

Roland Kotte

List of Publications by Year in descending order

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138
papers

4,942
citations

76326

40
h-index

102487

66
g-index

140
all docs

140
docs citations

140
times ranked

2857
citing authors

#	ARTICLE	IF	CITATIONS
1	The high-acceptance dielectron spectrometer HADES. European Physical Journal A, 2009, 41, 243-277.	2.5	271
2	Systematics of pion emission in heavy ion collisions in the regime. Nuclear Physics A, 2007, 781, 459-508.	1.5	188
3	Central collisions of Au on Au at 150, 250 and 400 A [∧] MeV. Nuclear Physics A, 1997, 612, 493-556.	1.5	154
4	Systematics of central heavy ion collisions in the regime. Nuclear Physics A, 2010, 848, 366-427.	1.5	139
5	Excitation function of elliptic flow in Au+Au collisions and the nuclear matter equation of state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 612, 173-180.	4.1	136
6	A highly-segmented \hat{I}^{E} -time-of-flight wall as forward detector of the 4 \hat{I} -system for charged particles at the SIS/ESR accelerator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 324, 156-176.	1.6	126
7	Isospin Tracing: A Probe of Nonequilibrium in Central Heavy-Ion Collisions. Physical Review Letters, 2000, 84, 1120-1123.	7.8	126
8	Collective motion in selected central collisions of Au on Au at 150 A MeV. Physical Review Letters, 1994, 72, 3468-3471.	7.8	122
9	On the transverse momentum distribution of strange hadrons produced in relativistic heavy ion collisions. Zeitschrift f \hat{A} r Physik A, 1995, 352, 355-357.	0.9	120
10	Systematics of azimuthal asymmetries in heavy ion collisions in the regime. Nuclear Physics A, 2012, 876, 1-60.	1.5	117
11	Dielectron Production in C12+C12 Collisions at 2 A \hat{A} GeV with the HADES Spectrometer. Physical Review Letters, 2007, 98, 052302.	7.8	115
12	Searching a dark photon with HADES. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 731, 265-271.	4.1	113
13	Sideward flow of K ⁺ mesons in Ru+Ru and Ni+Ni reactions near threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 486, 6-12.	4.1	88
14	Nuclear Stopping from 0.09 A to 1.93 A \hat{A} GeV and Its Correlation to Flow. Physical Review Letters, 2004, 92, 232301.	7.8	85
15	Origin of the low-mass electron pair excess in light nucleus \hat{A} nucleus collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 690, 118-122.	4.1	85
16	Study of dielectron production in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle C \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mi mathvariant="normal"} \rangle C \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ collisions at $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mspace width="0.2em"} \rangle$	4.1	83
17	Dielectron production in Au+KCl collisions at 1.76 $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle A \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ GeV. Physical Review C, 2011, 84, .	2.9	78
18	Charged pion production in Au on Au collisions at 1 A GeV The FOPI Collaboration. Zeitschrift f \hat{A} r Physik A, 1997, 357, 215-234.	0.9	77

