

# Eberhard Klempt

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9182566/publications.pdf>

Version: 2024-02-01

133  
papers

17,463  
citations

44042

48  
h-index

12585

132  
g-index

134  
all docs

134  
docs citations

134  
times ranked

13438  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Fragmented Glueball: A Personal View. EPJ Web of Conferences, 2022, 258, 08005.	0.1	1
2	Singlet-octet-gluonball mixing of scalar mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 826, 136906.	1.5	14
3	Search for the tensor glueball. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 830, 137171.	1.5	7
4	The scalar and tensor glueball in production and decay. SciPost Physics Proceedings, 2022, , .	0.2	1
5	Scalar isoscalar mesons and the scalar glueball from radiative $J/\psi$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136227.	1.5	36
6	Scalar mesons and the fragmented glueball. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136512.	1.5	14
7	Measurement of the helicity asymmetry $E$ for the reaction $\gamma p \rightarrow \pi^0 p \gamma$ . European Physical Journal A, 2021, 57, 40.	1.0	8
8	Hyperon III: $\Sigma^+ - \pi^0$ coupled-channel dynamics in the $\Lambda(1405)$ mass region. European Physical Journal A, 2020, 56, 1.	1.0	20
9	$\Lambda$ and $\Sigma$ Excitations and the Quark Model. European Physical Journal A, 2020, 56, 1.	1.0	5
10	Observation of the $\Lambda(1520)$ cusp in the New Precise Beam Asymmetry Data for $\Lambda p$ elastic scattering. International Journal of Modern Physics A, 2020, 35, 2050019.	2.9	15
11	Are the XYZ states unconventional states or conventional states with unconventional properties? New data on $\Lambda(1520)$ . International Journal of Modern Physics A, 2020, 35, 2050019.	0.5	4
12	Beam-target helicity asymmetry $E$ in $K^+p$ and $K^+n$ photoproduction on the neutron. Physical Review C, 2018, 98, .	1.5	16
13	Proton- $\Lambda$ interactions at threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 626-630.	2.9	7
14	Hyperon II: Properties of excited hyperons. European Physical Journal A, 2019, 55, 1.	1.0	22
15	Hyperon I: Partial-wave amplitudes for $K^+p$ scattering. European Physical Journal A, 2019, 55, 1.	1.0	13
16	Beam-target helicity asymmetry $E$ in $K^+p$ and $K^+n$ photoproduction on the neutron. Physical Review C, 2018, 98, .	1.1	8
17	Proton- $\Lambda$ interactions at threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 626-630.	1.5	20
18	Measurement of the beam asymmetry $E$ and the target asymmetry $T$ in the photoproduction of $\eta$ mesons off the proton using CLAS at Jefferson Laboratory. Physical Review C, 2018, 97, .	1.1	7

#	ARTICLE	IF	CITATIONS
19	Review of Particle Physics. Physical Review D, 2018, 98, .	1.6	5,390
20	Evidence for $\Lambda(2200)7/2\hat{\nu}$ 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
21	Double-polarization observable G in neutral-pion photoproduction off the proton. European Physical Journal A, 2017, 53, 1.	1.0	13
22	Differential cross sections and polarization observables from CLAS $\Lambda\check{\nu}$ photoproduction and the search for new $N\hat{\nu}$ states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 142-150.	1.5	14
23	Strong Evidence for Nucleon Resonances near 1900ÅMeV. Physical Review Letters, 2017, 119, 062004.	2.9	29
24	Scrutinizing the evidence for $\Lambda(1685)$ . Physical Review C, 2017, 95, .	1.6	1685
25	$N\hat{\nu}N\hat{\nu}^2$ decays from photoproduction of $\Lambda\hat{\nu}^2$ -mesons off protons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 247-252.	1.5	15
26	Beam-Target Helicity Asymmetry for $\Lambda^3\hat{\nu}n\hat{\nu}^2\hat{\nu}^2\hat{\nu}^2p$ in the $N^*$ Resonance Region. Physical Review Letters, 2017, 118, 242002.	2.9	26
27	Photon beam asymmetry $\hat{\nu}$ for $\Lambda$ and $\Lambda\hat{\nu}^2$ photoproduction from the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 213-221.	1.5	32
28	Neutron helicity amplitudes. Physical Review C, 2017, 96, .	1.1	20
29	Photon beam asymmetry $\hat{\nu}$ in the reaction $\Lambda^3\hat{\nu}p$ for $E = 1.152$ to $1.076\hat{\nu}^2$ MeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, .	1.5	11
30	Measurement of the helicity asymmetry $\hat{\nu}$ in $\Lambda\hat{\nu}^2$ photoproduction. Physical Review C, 2017, 96, .	1.1	13
31	$N^*$ resonances from $K\Lambda\hat{\nu}$ amplitudes in sliced bins in energy. European Physical Journal A, 2017, 53, 1.	1.0	13
32	Partial wave analysis. EPJ Web of Conferences, 2017, 134, 02002.	0.1	10
33	$N\hat{\nu}$ decays to $N\hat{\nu}$ from new data on $\Lambda^3p\hat{\nu}^2$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 97-101.	1.5	22
34	The impact of new polarization data from Bonn, Mainz and Jefferson Laboratory on $\hat{\nu}$ multipoles. European Physical Journal A, 2016, 52, 1.	1.0	45
35	Measurement of double polarisation asymmetries in $\hat{\nu}$ -photoproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 453-458.	1.5	11
36	The polarization observables T, P, and H and their impact on $\Lambda^3p$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 212-220.	1.5	27

