of the cosmic ${}^1\text{I}^3$ -ray emitter ${}^{26}\text{Al}$ in massive stars: Study of the key ${}^{13}\text{B}$ via Coulomb Dissociation for Nucleosynthesis towards the r-Process. <i>Nuclear Data Sheets</i> , 2014, 120, 197-200.	2.2	9
47	Performance of timing resistive plate chambers with relativistic neutrons from 300 to 1500 MeV. <i>Journal of Instrumentation</i> , 2015, 10, C02034-C02034.	1.2	9
48	Nuclear astrophysics with radioactive ions at FAIR. <i>Journal of Physics: Conference Series</i> , 2016, 665, 012044.	0.4	9
49	Strong Neutron Pairing in core+4n Nuclei. <i>Physical Review Letters</i> , 2018, 120, 152504.	7.8	9
50	Structure of ${}^{13}\text{Be}$ studied in proton knockout from ${}^{14}\text{B}$. <i>Physical Review Letters</i> , 2017, 118, 082501.	2.9	9
51	Performance of timing Resistive Plate Chambers with protons from 200 to 800 MeV. <i>Journal of Instrumentation</i> , 2015, 10, C01043-C01043.	1.2	8
52	Coulomb dissociation of ${}^{20}\text{N}$. <i>Physical Review Letters</i> , 2017, 118, 082501.	2.9	8
53	Measurement and resonance analysis of the ${}^{30}\text{S}$ cross section at the CERN n_TOF facility in the ener. <i>Physical Review C</i> , 2018, 97, .	2.9	8
54			

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55	Neutron-skin thickness from the study of the anti-analog giant dipole resonance. , 2012, , .		7
56	The HADES-at-FAIR project. Physics of Atomic Nuclei, 2012, 75, 589-593.	0.4	7
57	Thermal neutron capture cross section of the radioactive isotope ^{60}Fe . Physical Review C, 2015, 92, .	2.9	7
58	Measurement of the neutron capture cross section of the fissile isotope ^{235}U with the CERN n_TOF total absorption calorimeter and a fission tagging based on micromegas detectors. EPJ Web of Conferences, 2017, 146, 11021.	0.3	7
59	Investigation of the $^{240}\text{Pu}(n,\gamma)^{241}\text{Pu}$ reaction. Physical Review C, 2018, 97, .	2.9	7
60	Electron capture of ^{126}Mg in collisions with ^2H molecules in the energy range between 66.7-keV and 171-keV. Physical Review C, 2020, 102, .	2.5	7
61	Measurement of the $^{240}\text{Pu}(n,f)$ cross-section at the CERN n_TOF facility: First results from experimental area II (EAR-2). EPJ Web of Conferences, 2017, 146, 04030.	0.3	6
62	^{171}Yb -line intensity of ^{171}Yb determined via neutron activation. Physical Review C, 2018, 97, .	2.9	6
63	Destruction of the cosmic ^{13}C -ray emitter ^{13}C in massive stars: Study of the key $^{13}\text{C}(n,\alpha)^{10}\text{B}$ reaction. Physical Review C, 2021, 104, .	2.9	6
64	^{171}Yb in proton-proton collisions at 171-keV. Physical Review C, 2015, 92, .	2.9	5
65	Monte Carlo simulations and n-p differential scattering data measured with Proton Recoil Telescopes. EPJ Web of Conferences, 2020, 239, 01024.	0.3	5
66	Measurement of the $^{72}\text{Ge}(n,\gamma)^{73}\text{Ge}$ cross section over a wide neutron energy range at the CERN n_TOF facility. Physical Review C, 2021, 103, .	2.9	5
67	First Results of the $^{140}\text{Ce}(n,\gamma)^{141}\text{Ce}$ Cross-Section Measurement at n_TOF. Universe, 2021, 7, 200.	2.5	4
68	Measurement of the ^{244}Cm capture cross sections at both CERN n_TOF experimental areas. EPJ Web of Conferences, 2020, 239, 01034.	0.3	4
69	Setup for the measurement of the $^{235}\text{U}(n, f)$ cross section relative to n-p scattering up to 1 GeV. EPJ Web of Conferences, 2020, 239, 01008.	0.3	4
70	The CERN n_TOF facility: a unique tool for nuclear data measurement. EPJ Web of Conferences, 2016, 122, 05001.	0.3	3