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19	Production of Λ resonances in $Ar + KCl$ collisions at 1.76A GeV. Nuclear Physics A, 2001, 679, 765-792.	7.8	74
20	Λ decay: A relevant source for K^0 at energies available at the GSI Schwerionen-Synchrotron (SIS)? Physical Review C, 2009, 80, .	2.9	70
21	Transition from in-plane to out-of-plane azimuthal enhancement in Au+Au collisions. Nuclear Physics A, 2001, 679, 765-792.	1.5	71
22	Azimuthal asymmetry of neutral pion emission in Au+Au reactions at 1 GeV/nucleon. Physical Review Letters, 1993, 71, 835-838.	7.8	70
23	Hyperon production in Ar + KCl collisions at 1.76A GeV. European Physical Journal A, 2011, 47, 1.	2.5	70
24	Baryonic resonances close to the K^0 threshold. The case of N . Physical Review C, 2013, 87, .	2.9	70
25	Partial wave analysis of the reaction $p(3.5\text{A GeV}) + p \rightarrow pK^0 + \Lambda$ to search for the Λ -bound state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 242-248.	4.1	69
26	Midrapidity source of intermediate-mass fragments in highly central collisions of Au + Au at 150A MeV. Physical Review Letters, 1992, 69, 889-892.	7.8	68
27	K^+ production in the reaction $58Ni + 58Ni$ at incident energies from 1 to 2 A GeV. Nuclear Physics A, 1997, 625, 307-324.	1.5	67
28	Stopping and radial flow in central $58Ni + 58Ni$ collisions between 1A and 2A GeV. Physical Review C, 1998, 57, 244-253.	2.9	67
29	Directed flow in Au+Au, Xe+Csl, and Ni+Ni collisions and the nuclear equation of state. Physical Review C, 2003, 67, .	2.9	63
30	Inclusive dielectron spectra in p+p collisions at 3.5 GeV kinetic beam energy. European Physical Journal A, 2012, 48, 1.	2.5	58
31	Proton and deuteron rapidity distributions and nuclear stopping in $96Ru(96Zr) + 96Ru(96Zr)$ collisions at 400A MeV. Physical Review C, 2002, 66, .	2.9	57
32	Direct comparison of phase-space distributions of K^- and K^+ mesons in heavy-ion collisions at SIS energies – evidence for in-medium modifications of kaons?. European Physical Journal A, 2000, 9, 515-519.	2.5	54
33	Energy dependence of collective flow of neutrons and protons in $197Au + 197Au$ collisions. Zeitschrift für Physik A, 1994, 350, 115-120.	0.9	52
34	Abundance of Λ resonances in $58Ni + 58Ni$ collisions between 1 and 2 A GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 407, 115-120.	4.1	51
35	The CBM time-of-flight wall. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 661, S121-S124.	1.6	51
36	Velocity correlations of intermediate mass fragments produced in central collisions of Au+Au at $E = 150A$ MeV. Physical Review C, 1993, 48, R955-R959.	2.9	42

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37	Identification of baryon resonances in central heavy-ion collisions at energies between 1 and 2 AGeV. European Physical Journal A, 1998, 3, 335-349.	2.5	42
38	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
39	Evidence for collective expansion in light-particle emission following Au+Au collisions at 100, 150 and 250 A·MeV. Nuclear Physics A, 1995, 586, 755-776.	1.5	41
40	Charged pions from Ni on Ni collisions between 1 and 2 AGeV. Zeitschrift für Physik A, 1997, 359, 55-64.	0.9	41
41	Azimuthal Dependence of Collective Expansion for Symmetric Heavy-Ion Collisions. Physical Review Letters, 2004, 92, 072303.	7.8	40
42	Onset of nuclear matter expansion in Au+Au collisions. Nuclear Physics A, 1997, 624, 755-772.	1.5	38
43	Measurement of the In-Medium Inclusive Cross Section in Proton-Induced Reactions at Intermediate Energies. Physical Review Letters, 2004, 92, 072303.	7.8	38
44	Baryonic resonances close to the $\Lambda(1385)$ threshold: The case of $\sqrt{s_{NN}} = 1.15$ GeV collisions. Physical Review C, 2012, 85, .	2.9	37
45	Statistical hadronization model analysis of hadron yields in p + Nb and Ar + KCl at SIS18 energies. European Physical Journal A, 2016, 52, 1.	2.5	37
46	In-medium effects on the K^0 production in relativistic heavy-ion collisions. Physical Review C, 2010, 82, .	2.9	36
47	Final state: Towards the extraction of the K^0 production in relativistic heavy-ion collisions. Nuclear Physics A, 2013, 914, 60-68.	1.5	36
48	Differential directed flow in Au+Au collisions. Physical Review C, 2001, 64, .	2.9	35
49	Development of high-rate MRPCs for high resolution time-of-flight systems. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 713, 40-51.	1.6	34
50	Entropy production in the Au+Au reaction between 150A and 800A MeV. Physical Review C, 1993, 48, 1232-1245.	2.9	33
51	Subthreshold production of $\Lambda(1385)$ baryons in Al+Al collisions at 1.9 AGeV. Physical Review C, 2007, 76, .	2.9	33
52	Sideward flow in Au + Au collisions at 400 A.MeV. Nuclear Physics A, 1995, 587, 802-814.	1.5	32
53	Cluster Formation during Expansion of Hot and Compressed Nuclear Matter Produced in Central Collisions of Au on Au at 250A MeV. Physical Review Letters, 1995, 74, 5001-5004.	7.8	32
54	K^0 production in Ni+Ni collisions near threshold. Physical Review C, 2007, 76, .	2.9	32

