Fred Myhrer

List of Publications by Year
in descending order

103	1,877	279798	289244
papers	citations	23 h-index	40 g-index

104	104	104	624
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Radiative and chiral corrections to elastic lepton-proton scattering in chiral perturbation theory. Physical Review D, 2021, 104, .	4.7	6
2	Lepton-proton two-photon exchange in chiral perturbation theory. Physical Review D, 2020, 101, .	4.7	11
3	Lepton Bremsstrahlung at Low Energies. Few-Body Systems, 2018, 59, 1.	1.5	1
4	Low-energy lepton-proton bremsstrahlung via effective field theory. European Physical Journal A, 2018, 54, 1.	2.5	5
5	Neutrino pion production off deuteron. EPJ Web of Conferences, 2016, 113, 04028.	0.3	0
6	Threshold pion production in proton-proton collisions at NNLO in chiral EFT. European Physical Journal A, 2016, 52, 1.	2.5	5
7	NEUTRINO EMISSIVITIES FROM DEUTERON BREAKUP AND FORMATION IN SUPERNOVAE. Astrophysical Journal, 2015, 801, 78.	4.5	11
8	An update of muon capture on hydrogen. International Journal of Modern Physics E, 2014, 23, 1430010.	1.0	7
9	Effective field theory calculations of NN â†' NNÏ€. International Journal of Modern Physics E, 2014, 23, 1430004.	1.0	19
10	Complete next-to-next-to-leading order calculation ofNNâ†'NNÏ€in chiral effective field theory. EPJ Web of Conferences, 2014, 81, 03003.	0.3	1
11	Neutrino Reactions with Deuteron in Core-Collapse Supernova. Few-Body Systems, 2013, 54, 1595-1598.	1.5	2
12	Muon capture rate on hydrogen and the values ofgAandgÏ€NN. Physical Review C, 2013, 88, .	2.9	3
13	Octet Spin Fractions and the Proton Spin Problem. Physical Review Letters, 2013, 110, 202001.	7.8	14
14	Pion production in nucleon-nucleon collisions in chiral effective field theory with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î”</mml:mi><mml:mo>(</mml:mo><mml:mn>1232</mml:mn></mml:mrow></mml:math>) degrees of freedom. Physical Review C, 2013, 88, .	2.9	11
15	Ordinary muon capture in hydrogen reexamined. Physical Review C, 2013, 87, .	2.9	3
16	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
17	Radiative corrections to antineutrino-proton scattering at low energies. Physical Review C, 2012, 85, .	2.9	11
18	Understanding the proton's spin structure. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 023101.	3.6	24

#	Article	IF	Citations
19	Effective field theory and electro-weak processes. , 2010, , .		0
20	The Spin Content of the Proton. , 2009, , .		0
21	Two-pion-exchange and other higher-order contributions to theppâ†'ppÏ€0reaction. Physical Review C, 2009, 80, .	2.9	8
22	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
23	Comparison of the heavy-fermion and Foldy-Wouthuysen formalisms at third order. Physical Review C, 2007, 76, .	2.9	6
24	The effect of kaon condensation on quarkâ€“antiquark condensate in dense matter. Nuclear Physics A, 2007, 792, 249-263.	1.5	4
25	Two-pion-exchange contributions to the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>p</mml:mi><mml:mi>p</mml:mi><mml:mo>â†'</mml:mo><mml:mi>p</mml:mi><mml:mi>p</mml:mi><mml:mi>π</mml:mi><mml:mn>0</mml:mn></mml:math> reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 657, 187-191.	4.1	5
26	LARGE TWO-PION-EXCHANGE CONTRIBUTIONS TO THE pp â†' ppÏ€0 REACTION. , 2007, , .		0
27	Use ofVlowâˆ'kin a chiral-perturbation-theory description of theppâ†'ppÏ€0reaction. Physical Review C, 2006, 73, .	2.9	4
28	Electromagnetic decay ofÎ›(1520). Physical Review C, 2006, 74, .	2.9	3
29	Ratio of the proton electromagnetic form factors from meson dressing. Physical Review C, 2005, 71, .	2.9	2
30	Comparison of the extended linear Ïƒ model and chiral perturbation theory. Physical Review C, 2005, 72, .	2.9	3
31	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
32	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
33	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
34	Neutrino magnetic moment contribution to the neutrinoâ€“deuteron reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 602, 60-66.	4.1	2
35	The Adlerâ€“Weisberger and Goldbergerâ€“Miyazawaâ€“Oehme sum rules as probes of constraints from analyticity and chiral symmetry in dynamical models for pionâ€“nucleon scattering. Nuclear Physics A, 2004, 736, 339-350.	1.5	6
36	Neutrino-deuteron reactions at solar neutrino energies. Nuclear Physics A, 2003, 721, C549-C552.	1.5	3

