

Fred Myhrer

List of Publications by Year in descending order

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103
papers

1,877
citations

279798

23
h-index

289244

40
g-index

104
all docs

104
docs citations

104
times ranked

624
citing authors

#	ARTICLE	IF	CITATIONS
1	Low Energy Antiproton Physics. Annual Review of Nuclear and Particle Science, 1991, 41, 219-267.	10.2	111
2	The nucleon-nucleon force and the quark degrees of freedom. Reviews of Modern Physics, 1988, 60, 629-661.	45.6	100
3	The baryon masses and the chiral quark bag model. Nuclear Physics A, 1981, 362, 317-330.	1.5	99
4	Neutrino-deuteron reactions at solar neutrino energies. Nuclear Physics A, 2002, 707, 561-576.	1.5	85
5	Chiral perturbation approach to the $pp\bar{p}$ reaction near threshold. Physical Review C, 1996, 53, 1519-1531.	2.9	75
6	A simple model for proton-antiproton scattering at low energies. Il Nuovo Cimento A, 1977, 40, 152-162.	0.2	68
7	A possible resolution of the proton spin problem. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 663, 302-305.	4.1	59
8	Entropy of hot matter produced in heavy ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1980, 95, 361-364.	4.1	55
9	Chiral perturbation theory and the $pp\bar{p}$ reaction near threshold. Physical Review C, 1997, 56, 1246-1255.	2.9	53
10	The 1S_0 $n\bar{d}$ capture rate in effective field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 533, 25-36.	4.1	53
11	Neutron beta-decay in effective field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 595, 250-259.	4.1	52
12	Pion bound states in nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1978, 74, 163-169.	4.1	51
13	Interference of dibaryon resonances with Faddeev amplitudes for elastic $\bar{p}d$ scattering. Journal of Physics C: Nuclear Physics, 1980, 6, 171-178.	0.8	50
14	One-boson exchange potentials and nucleon-antinucleon scattering. Il Nuovo Cimento A, 1977, 37, 21-31.	0.2	48
15	Effective kaon mass in baryonic matter and kaon condensation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 315, 17-23.	4.1	48
16	Pion-deuteron scattering in the $\bar{p}n$ (1236) energy region as a three-body problem. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1973, 46, 322-324.	4.1	38
17	On mass corrections and the axial coupling constant in the chiral quark model. Nuclear Physics A, 1981, 364, 322-332.	1.5	36
18	Spin structure functions and gluon exchange. Physical Review D, 1988, 38, 1633-1635.	4.7	36

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19	The spin content of the proton in the chiral bag. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 214, 123-126.	4.1	34
20	A next-to-next-to-leading-order $pp \rightarrow pp$ transition operator in chiral perturbation theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 465, 43-54.	4.1	30
21	Understanding the proton's spin structure. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 023101.	3.6	24
22	Validity of the impulse approximation in meson-nucleus scattering. Nuclear Physics A, 1975, 241, 524-532.	1.5	23
23	Capture rate and neutron helicity asymmetry for ordinary muon capture on hydrogen. Physical Review C, 2000, 63, .	2.9	23
24	SU(6) violations due to one-gluon exchange. Physical Review D, 1988, 37, 1950-1956.	4.7	21
25	Electromagnetic decays of excited hyperons. Nuclear Physics A, 1991, 529, 713-726.	1.5	21
26	Baryon magnetic moments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 128, 229-234.	4.1	20
27	Novel feature of the vector-meson solution in the Nambu-Jona-Lasinio model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 261, 221-228.	4.1	20
28	Nucleon RMS radii from chiral quark model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 110, 353-358.	4.1	19
29	Excited baryons in the bag. Zeitschrift für Physik C-Particles and Fields, 1984, 25, 281-297.	1.5	19
30	Radiative muon capture by a proton in chiral perturbation theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 416, 36-42.	4.1	19
31	Effective field theory calculations of NN \rightarrow NN. International Journal of Modern Physics E, 2014, 23, 1430004.	1.0	19
32	Electromagnetic decays of excited hyperons (II). Nuclear Physics A, 1993, 554, 593-619.	1.5	18
33	The quark model and the strange baryon magnetic moments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 125, 359-363.	4.1	17
34	A new dynamic selection rule for p into two mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 157, 247-249.	4.1	16
35	Toy model for pion production in nucleon-nucleon collisions. Physical Review C, 2001, 63, .	2.9	16
36	Elastic $pp \rightarrow pp$ reactions in short- and middle-distance QCD. Physical Review D, 1992, 46, 2891-2895.	4.7	15