71	Dissemination of data measured at the CERN n_TOF facility. EPJ Web of Conferences, 2017, 146, 07002.	0.3	3
72	Nuclear astrophysics at FRANZ. Journal of Physics: Conference Series, 2018, 940, 012024.	0.4	3

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73	Measurement of the ^{244}Cm and ^{246}Cm neutron-induced capture cross sections at the n_TOF facility. EPJ Web of Conferences, 2019, 211, 03008.	0.3	3
74	Preliminary results on the ^{233}U capture cross section and alpha ratio measured at n_TOF (CERN) with the fission tagging technique. EPJ Web of Conferences, 2019, 211, 03007.	0.3	3
75	Investigation of $^{54}\text{Fe}(n, \hat{p})^{55}\text{Fe}$ and $^{35}\text{Cl}(n, \hat{p})^{36}\text{Cl}$ reaction cross sections at keV energies by Accelerator Mass Spectrometry. EPJ Web of Conferences, 2020, 232, 02005.	0.3	3
76	Status and perspectives of the neutron time-of-flight facility n_TOF at CERN. EPJ Web of Conferences, 2020, 239, 17001.	0.3	3
77	Measurement of the $^{76}\text{Ge}(n, \hat{p})^{76}\text{Ga}$ cross section at the n_TOF facility at CERN. Physical Review C, 2021, 104, .	2.9	3
78	The measurement programme at the neutron time-of-flight facility n_TOF at CERN. EPJ Web of Conferences, 2017, 146, 11002.	0.3	2
79	Preparation and characterization of ^{235}U samples for $^{235}\text{U}(n, \hat{p})^{235}\text{Pa}$ cross section measurement at the n_TOF facility at CERN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 890, 142-147.	1.6	2
80	Thermal (n, \hat{p}) cross section and resonance integral of ^{171}Tm . Physical Review C, 2019, 99, .	2.9	2
81	Study of the photon strength functions and level density in the gamma decay of the $n + ^{234}\text{U}$ reaction. EPJ Web of Conferences, 2019, 211, 02002.	0.3	2
82	Neutron capture measurement at the n_TOF facility of the ^{204}Tl and ^{205}Tl s-process branching points. Journal of Physics: Conference Series, 2020, 1668, 012005.	0.4	2
83	Coulomb dissociation of ^{16}O into ^4He and ^{12}C . Journal of Physics: Conference Series, 2020, 1668, 012016.	0.4	2
84	Determination of luminosity for in-ring reactions: A new approach for the low-energy domain. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 982, 164367.	1.6	2
85	Probing the $Z=6$ spin-orbit shell gap with $(p, 2p)$ quasi-free scattering reactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, 135748.	4.1	2
86	A compact fission detector for fission-tagging neutron capture experiments with radioactive fissile isotopes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 969, 163981.	1.6	2
87	Neutron activation of ^{69}Ga and ^{71}Ga at $kT \approx 25\text{keV}$. Physical Review C, 2021, 103, .	2.9	2
88	Determination of the $^{209}\text{Bi}(n, \hat{p})^{209}\text{Pb}$ cross section using the NICE detector. Physical Review C, 2021, 103, .	2.9	2
89	Preliminary results on the ^{233}U \hat{p} -ratio measurement at n_TOF. EPJ Web of Conferences, 2020, 239, 01043.	0.3	2
90	Study of photon strength functions of ^{241}Pu and ^{245}Cm from neutron capture measurements. EPJ Web of Conferences, 2020, 239, 01015.	0.3	2

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91	Neutron capture cross section measurements of ^{241}Am at the n_TOF facility. EPJ Web of Conferences, 2020, 239, 01009.	0.3	2
92	Isotopic cross sections of fragmentation residues produced by light projectiles on carbon near 400 MeV. Physical Review C, 2022, 105, 014607.	2.9	2
93	Measurement of the $^{92,93,94,100}\text{Mo}(\hat{1}^3, n)$ reactions by Coulomb Dissociation. Journal of Physics: Conference Series, 2016, 665, 012034.	0.4	1