#	ARTICLE	IF	CITATIONS
37	asurement of the polarization observable E in the $\langle \text{mml:math} \text{xmlns:mml=} \text{http://www.w3.org/1998/Math/MathML} \text{ altimg=} \text{sl1.gif} \text{ overflow=} \text{scroll} \rangle \langle \text{mml:mover} \text{ accent=} \text{"true"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \text{ stretchy=} \text{"false"} \rangle \hat{\text{t}}' \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:mo} \rangle$		

#	ARTICLE	IF	CITATIONS
55	Review of Particle Physics. Physical Review D, 2012, 86, .	1.6	5,054
56	Anomaly in the $K^0_S \rightarrow \pi^0 \pi^0$ photoproduction cross section off the proton at the $\Lambda(1520)$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 180-185.	1.5	43
57	Properties of baryon resonances from a multichannel partial wave analysis. European Physical Journal A, 2012, 48, 1.	1.0	271
58	Multiplet classification of light-quark baryons. European Physical Journal A, 2012, 48, 1.	1.0	21
59	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
60	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
61	Pion- and photo-induced transition amplitudes to $\Lambda(1520)$ , $\Lambda(1640)$ and $\Lambda(1690)$ . European Physical Journal A, 2012, 48, 1.	1.0	38
62	Photoproduction of $\eta'$ -mesons off the deuteron. European Physical Journal A, 2011, 47, 1.	1.0	37
63	P-wave excited baryons from pion- and photo-induced hyperon production. European Physical Journal A, 2011, 47, 1.	1.0	42
64	Quasi-free photoproduction of $\Lambda(1520)$ -mesons off the deuteron. European Physical Journal A, 2011, 47, 1.	1.0	68
65	Nucleon resonances in the fourth-resonance region. European Physical Journal A, 2011, 47, 1.	1.0	34
66	Photoproduction of neutral pions off protons. Physical Review C, 2011, 84, .	1.1	23
67	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
68	Baryon spectroscopy. Reviews of Modern Physics, 2010, 82, 1095-1153.	16.4	308
69	Photoproduction of meson pairs: First measurement of the polarization observable $\sigma_{\pi^0}^{\pi^0}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 687, 11-15.	1.5	38
70	Measurement of the beam asymmetry $\Sigma$ in the forward direction for $\Lambda(1520) \rightarrow \pi^0 p$ . Physical Review C, 2010, 81, 014001.	1.1	30
71	Photoproduction of $\Lambda(1520)$ and $\Lambda(1640)$ off protons. Physical Review C, 2009, 80, .	1.1	111
72	Scalar mesons from $\pi N$ : a global view. Nuclear Physics, Section B, Proceedings Supplements, 2009, 186, 355-358.	0.5	0