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55	Lambda hyperon production and polarization in collisions of p(3.5 GeV)+Nb. European Physical Journal A, 2014, 50, 1.	2.5	31
56	Out-of-plane emission of nuclear matter in Au+Au collisions between 100 and 800 A MeV. Nuclear Physics A, 1997, 622, 573-592.	1.5	30
57	On the space-time difference of proton and composite particle emission in central heavy-ion reactions at 400 A MeV. European Physical Journal A, 1999, 6, 185-195.	2.5	30
58	Baryon resonance production and dielectron decays in proton-proton collisions at 3.5 GeV. European Physical Journal A, 2014, 50, 1.	2.5	29
59	Measurement of charged pions in 12C + 12C collisions at 1 A GeV and 2 A GeV with HADES. European Physical Journal A, 2009, 40, 45-59.	2.5	28
60	Subthreshold $\int_{\tilde{z}}^{\tilde{z}^{\wedge}} \dots$ in Collisions of $p \dots$		

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73	Flow angle from intermediate mass fragment measurements. Nuclear Physics A, 1999, 646, 367-384.	1.5	21
74	Ceramics high rate timing RPC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 628, 138-141.	1.6	21
75	The CBM Time-of-Flight wall – a conceptual design. Journal of Instrumentation, 2014, 9, C10014-C10014.	1.2	21
76	Interplay of collective flow phenomena and velocity correlations of intermediate-mass fragments in collisions of Au+Au at $E=(100\text{--}400)\text{A MeV}$. Physical Review C, 1995, 51, 2686-2699.	2.9	20
77	First analysis of anisotropic flow with Lee–Yang zeros. Physical Review C, 2005, 72, .	2.9	20
78	Droplet formation in expanding nuclear matter: a system-size dependent study. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 595, 118-126.	4.1	19
79	Properties of buried insulating layers in silicon formed by high dose implantation at 60 keV. Nuclear Instruments & Methods in Physics Research B, 1988, 32, 440-445.	1.4	17
80	Performance of RPC with low-resistive silicate glass electrodes exposed to an intense continuous electron beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 576, 331-336.	1.6	16
81	Associate K^0 production in $p+p$ collisions at 3.5 GeV: The role of $\bar{K}^*(1232)^{++}$. Physical Review C, 2014, 90, .	2.9	16
82	Influence of mesons on negative kaons in Ni + Ni collisions at beam energy. Physical Review C, 2015, 91, .	2.9	16
83	Bragg peak spectroscopy of low-energy heavy ions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1987, 257, 244-252.	1.6	15
84	Azimuthal anisotropies as stringent test for nuclear transport models. Nuclear Physics A, 1997, 627, 522-542.	1.5	15
85	Production of Λ in reactions at 3.5 GeV beam energy. Nuclear Physics A, 2012, 881, 178-186.	1.5	14
86	Inclusive pion and Λ production in $p+Pb$ collisions at 3.5 GeV beam energy. Physical Review C, 2013, 88, .	2.9	14
87	Deep sub-threshold $K^*(892)^0$ production in collisions of Ar + KCl at 1.76 A GeV. European Physical Journal A, 2013, 49, 1.	2.5	13
88	Study of e^+, e^+ production in elementary and nuclear collisions near the production threshold with HADES. Progress in Particle and Nuclear Physics, 2004, 53, 49-58.	14.4	12
89	High-rate timing RPC with ceramics electrodes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 635, S113-S116.	1.6	12
90	Strange meson production in Al+Al collisions at 1.9 A GeV. European Physical Journal A, 2016, 52, 1.	2.5	12

