

Eberhard Klempt

List of Publications by Year in descending order

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133
papers

17,463
citations

44042

48
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12585

132
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134
all docs

134
docs citations

134
times ranked

13438
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of Particle Physics. Physical Review D, 2018, 98, .	1.6	5,390
2	Review of Particle Physics. Physical Review D, 2012, 86, .	1.6	5,054
3	Glueballs, hybrids, multiquarks. Physics Reports, 2007, 454, 1-202.	10.3	630
4	Baryon spectroscopy. Reviews of Modern Physics, 2010, 82, 1095-1153.	16.4	308
5	The crystal barrel spectrometer at LEAR. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 321, 69-108.	0.7	291
6	Evidence for the positive-strangeness pentaquark $\hat{\Lambda}^+$ in photoproduction with the SAPHIR detector at ELSA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 572, 127-132.	1.5	280
7	Properties of baryon resonances from a multichannel partial wave analysis. European Physical Journal A, 2012, 48, 1.	1.0	271
8	Measurement of $\gamma p \rightarrow K^+ \Lambda$ and $\gamma p \rightarrow K^+ \Sigma^0$ at photon energies up to 2.6 GeV. European Physical Journal A, 2004, 19, 251-273.	1.0	219
9	Measurement of $\hat{\Lambda}^+ K^+$ and $\hat{\Lambda}^+ K^0$ at photon energies up to 2 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 445, 20-26.	1.5	167
10	Partial wave analysis in K-matrix formalism. Annalen Der Physik, 1995, 507, 404-430.	0.9	136
11	Photoproduction of Λ -Mesons off Protons for $0.75 \leq E_\gamma < 3 \text{ GeV}$. Physical Review Letters, 2005, 94, 012004.	1.5	125
12	Observation of two $J^{PC}=0^{++}$ isoscalar resonances at 1365 and 1520 MeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 323, 233-241.	1.5	125
13	Coupled channel analysis of p annihilation into $\bar{K}^0 \bar{K}^0$, $\bar{K}^0 \bar{\Lambda}$ and $\bar{K}^0 \bar{K}^+$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 355, 425-432.	1.5	123
14	High-statistics study of $f_0(1500)$ decay into $\bar{K}^0 \bar{K}^0$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 342, 433-439.	1.5	117
15	Observation of a new $I^G(J^{PC})=1^+(0^{++})$ resonance at 1450 MeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 333, 277-282.	1.5	113
16	Decays of baryon resonances into $\hat{\Lambda}^+ K^+$, $\hat{\Sigma}^+ K^+$ and $\hat{\Sigma}^+ K^0$. European Physical Journal A, 2005, 25, 441-453.	1.0	112
17	Photoproduction of Λ and Σ^+ off protons. Physical Review C, 2009, 80, .	1.1	111
18	Partial-wave decomposition of pion and photoproduction amplitudes. European Physical Journal A, 2005, 24, 111-128.	1.0	100

#	ARTICLE	IF	CITATIONS
19	Photoproduction of baryons decaying into N^* and N^* . European Physical Journal A, 2005, 25, 427-439.	1.0	96
20	Quasifree Photoproduction of ρ -Mesons off the Neutron. Physical Review Letters, 2008, 100, 252002.	2.9	96
21	New results on the Roper resonance and the ρ partial wave. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 94-100.	1.5	92
22	Measurement of the beam asymmetry in ρ photoproduction off the proton. European Physical Journal A, 2007, 33, 147-155.	1.0	89
23	High statistics study of the reaction $\hat{\rho}^0 p \rightarrow \rho^0 \hat{p}$. European Physical Journal A, 2014, 50, 1.	1.0	87
24	Evidence for a ρ -P-wave in $\pi^+ \pi^-$ annihilations at rest into $\rho^0 \pi^0$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 446, 349-355.	1.5	86
25	Measurement of the reaction $\hat{\rho}^0 p \rightarrow \rho^0 \hat{p}$ at photon energies up to 2.6 GeV. European Physical Journal A, 2005, 24, 275-285.	1.0	86
26	The antinucleon-nucleon interaction at low energy: Annihilation dynamics. Physics Reports, 2005, 413, 197-317.	10.3	81
27	Low-energy photoproduction of ω -mesons. European Physical Journal A, 2003, 18, 117-127.	1.0	76
28	Neutral-Pion Photoproduction off Protons in the Energy Range 0.3-3 GeV. Physical Review Letters, 2005, 94, 012003.	2.9	76
29	ρ^0 annihilation at rest into $K^+ K^-$. Physical Review D, 1998, 57, 3860-3872.	1.6	69
30	Quasi-free photoproduction of ρ -mesons off the deuteron. European Physical Journal A, 2011, 47, 1.	1.0	68
31	and ρ^0 decays into $\rho^0 \pi^0$.	1.5	67
32	Scalar mesons in a relativistic quark model with instanton-induced forces. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 361, 160-166.	1.5	65
33	High-statistics study of the reaction $\hat{\rho}^0 p \rightarrow \rho^0 \hat{p}$. European Physical Journal A, 2015, 51, 1.	1.0	63
34	Photoproduction of ρ^0 -mesons with the π^0 -detector SAPHIR. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 444, 555-562.	1.5	62
35	Well-Established Nucleon Resonances Revisited by Double-Polarization Measurements. Physical Review Letters, 2012, 109, 102001.	2.9	62
36	Study of the reaction $\hat{\rho}^0 p \rightarrow \rho^0 \hat{p}$. European Physical Journal A, 2008, 38, 173-186.	1.0	61