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37	An important correction to π - d scattering in the resonance region. Nuclear Physics A, 1979, 326, 497-507.	1.5	14
38	Hyperon resonances in the chiral bag model. Physical Review D, 1989, 39, 3391-3401.	4.7	14
39	Pion-nucleon scattering and the nucleon Δ term in an extended linear σ model. Physical Review C, 2000, 61, .	2.9	14
40	Pion production in nucleon-nucleon collisions in chiral effective field theory: Next-to-next-to-leading order contributions. Physical Review C, 2012, 85, .	2.9	14
41	Octet Spin Fractions and the Proton Spin Problem. Physical Review Letters, 2013, 110, 202001.	7.8	14
42	On chiral pion coupling to bags. Zeitschrift für Physik C-Particles and Fields, 1983, 21, 73-82.	1.5	13
43	Nucleon-antinucleon annihilation via confined quark-gluon states. Physical Review D, 1985, 32, 1672-1680.	4.7	13
44	Excited quark-quark interactions in a bag model. Zeitschrift für Physik C-Particles and Fields, 1984, 25, 59-73.	1.5	12
45	Meson condensation in dense matter reexamined. Physical Review D, 1994, 50, 3549-3552.	4.7	12
46	Radiative corrections to antineutrino-proton scattering at low energies. Physical Review C, 2012, 85, .	2.9	11
47	Pion production in nucleon-nucleon collisions in chiral effective field theory with χ PT degrees of freedom. Physical Review C, 2013, 88, .	2.9	11
48	NEUTRINO EMISSIVITIES FROM DEUTERON BREAKUP AND FORMATION IN SUPERNOVAE. Astrophysical Journal, 2015, 801, 78.	4.5	11
49	Lepton-proton two-photon exchange in chiral perturbation theory. Physical Review D, 2020, 101, .	4.7	11
50	Baryon masses in the broken chiral quark bag. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 108, 372-376.	4.1	10
51	Can excited baryons be explained in a bag model?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 139, 81-84.	4.1	10
52	Derivation of a quark-antiquark multi-gluon annihilation potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 162, 237-243.	4.1	10
53	Meson-exchange models for low-energy nucleon-antinucleon scattering. Physical Review D, 1985, 32, 1663-1671.	4.7	10
54	Maximum asymmetry phenomena in and reactions. Nuclear Physics A, 1993, 556, 601-620.	1.5	9

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55	The K-Mesic atom. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1973, 45, 96-98.	4.1	8
56	Low energy p- scattering and the quark confinement radius. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 182, 6-10.	4.1	8
57	The proton spin sum rule chiral bag prediction, an update. Zeitschrift für Physik C-Particles and Fields, 1995, 68, 625-629.	1.5	8
58	Two-pion-exchange and other higher-order contributions to the $\pi\pi\pi$ reaction. Physical Review C, 2009, 80, .	2.9	8
59	Why the mixed six-quark spatial symmetry is essential for nucleon-nucleon repulsion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 174, 366-370.	4.1	7
60	An update of muon capture on hydrogen. International Journal of Modern Physics E, 2014, 23, 1430010.	1.0	7
61	The second EMC effect, semileptonic baryon decays and the chiral bag. Zeitschrift für Physik C-Particles and Fields, 1990, 48, 295-299.	1.5	6
62	An analysis of antiproton-proton reactions. Nuclear Physics A, 1990, 508, 513-523.	1.5	6
63	Amplitude analysis of the $N\bar{N}\pi$ reaction. Physical Review D, 1996, 53, 6120-6126.	4.7	6
64	BRST INVARIANT CP1 MODEL THROUGH IMPROVED DIRAC QUANTIZATION. Modern Physics Letters A, 2001, 16, 1361-1376.	1.2	6
65	Ordinary and radiative muon capture in liquid hydrogen reexamined. Physical Review C, 2002, 65, .	2.9	6
66	In-medium meson properties and field transformations. Physical Review C, 2003, 68, .	2.9	6
67	The Adler-Weisberger and Goldberger-Miyazawa-Oehme sum rules as probes of constraints from analyticity and chiral symmetry in dynamical models for pion-nucleon scattering. Nuclear Physics A, 2004, 736, 339-350.	1.5	6
68	Comparison of the heavy-fermion and Foldy-Wouthuysen formalisms at third order. Physical Review C, 2007, 76, .	2.9	6
69	Radiative and chiral corrections to elastic lepton-proton scattering in chiral perturbation theory. Physical Review D, 2021, 104, .	4.7	6
70	Two-pion-exchange contributions to the $n\bar{n}\pi$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 657, 187-191.	4.1	6
71	Threshold pion production in proton-proton collisions at NNLO in chiral EFT. European Physical Journal A, 2016, 52, 1.	2.5	5
72	Low-energy lepton-proton bremsstrahlung via effective field theory. European Physical Journal A, 2018, 54, 1.	2.5	5