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91	Shape of collective flow in highly central Au(150 A MeV)+Au collisions. Zeitschrift für Physik A, 1997, 358, 73-80.	0.9	11
92	High-rate timing resistive plate chambers with ceramic electrodes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 818, 45-50.	1.6	11
93	Testing timing RPC detectors at the Rossendorf electron linac ELBE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 818, 45-50.	1.6	10
94	Measurement of femtoscale fluctuations in collisions of $^{40}\text{Ar}+^{40}\text{Ar}$ at $\sqrt{s_{NN}}=1.76\text{A GeV}$. Physical Review Letters, 2016, 116, 022301.	2.9	10
95	pp and $^{40}\text{Ar}+^{40}\text{Ar}$ intensity interferometry in collisions of Ar+KCl at 1.76A GeV. European Physical Journal A, 2011, 47, 1.	2.5	9
96	Proton-proton correlations in central collisions of Ni+Ni at 1.93 A GeV and the space-time extent of the emission source. Zeitschrift für Physik A, 1997, 359, 47-54.	0.9	8
97	The HADES-at-FAIR project. Physics of Atomic Nuclei, 2012, 75, 589-593.	0.4	7
98	Centrality dependence of subthreshold meson production in Ni + Ni collisions at $\sqrt{s_{NN}}=1.9\text{A GeV}$. Physical Review C, 2016, 94, .	2.9	7
99	Influence of the cure parameters on the partial discharge behavior of cast resins. , 0, , .		6
100	Dilepton production in pp and CC collisions with HADES. European Physical Journal A, 2007, 31, 831-835.	2.5	6
101	Measurement of K^0_S production in $^{40}\text{Ar}+^{40}\text{Ar}$ collisions at $\sqrt{s_{NN}}=1.76\text{A GeV}$. Physical Review C, 2016, 94, .	2.9	6
102	Time of flight measurement in heavy-ion collisions with the HADES RPC TOF wall. Journal of Instrumentation, 2014, 9, C11015-C11015.	1.2	6
103	Entropy in central Au+Au reactions between 100 and 400A MeV. Physical Review C, 1995, 52, 346-355.	2.9	5
104	Shape parameters of the participant source in $^{64}\text{Zn}+^{64}\text{Zn}$ collisions at $\sqrt{s_{NN}}=2.76\text{A GeV}$. Nuclear Physics A, 2004, 742, 29-54.	1.5	5
105	Hades experiments: investigation of hadron in-medium properties. Journal of Physics: Conference Series, 2013, 420, 012013.	0.4	5
106	Measurement of K^0_S production in proton-proton collisions at $\sqrt{s_{NN}}=2.76\text{A GeV}$. Physical Review C, 2015, 92, .	2.9	5
107	Extreme high-rate capable timing resistive plate chambers with ceramic electrodes. Journal of Instrumentation, 2012, 7, P10012-P10012.	1.2	4
108	Strange hadron production at SIS energies: an update from HADES. Journal of Physics: Conference Series, 2016, 668, 012022.	0.4	4