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37	Antiproton-proton annihilation at rest into two-body final states. Zeitschrift für Physik C-Particles and Fields, 1993, 58, 175-189.	1.5	60
38	Linearly polarised photon beams at ELSA and measurement of the beam asymmetry in π^0 photoproduction off the proton. European Physical Journal A, 2009, 39, 373-381.	1.0	56
39	Diquark correlations in baryon spectroscopy and holographic QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 679, 77-80.	1.5	55
40	Baryon resonances and polarization transfer in hyperon photoproduction. European Physical Journal A, 2007, 34, 243-254.	1.0	53
41	$\Lambda(1520)$ threshold enhancement in \bar{p}, p annihilations into $\bar{\Lambda}(1520)$ at rest. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 340, 259-263.	1.5	52
42	Photoproduction of η -mesons off protons from the $\rho(1232)$ region to $E_{\gamma} = 3$ GeV. European Physical Journal A, 2007, 31, 61-77.	1.0	52
43	Determination of the optical potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 727, 417-423.	1.5	50
44	First Measurement of the Helicity Asymmetry for the Resonance Region. Physical Review Letters, 2014, 112, 012003.	2.9	50
45	Nucleon resonance decay by the K_0^{*} channel. European Physical Journal A, 2008, 35, 39-45.	1.0	49
46	High statistics study of $\Lambda(1500)$ s decay into Λ^0 . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 353, 571-577.	1.5	48
47	Photoproduction of Λ^0 -mesons off protons. European Physical Journal A, 2007, 33, 133-146.	1.0	48
48	Photoproduction of pions and properties of baryon resonances from a Bonn-Gatchina partial-wave analysis. European Physical Journal A, 2010, 44, 203-220.	1.0	48
49	Further evidence for a Parity Doublet from photoproduction of hyperons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 662, 245-251.	1.5	47
50	Photoproduction of η -mesons off neutrons from a deuteron target. European Physical Journal A, 2009, 41, 13-24.	1.0	47
51	Observation of $f_0(1500)$ decay into $KLKL$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 385, 425-432.	1.5	46
52	Observation of a scalar resonance decaying to $\eta\eta'$ in annihilation at rest. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 322, 431-440.	1.5	45
53	The impact of new polarization data from Bonn, Mainz and Jefferson Laboratory on $\gamma p \rightarrow \pi^0 n$ multipoles. European Physical Journal A, 2016, 52, 1.	1.0	45
54	Evidence for a Parity Doublet. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 353, 277-281.	2.9	44

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55	K^0 and K^*0 photoproduction off the proton. European Physical Journal A, 2008, 35, 333-342.	1.0	43
56	Anomaly in the photoproduction cross section off the proton at the K^0 production threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 180-185.	1.5	43
57	P-wave excited baryons from pion- and photo-induced hyperon production. European Physical Journal A, 2011, 47, 1.	1.0	42
58	Photoproduction of η -mesons and η' -baryons in the reaction $\hat{p} + \hat{p} \rightarrow \hat{p} + \hat{p} + \eta$ at energies up to $\sqrt{s} = 2.6$ GeV. European Physical Journal A, 2005, 23, 317-344.	1.0	41
59	Mass formula for baryon resonances. Physical Review C, 2002, 66, .	1.1	39
60	Photoproduction of meson pairs: First measurement of the polarization observable E . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 687, 11-15.	1.5	38
61	Pion- and photo-induced transition amplitudes to \hat{K} , \hat{K}^* and \hat{N}^* . European Physical Journal A, 2012, 48, 1.	1.0	38
62	Photoproduction of η' -mesons off the deuteron. European Physical Journal A, 2011, 47, 1.	1.0	37
63	Measurement of the beam asymmetry \hat{A}_x in η production off the proton with the CBELSA/TAPS experiment. European Physical Journal A, 2008, 35, 291-293.	1.0	36
64	Scalar isoscalar mesons and the scalar glueball from radiative J/ψ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136227.	1.5	36
65	Nucleon resonances in the fourth-resonance region. European Physical Journal A, 2011, 47, 1.	1.0	34
66	Helicity amplitudes for photoexcitation of nucleon resonances off neutrons. European Physical Journal A, 2013, 49, 1.	1.0	34
67	Photon beam asymmetry \hat{A}_x for \hat{K}^* and \hat{K}^{*2} photoproduction from the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 213-221.	1.5	32
68	Baryon-baryon and baryon-antibaryon interaction amplitudes in the spin-momentum operator expansion method. European Physical Journal A, 2007, 34, 129-152.	1.0	30
69	Measurement of the beam asymmetry \hat{A}_x in the forward direction for \hat{K}^* photoproduction. Physical Review C, 2010, 81, .	1.1	30
70	Photoproduction of \hat{K}^* -mesons off nuclei for $\sqrt{s} \approx 2.2$ GeV. European Physical Journal A, 2008, 38, 195-207.	1.0	29
71	First measurement of the polarization observable E in the \hat{K}^* photoproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 180-185.	1.5	29