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73	Radiative corrections for neutron decay and search for new physics. Journal of Research of the National Institute of Standards and Technology, 2005, 110, 315.	1.2	5
74	A meson exchange model for nucleon-nucleon polarization at 2 GeV/c. Physical Review C, 1984, 30, 298-300.	2.9	4
75	Use of χ PT in a chiral-perturbation-theory description of the $\pi p \rightarrow \pi n$ reaction. Physical Review C, 2006, 73, .	2.9	4
76	The effect of kaon condensation on quark-antiquark condensate in dense matter. Nuclear Physics A, 2007, 792, 249-263.	1.5	4
77	Pion-exchange contributions to the low-energy photodisintegration of deuterons. Nuclear Physics B, 1967, 3, 130-138.	2.5	3
78	The N scattering data and the nature of the NN repulsion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 288, 239-243.	4.1	3
79	Neutrino-deuteron reactions at solar neutrino energies. Nuclear Physics A, 2003, 721, C549-C552.	1.5	3
80	Fixed-Point Analysis of the Low-Energy Constants in the Pion-Nucleon Chiral Lagrangian. Progress of Theoretical Physics, 2004, 112, 289-297.	2.0	3
81	Comparison of the extended linear σ model and chiral perturbation theory. Physical Review C, 2005, 72, .	2.9	3
82	Electromagnetic decay of $\Delta(1520)$. Physical Review C, 2006, 74, .	2.9	3
83	Muon capture rate on hydrogen and the values of g_A and g_T . Physical Review C, 2013, 88, .	2.9	3
84	Ordinary muon capture in hydrogen reexamined. Physical Review C, 2013, 87, .	2.9	3
85	THE CHIRAL QUARK BAG: PROPERTIES AND SPECTROSCOPY OF BARYONS AND THE NUCLEAR FORCE. International Review of Nuclear Physics, 1985, , 325-407.	1.0	2
86	Neutrino magnetic moment contribution to the neutrino-deuteron reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 602, 60-66.	4.1	2
87	Ratio of the proton electromagnetic form factors from meson dressing. Physical Review C, 2005, 71, .	2.9	2
88	Neutrino Reactions with Deuteron in Core-Collapse Supernova. Few-Body Systems, 2013, 54, 1595-1598.	1.5	2
89	Maximum asymmetry phenomena in $\pi^+ p \rightarrow \pi^+ n$ and $\pi^+ p \rightarrow \pi^+ K^+ K^0$ reactions. AIP Conference Proceedings, 1992, 4, .		1
90	Quark-quark correlations and baryon electroweak observables. Physical Review D, 2002, 66, .	4.7	1

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91	Complete next-to-next-to-leading order calculation of NN $\hat{\pi}^{\dagger}$ NN $\hat{\pi}$ in chiral effective field theory. EPJ Web of Conferences, 2014, 81, 03003.	0.3	1
92	Lepton Bremsstrahlung at Low Energies. Few-Body Systems, 2018, 59, 1.	1.5	1
93	Pion-nucleon and pion-few nucleon interactions. Nuclear Physics A, 1980, 335, 255-265.	1.5	0
94	Antinucleon-nucleon annihilation dynamics. Nuclear Physics, Section B, Proceedings Supplements, 1989, 8, 193-202.	0.4	0
95	What have we learned from antiproton proton scattering?. Nuclear Physics, Section B, Proceedings Supplements, 1997, 56, 14-21.	0.4	0
96	Comparing the $p \rightarrow K^+ K^-$ and $p \rightarrow \bar{K}^0 K^+$ reactions. Zeitschrift für Physik A, 1997, 358, 423-427.	0.9	0
97	A next-to-next-to-leading-order $pp \rightarrow p\pi^0$ transition operator in chiral perturbation theory. Nuclear Physics A, 2000, 663-664, 465c-468c.	1.5	0
98	The Spin Content of the Proton. , 2009, , .		0
99	Effective field theory and electro-weak processes. , 2010, , .		0
100	Neutrino pion production off deuteron. EPJ Web of Conferences, 2016, 113, 04028.	0.3	0
101	LARGE TWO-PION-EXCHANGE CONTRIBUTIONS TO THE $pp \rightarrow p\pi^0$ REACTION. , 2007, , .		0
102	Some aspects of strange baryon decays. , 1990, , 105-110.		0
103	SPIN STRUCTURE OF THE PROTON. , 1991, , .		0