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109	Radiation-hard ceramic Resistive Plate Chambers for forward TOF and TO systems. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 203-205.	1.6	4
110	Di-electron measurements in C+C reactions at with HADES. Nuclear Physics A, 2005, 752, 433-438.	1.5	3
111	Inclusive $e+e^{\gamma}$ pair production in p+p and p+Nb collisions at $E_{kin} = 3.5$ GeV. Journal of Physics: Conference Series, 2011, 316, 012007.	0.4	3
112	DILEPTON PRODUCTION STUDIED WITH THE HADES SPECTROMETER. International Journal of Modern Physics A, 2011, 26, 384-389.	1.5	3
113	HADES tracking system: first in-beam experience. IEEE Transactions on Nuclear Science, 2004, 51, 939-942.	2.0	2
114	DIELECTRON PRODUCTION IN C + C AND p + p COLLISIONS WITH HADES. International Journal of Modern Physics A, 2007, 22, 388-396.	1.5	2
115	Measurement of low-mass $e + e^{\gamma}$ pair production in 1 and 2 μm $\text{A}^{\text{A}}\text{GeV}$ C^{C} collision with HADES. European Physical Journal C, 2009, 62, 81-84.	3.9	2
116	Precision measurement of timing RPC gas mixtures with laser-beam induced electrons. Journal of Instrumentation, 2014, 9, C10009-C10009.	1.2	2
117	Performance study of a Mosaic high rate MRPC. Journal of Instrumentation, 2016, 11, C09016-C09016.	1.2	2
118	Particle identification at HADES. Nuclear Physics A, 2004, 734, 78-81.	1.5	1
119	Dielectron production in $^{12}\text{C} + ^{12}\text{C}$ collisions at $2 < i < /i > \text{A} < /i > \text{GeV}$ with HADES. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, S1041-S1045.	3.6	1
120	Dilepton Production at SIS Energies Studied with HADES. Nuclear Physics A, 2010, 834, 298c-302c.	1.5	1
121	The dp-elastic cross section measurement at the deuteron kinetic energy of 2.5 GeV. EPJ Web of Conferences, 2012, 37, 09021.	0.3	1
122	An upper limit on hypertriton production in collisions of $\text{Ar}(1.76 \text{ A GeV}) + \text{KCl}$. European Physical Journal A, 2013, 49, 1.	2.5	1
123	Measurement of the quasi free $n + p \rightarrow n + p + \pi^0$ reactions at 1.25 GeV With HADES. EPJ Web of Conferences, 2014, 81, 02009.	0.3	1
124	In-medium hadron properties measured with HADES. EPJ Web of Conferences, 2014, 66, 04023.	0.3	1
125	Investigating hadronic resonances in pp interactions with HADES. EPJ Web of Conferences, 2015, 97, 00024.	0.3	1
126	Charged particle induced ternary fission. Zeitschrift für Physik A, Atomic Nuclei, 1987, 328, 495-496.	0.3	0

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127	In-beam investigation of ternary fission. Zeitschrift für Physik A, Atomic Nuclei, 1988, 330, 189-195.	0.3	0
128	Fission modes in charged-particle induced fission. Zeitschrift für Physik A, Atomic Nuclei, 1990, 337, 439-446.	0.3	0
129	The HADES tracking system: first in-beam experiences with operation and aging. , 0, , .		0
130	DILEPTON ANALYSIS IN THE HADES SPECTROMETER FOR 12C+12C AT 2 AGEV. International Journal of Modern Physics A, 2005, 20, 602-605.	1.5	0
131	Dielectron spectroscopy at 1-2 AGeV with HADES. European Physical Journal A, 2008, 38, 163-166.	2.5	0
132	Studying Hadron Properties in Baryonic Matter with HADES. , 2010, , .		0
133	Title is missing!. Acta Physica Polonica B, 2012, 43, 601.	0.8	0
134	Strange baryon resonances in pp collisions measured with HADES. Hyperfine Interactions, 2012, 213, 63-70.	0.5	0
135	HADES results in elementary reactions. EPJ Web of Conferences, 2014, 81, 01003.	0.3	0
136	Silvio: A trigger for Λ -hyperons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 745, 38-49.	1.6	0
137	Low mass dielectrons radiated off cold nuclear matter measured with HADES. EPJ Web of Conferences, 2014, 66, 09011.	0.3	0
138	Highlights of Resonance Measurements With HADES. EPJ Web of Conferences, 2015, 97, 00015.	0.3	0