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73	Strong Evidence for Nucleon Resonances near 1900 MeV. Physical Review Letters, 2017, 119, 062004.	2.9	29
74	High-mass Λ_{\pm} -meson states from $p\bar{p}$ -annihilation at rest into $\Lambda^{\pm}\pi^0$ spectator. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 391, 191-196.	1.5	27
75	The polarization observables T , P , and H and their impact on $\Lambda^{\pm}\pi^0$ production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 740, 212-220.	1.5	27
76	The suppression of $ss\bar{s}$ pair creation from tensor meson decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 352, 467-471.	1.5	26
77	Helicity Asymmetry for $\Lambda^{\pm}\pi^0$ in the N^* Resonance Region. Physical Review Letters, 2017, 118, 242002.	2.9	26
79	Beam asymmetries in near-threshold $\Lambda^{\pm}\pi^0$ photoproduction off the proton. Physical Review D, 2008, 78, .	1.6	25
80	Three-Body Nature of $\Lambda^{\pm}\pi^0$ Resonances from Sequential Decay Chains. Physical Review Letters, 2015, 114, 091803.	2.9	25
81	Photoproduction of neutral pions off protons. Physical Review C, 2011, 84, .	1.1	23
82	Photoproduction of $\Lambda^{\pm}\pi^0$ mesons off the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 407-413.	1.5	22
83	$\Lambda^{\pm}\pi^0$ decays to $\Lambda^{\pm}\pi^0$ from new data on $\Lambda^{\pm}\pi^0 p$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 97-101.	1.5	22
84	Hyperon II: Properties of excited hyperons. European Physical Journal A, 2019, 55, 1.	1.0	22
85	Multiplet classification of light-quark baryons. European Physical Journal A, 2012, 48, 1.	1.0	21
86	Neutron helicity amplitudes. Physical Review C, 2017, 96, .	1.1	20
87	Proton- $\Lambda^{\pm}\pi^0$ interactions at threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 626-630.	1.5	20
88	Hyperon III: $K^* - \pi$ coupled-channel dynamics in the $\Lambda(1405)$ mass region. European Physical Journal A, 2020, 56, 1.	1.0	20
89	Antiproton-proton annihilation at rest into $K^+\bar{K}^0$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 468, 178-188.	1.5	19
90	Energy-independent PWA of the reaction $\Lambda^{\pm}\pi^0 \rightarrow K^+\Lambda^{\pm}$. European Physical Journal A, 2014, 50, 1.	1.0	18