94	Experiments with radioactive target samples at FRANZ. Journal of Physics: Conference Series, 2016, 665, 012022.	0.4	1
95	Alpha-induced reactions on selenium between 11 and 15 MeV. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 075101.	3.6	1
96	Proton and $\hat{1}^\pm$ capture studies for nuclear astrophysics at GSI storage rings. Journal of Physics: Conference Series, 2017, 875, 092015.	0.4	1
97	Reactor neutrons in nuclear astrophysics. EPJ Web of Conferences, 2017, 146, 01003.	0.3	1
98	The Nuclear Astrophysics program at n_TOF (CERN). EPJ Web of Conferences, 2017, 165, 01014.	0.3	1
99	$^7\text{Be}(n, \hat{1}^\pm)$ and $^7\text{Be}(n, p)$ cross-section measurement for the cosmological lithium problem at the n_TOF facility at CERN. EPJ Web of Conferences, 2017, 146, 01012.	0.3	1
100	Characterization of the n_TOF EAR-2 neutron beam. EPJ Web of Conferences, 2017, 146, 03020.	0.3	1
101	New measurement of the $^{242}\text{Pu}(n, \hat{1}^3)$ cross section at n_TOF-EAR1 for MOX fuels: Preliminary results in the RRR. EPJ Web of Conferences, 2017, 146, 11045.	0.3	1
102	Neutron capture cross sections of ^{69}Ga and ^{71}Ga at 25 keV and $E_{\text{peak}} = 90$ keV. EPJ Web of Conferences, 2017, 146, 01014.	0.3	1
103	The n_TOF facility: Neutron beams for challenging future measurements at CERN. EPJ Web of Conferences, 2017, 146, 03001.	0.3	1
104	Measurement of the radiative capture cross section of the s-process branching points ^{204}Tl and ^{171}Tm at the n_TOF facility (CERN). EPJ Web of Conferences, 2018, 178, 03004.	0.3	1
105	Fission program at n_TOF. EPJ Web of Conferences, 2019, 211, 03006.	0.3	1
106	Measurement of the $^{209}\text{Bi}(n, \hat{1}^\pm)$ ratio and cross section of $^{209}\text{Bi}(n, p)$ and $^{209}\text{Bi}(n, \alpha)$ reactions. EPJ Web of Conferences, 2019, 211, 03007.	0.3	1
107	Measurement of the $^{209}\text{Bi}(n, \hat{1}^\pm)$ ratio and cross section of $^{209}\text{Bi}(n, p)$ and $^{209}\text{Bi}(n, \alpha)$ reactions. EPJ Web of Conferences, 2019, 211, 03007.	0.3	1
108	Measurement of the $^{209}\text{Bi}(n, \hat{1}^\pm)$ ratio and cross section of $^{209}\text{Bi}(n, p)$ and $^{209}\text{Bi}(n, \alpha)$ reactions. EPJ Web of Conferences, 2019, 211, 03007.	0.3	1

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109	$^{80}\text{Se}(n, \hat{p}^3)$ cross-section measurement at CERN n_TOF. Journal of Physics: Conference Series, 2020, 1668, 012001.	0.4	1
110	Review and new concepts for neutron-capture measurements of astrophysical interest. Journal of Physics: Conference Series, 2020, 1668, 012013.	0.4	1
111	Data for the s Process from n_TOF. Springer Proceedings in Physics, 2019, , 63-70.	0.2	1
112	Constraints on the dipole photon strength for the odd uranium isotopes. Physical Review C, 2022, 105, .	2.9	1
113	New experimental developments for s- and p-process research. Journal of Physics: Conference Series, 2012, 403, 012038.	0.4	0
114	Measurements of neutron-induced reactions in inverse kinematics and applications to nuclear astrophysics. EPJ Web of Conferences, 2015, 93, 02013.	0.3	0
115	Monte carlo simulations of the n_TOF lead spallation target with the Geant4 toolkit: A benchmark study. EPJ Web of Conferences, 2017, 146, 03030.	0.3	0
116	High precision measurement of the radiative capture cross section of ^{238}U at the n_TOF CERN facility. EPJ Web of Conferences, 2017, 146, 11028.	0.3	0
117	Time-of-flight and activation experiments on ^{147}Pm and ^{171}Tm for astrophysics. EPJ Web of Conferences, 2017, 146, 01007.	0.3	0