#	ARTICLE	IF	CITATIONS
73	Di-quark 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
74	Linearly polarised photon beams at ELSA and measurement of the beam asymmetry in $\pi^0$ photoproduction off the proton. European Physical Journal A, 2009, 39, 373-381.	1.0	56
75	Photoproduction of $\eta$ -mesons off neutrons from a deuteron target. European Physical Journal A, 2009, 41, 13-24.	1.0	47
76	Photoproduction of $\eta$ -mesons off neutrons from a deuteron target. European Physical Journal A, 2009, 41, 13-24. $N \rightarrow N \pi^0$ decays into $\eta$ mesons	1.5	67
77	Further evidence for $\Lambda(1520)$ resonance and $\Lambda(1520) \rightarrow \Lambda \pi^0$ partial wave. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008.	1.5	92
78	Further evidence for $\Lambda(1520)$ resonance and $\Lambda(1520) \rightarrow \Lambda \pi^0$ partial wave. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 662, 245-251.	1.5	47
79	Nucleon resonance decay by the $K^* \pi$ channel. European Physical Journal A, 2008, 35, 39-45.	1.0	49
80	$K^* \pi$ and $K^* \pi^+$ photoproduction off the proton. European Physical Journal A, 2008, 35, 333-342.	1.0	43
81	Photoproduction of $\eta$ -mesons off nuclei for $E_\gamma \approx 2.2$ GeV. European Physical Journal A, 2008, 38, 195-207.	1.0	29
82	Measurement of the beam asymmetry $\Sigma$ in $\eta$ production off the proton with the CBELSA/TAPS experiment. European Physical Journal A, 2008, 35, 291-293.	1.0	36
83	$\eta$ -resonances: Quark models, chiral symmetry and AdS/QCD. European Physical Journal A, 2008, 38, 187-194.	1.0	5
84	Study of the reaction $\eta \rightarrow \pi^0 \pi^0$ . European Physical Journal A, 2008, 38, 173-186.	1.0	61
85	Further study of $D^+ \rightarrow \eta \pi^+ \pi^0$ decays into $\eta \pi^+ \pi^0$ . European Physical Journal C, 2008, 55, 39-50.	1.4	4
86	Evidence for a Parity Doublet $\eta(1300)$ . $\eta \rightarrow \pi^0 \pi^0$ photoproduction off the proton. Physical Review D, 2008, 78, .	2.9	44
87	Beam asymmetries in near-threshold $\eta$ photoproduction off the proton. Physical Review D, 2008, 78, .	1.6	25
88	Quasifree Photoproduction of $\eta$ -Mesons off the Neutron. Physical Review Letters, 2008, 100, 252002.	2.9	96
89	Measurement of the beam asymmetry $\Sigma$ in $\eta$ production off the proton with the CBELSA/TAPS experiment. , 2008, , 190-192.		0
90	Photoproduction of $\eta$ -mesons off protons from the $\eta(1300)$ region to $E_\gamma = 3$ GeV. European Physical Journal A, 2007, 31, 61-77.	1.0	52

#	ARTICLE	IF	CITATIONS
91	Photoproduction of $\pi^0$ off protons for $E \leq 3$ GeV. European Physical Journal A, 2007, 31, 365-372.	1.0	10
92	Measurement of the beam asymmetry in $\pi^+$ photoproduction off the proton. European Physical Journal A, 2007, 33, 147-155.	1.0	89
93	Photoproduction of $\pi^-$ -mesons off protons. European Physical Journal A, 2007, 33, 133-146.	1.0	48
94	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
95	Baryon resonances and polarization transfer in hyperon photoproduction. European Physical Journal A, 2007, 34, 243-254.	1.0	53
96	Glueballs, hybrids, multiquarks. Physics Reports, 2007, 454, 1-202.	10.3	630
97	Phase motion of baryon resonances. European Physical Journal A, 2006, 29, 307-313.	1.0	12
98	The antinucleon-nucleon interaction at low energy: Annihilation dynamics. Physics Reports, 2005, 413, 197-317.	10.3	81
99	Photoproduction of $\pi$ -mesons and $\Sigma$ -baryons in the reaction $\pi^+ p \rightarrow \pi^+ \pi^-$ at energies up to $\sqrt{s} = 2.6$ GeV. European Physical Journal A, 2005, 23, 317-344.	1.0	41
100	Partial-wave decomposition of pion and photoproduction amplitudes. European Physical Journal A, 2005, 24, 111-128.	1.0	100
101	Measurement of the reaction $\pi^+ p \rightarrow K^+ \pi^+$ at photon energies up to 2.6 GeV. European Physical Journal A, 2005, 24, 275-285.	1.0	86
102	Photoproduction of baryons decaying into $N^*$ and $N$ . European Physical Journal A, 2005, 25, 427-439.	1.0	96
103	Decays of baryon resonances into $\pi^+ K^+$ , $\pi^0 K^+$ and $\pi^- K^0$ . European Physical Journal A, 2005, 25, 441-453.	1.0	112
104	Photoproduction of $\pi^0$ -Mesons off Protons for $0.75 \leq E < 3$ GeV. Physical Review Letters, 2005, 94, 012004.	1.0	11
105	Neutral-Pion Photoproduction off Protons in the Energy Range $0.3 \leq E < 3$ GeV. Physical Review Letters, 2005, 94, 012003.	1.0	76
106	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
107	Study of antiproton annihilation on neutrons into $\pi^+ \pi^-$ . Nuclear Physics A, 2004, 740, 130-146.	0.6	6
108	Low-energy photoproduction of $\omega$ -mesons. European Physical Journal A, 2003, 18, 117-127.	1.0	76