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91	Annihilation at rest of antiprotons and protons into neutral particles. Nuclear Physics A, 2003, 720, 357-367.	0.6	17
92	Sign ambiguity in the $K\bar{K}^*$ channel. European Physical Journal A, 2013, 49, 1.	1.0	17
93	Evidence for a spin-quartet of nucleon resonances at 2 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 711, 167-172.	1.5	16
94	New data on $\Lambda(1520)$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 711, 162-166.	1.5	16
95	Evidence for a negative-parity spin-doublet of nucleon resonances at 1.88 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 711, 162-166.	1.5	15
96	Data on $\Lambda(1520)$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 746, 127-131.	1.5	15
97	Observation of the $\Lambda(1520)$ cusp in the New Precise Beam Asymmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 247-252.	2.9	15
98	Observation of the $\Lambda(1520)$ cusp in the New Precise Beam Asymmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 247-252.	1.5	14
99	Differential cross sections and polarization observables from CLAS $\bar{p}p$ photoproduction and the search for new N^* states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 142-150.	1.5	14
100	Scalar mesons and the fragmented glueball. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136512.	1.5	14
101	Singlet-octet-glueball mixing of scalar mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 826, 136906.	1.5	14
102	Study of ambiguities in $\bar{K}^*p \rightarrow K^0$ scattering amplitudes. European Physical Journal A, 2013, 49, 1.	1.0	13
103	Evidence for $\Lambda(2200)7/2\Lambda^*$ from photoproduction and consequence for chiral-symmetry restoration at high mass. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 766, 357-361.	1.5	13
104	Double-polarization observable G in neutral-pion photoproduction off the proton. European Physical Journal A, 2017, 53, 1.	1.0	13
105	Measurement of the helicity asymmetry E_C in $\bar{p}p$ photoproduction. Physical Review C, 2017, 96, ..	1.1	13
106	N^* resonances from $K \Lambda$ amplitudes in sliced bins in energy. European Physical Journal A, 2017, 53, 1.	1.0	13
107	Hyperon I: Partial-wave amplitudes for K-p scattering. European Physical Journal A, 2019, 55, 1.	1.0	13
108	The Λ -mass, width and line shape in annihilation at rest into \bar{K}^*K^0 . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 469, 270-275.	1.5	12

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109	-annihilation at rest into $\pi^+\pi^-\pi^0$ spectator. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 450, 275-280.	1.5	12
110	Do parity doublets in the baryon spectrum reflect restoration of chiral symmetry?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 559, 144-152.	1.5	12
111	Phase motion of baryon resonances. European Physical Journal A, 2006, 29, 307-313.	1.0	12
112	Study of the narrow structure at 1685 MeV in $\pi^+\pi^-\pi^0$ production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 89-94.	1.5	11
113	Measurement of double polarisation asymmetries in π^0 -photoproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 453-458.	1.5	11
114	Photon beam asymmetry Σ in the reaction $\gamma p \rightarrow \pi^0 p$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 112-112.	1.5	11
115	Photoproduction of π^0 off protons for $E \approx 3$ GeV. European Physical Journal A, 2007, 31, 365-372.	1.0	10
116	Measurement of polarisation observables in $K_S^0 \pi^+$ photoproduction off the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 268-273.	1.5	10
117	Scrutinizing the evidence for $\Lambda(1685)$. Physical Review C, 2017, 95, .	1.0	10
118	Partial wave analysis. EPJ Web of Conferences, 2017, 134, 02002.	0.1	10
119	Beam-target helicity asymmetry E in $K^0 \pi^+$ and $K^0 \pi^0$ photoproduction on the neutron. Physical Review C, 2018, 98, .	1.1	8
120	Measurement of the helicity asymmetry E for the reaction $\gamma p \rightarrow \pi^0 p$. European Physical Journal A, 2021, 57, 40.	1.0	8
121	Measurement of the beam asymmetry Σ and the target asymmetry T in the photoproduction of π^0 mesons off the proton using CLAS at Jefferson Laboratory. Physical Review C, 2018, 97, .	1.1	7
122	First Measurements of the Double-Polarization Observables F , P , and H in π^0 photoproduction off the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 830, 137171.	2.9	7
123	Search for the tensor glueball. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 830, 137171.	1.5	7
124	Study of antiproton annihilation on neutrons into $\pi^+\pi^-\pi^0$. Nuclear Physics A, 2004, 740, 130-146.	0.6	6
125	$\hat{\Gamma}$ -resonances: Quark models, chiral symmetry and AdS/QCD. European Physical Journal A, 2008, 38, 187-194.	1.0	5
126	$\Lambda(1685)$ and $\Lambda(1685)$ Excitations and the Quark Model. European Physical Journal A, 2020, 56, 1.	1.0	5

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127	Further study of $D^+ s$ decays into $\bar{c}c + \bar{c}c$. European Physical Journal C, 2008, 55, 39-50.	1.4	4
128	Are the XYZ states unconventional states or conventional states with unconventional properties?. International Journal of Modern Physics A, 2020, 35, 2050019.	0.5	4
129	Thiel <i>et al.</i> Reply. Physical Review Letters, 2013, 110, 169102.	2.9	3
130	The Fragmented Glueball: A Personal View. EPJ Web of Conferences, 2022, 258, 08005.	0.1	1
131	The scalar and tensor glueball in production and decay. SciPost Physics Proceedings, 2022, , .	0.2	1
132	Scalar mesons from ρ to ω : a global view. Nuclear Physics, Section B, Proceedings Supplements, 2009, 186, 355-358.	0.5	0
133	Measurement of the beam asymmetry \hat{A}_N in $\bar{c}c$ production off the proton with the CBELSA/TAPS experiment. , 2008, , 190-192.		0