118	First Measurement of $^{72}\text{Ge}(n, \hat{p}^3)$ at n_TOF. EPJ Web of Conferences, 2018, 184, 02005.	0.3	0
119	Online tools for nucleosynthesis studies. Journal of Physics: Conference Series, 2018, 940, 012006.	0.4	0
120	Measurement and analysis of $^{155,157}\text{Gd}(n, \hat{p}^3)$ from thermal energy to 1 keV. EPJ Web of Conferences, 2020, 239, 01041.	0.3	0
121	Partial cross sections of $^{181}\text{Ta}(n, \hat{p}^3)$ using BEGe detectors. Journal of Physics: Conference Series, 2020, 1668, 012018.	0.4	0
122	New reaction rates for the destruction of ^7Be during big bang nucleosynthesis measured at CERN/n_TOF and their implications on the cosmological lithium problem. EPJ Web of Conferences, 2020, 239, 07001.	0.3	0
123	Neutron Capture Cross Section for ^{10}Be . Journal of Physics: Conference Series, 2020, 1668, 012048.	0.4	0
124	Measurement of the $^{235}\text{U}(n, f)$ cross section at n_TOF from thermal to 170 keV. International Journal of Modern Physics Conference Series, 2020, 50, 2060011.	0.7	0
125	A Free-Neutron Target for Nuclear Reaction Studies. , 2017, , .		0
126	Measurement of the ^{244}Cm and ^{246}Cm Neutron-Induced Cross Sections at the n_TOF Facility. Springer Proceedings in Physics, 2019, , 117-122.	0.2	0

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127	Investigation of Neutron-Induced Reaction at the Goethe University Frankfurt. Springer Proceedings in Physics, 2019, , 253-257.	0.2	0
128	${}^7\text{Be}(n,p){}^7\text{Li}$ Cross Section Measurement for the Cosmological Lithium Problem at the n_TOF Facility at CERN. Springer Proceedings in Physics, 2019, , 25-32.	0.2	0
129	First results of the ${}^{230}\text{Th}(n,f)$ cross section measurements at the CERN n_TOF facility. EPJ Web of Conferences, 2020, 239, 05004.	0.3	0
130	Accurate measurement of the standard ${}^{235}\text{U}(n,f)$ cross section from thermal to 170 keV neutron energy. EPJ Web of Conferences, 2020, 239, 08002.	0.3	0
131	Measurement of the ${}^{242}\text{Pu}(n, \hat{\gamma}^3)$ cross section from thermal to 500 keV at the Budapest research reactor and CERN n_TOF-EAR1 facilities. EPJ Web of Conferences, 2020, 239, 01019.	0.3	0
132	Study of the neutron-induced fission cross section of ${}^{237}\text{Np}$ at CERN's n_TOF facility over a wide energy range. EPJ Web of Conferences, 2020, 239, 05006.	0.3	0
133	The ${}^{154}\text{Gd}$ neutron capture cross section measured at the n_TOF facility and its astrophysical implications. EPJ Web of Conferences, 2020, 239, 07003.	0.3	0
134	Measurement of the energy-differential cross-section of the ${}^{12}\text{C}(n,p){}^{12}\text{B}$ and ${}^{12}\text{C}(n,d){}^{11}\text{B}$ reactions at the n_TOF facility at CERN. EPJ Web of Conferences, 2020, 239, 01045.	0.3	0
135	First results of the ${}^{241}\text{Am}(n,f)$ cross section measurement at the Experimental Area 2 of the n_TOF facility at CERN. EPJ Web of Conferences, 2020, 239, 05014.	0.3	0
136	Investigation of the ${}^7\text{Li}(p,n)$ neutron fields at high energies. Journal of Physics: Conference Series, 2020, 1668, 012003.	0.4	0
137	Activation measurements of neutron capture cross sections at various temperatures. EPJ Web of Conferences, 2022, 260, 11012.	0.3	0
138	First ${}^{80}\text{Se}(n, \hat{\gamma}^3)$ cross section measurement with high resolution in the full stellar energy range 1 eV - 100 keV and its astrophysical implications for the <i>s</i> -process. EPJ Web of Conferences, 2022, 260, 11026.	0.3	0