#	ARTICLE	IF	CITATIONS
109	Evidence for the positive-strangeness pentaquark $\hat{1}^+$ 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
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	Annihilation at rest of antiprotons and protons into neutral particles. Nuclear Physics A, 2003, 720, 357-367.	0.6	17
112	Mass formula for baryon resonances. Physical Review C, 2002, 66, .	1.1	39
113	Evidence for a $\hat{1}^{\prime}$ -P-wave in $\pi^+\pi^-$ annihilations at rest into $\hat{1}^{\prime}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 446, 349-355.	1.5	86
114	The $\hat{1}^{\prime}$ mass, width and line shape in annihilation at rest into $\hat{1}^{\prime} + \hat{1}^{\prime}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 469, 270-275.	1.5	12
115	$\pi^+\pi^-$ annihilation at rest into $\hat{1}^{\prime} + \hat{1}^{\prime}$ pspectator. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 450, 275-280.	1.5	12
116	Antiproton-proton annihilation at rest into $K^+K^-\hat{1}^{\prime}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 468, 178-188.	1.5	19
117	Measurement of $\hat{1}^{\prime} \rightarrow \pi^+\pi^-K^+\pi^+$ and $\hat{1}^{\prime} \rightarrow \pi^+\pi^-K^+\pi^0$ 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
118	Photoproduction of $\hat{1}^{\prime} \rightarrow \pi^+\pi^-$ mesons with the 4 $\pi^-$ detector SAPHIR. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 444, 555-562.	1.5	62
119	$\pi^+\pi^-$ annihilation at rest into $K^+K^-\hat{1}^{\prime}$ . Physical Review D, 1998, 57, 3860-3872.	1.6	69
120	High-mass $\hat{1}^{\prime}$ -meson states from $\pi^+\pi^-$ annihilation at rest into $\hat{1}^{\prime} + \hat{1}^{\prime}$ pspectator. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 391, 191-196.	1.5	27
121	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
122	Partial wave analysis in K-matrix formalism. Annalen Der Physik, 1995, 507, 404-430.	0.9	136
123	High-statistics study of $f_0(1500)$ decay into $\pi^+\pi^-$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 342, 433-439.	1.5	117
124	The suppression of $ss^{\prime}$ , pair creation from tensor meson decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 352, 467-471.	1.5	26
125	High statistics study of $f_0(1500)$ s decay into $\hat{1}^{\prime}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 353, 571-577.	1.5	48
126	Coupled channel analysis of $\pi^+\pi^-$ annihilation into $\hat{1}^{\prime} + \hat{1}^{\prime}$ , $\hat{1}^{\prime} + \hat{1}^{\prime}$ and $\hat{1}^{\prime} + \hat{1}^{\prime}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 355, 425-432.	1.5	123



#	ARTICLE	IF	CITATIONS
127	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
128	$\pi^+\pi^-$ threshold enhancement in $p\bar{p}$ annihilations into $\pi^0\pi^0$ at rest. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 340, 259-263.	1.5	52
129	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
130	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
131	Observation of a scalar resonance decaying to $\pi^+\pi^-\pi^0$ in annihilation at rest. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 322, 431-440.	1.5	45
132	Antiproton-proton annihilation at rest into two-body final states. Zeitschrift für Physik C-Particles and Fields, 1993, 58, 175-189.	1.5	60
133	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