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37	In-medium meson properties and field transformations. Physical Review C, 2003, 68, .	2.9	6
38	Quark-quark correlations and baryon electroweak observables. Physical Review D, 2002, 66, .	4.7	1
39	Ordinary and radiative muon capture in liquid hydrogen reexamined. Physical Review C, 2002, 65, .	2.9	6
40	The Î¼â¯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
41	Neutrinoâ€“deuteron reactions at solar neutrino energies. Nuclear Physics A, 2002, 707, 561-576.	1.5	85
42	BRST INVARIANT CP1 MODEL THROUGH IMPROVED DIRAC QUANTIZATION. Modern Physics Letters A, 2001, 16, 1361-1376.	1.2	6
43	Toy model for pion production in nucleon-nucleon collisions. Physical Review C, 2001, 63, .	2.9	16
44	A next-to-next-to-leading-order pp â†' ppÏ€0 transition operator in chiral perturbation theory. Nuclear Physics A, 2000, 663-664, 465c-468c.	1.5	0
45	Capture rate and neutron helicity asymmetry for ordinary muon capture on hydrogen. Physical Review C, 2000, 63, .	2.9	23
46	Pion-nucleon scattering and the nucleonÎ£term in an extended linearÎ£model. Physical Review C, 2000, 61, .	2.9	14
47	A next-to-next-to-leading-order ppâ†'ppÏ€0 transition operator in chiral perturbation theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 465, 43-54.	4.1	30
48	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
49	Chiral perturbation theory and theppâ†'ppÏ€0reaction near threshold. Physical Review C, 1997, 56, 1246-1255.	2.9	53
50	What have we learned from antiproton proton scattering?. Nuclear Physics, Section B, Proceedings Supplements, 1997, 56, 14-21.	0.4	0
51	Comparing the pÌ…p â†' K â¯ K + and pÌ…p â†' Ï€â¯Ï€+ reactions. Zeitschrift FÃ¼r Physik A, 1997, 358, 423-427.	0.9	0
52	Chiral perturbation approach to theppâ†'ppÏ€0reaction near threshold. Physical Review C, 1996, 53, 1519-1531.	2.9	75
53	Amplitude analysis of theNÂ¯Nâ†'Ï€â¯Ï€+reaction. Physical Review D, 1996, 53, 6120-6126.	4.7	6
54	The proton spin sum rule chiral bag prediction, an update. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1995, 68, 625-629.	1.5	8

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55	Meson condensation in dense matter reexamined. Physical Review D, 1994, 50, 3549-3552.	4.7	12
56	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
57	Electromagnetic decays of excited hyperons (II). Nuclear Physics A, 1993, 554, 593-619.	1.5	18
58	Maximum asymmetry phenomena in and reactions. Nuclear Physics A, 1993, 556, 601-620.	1.5	9
59	ElasticppandppÂ¯â†'ÏŒÏ€ reactions in short- and middle-distance QCD. Physical Review D, 1992, 46, 2891-2895.	4.7	15
60	Maximum asymmetry phenomena in pÌ„pâ†'Ï€âˆ'Ï€+ and pÌ„pâ†'Kâˆ'K+ reactions. AIP Conference Proceedings, 1992, , .	0.4	1
61	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
62	Electromagnetic decays of excited hyperons. Nuclear Physics A, 1991, 529, 713-726.	1.5	21
63	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
64	Low Energy Antiproton Physics. Annual Review of Nuclear and Particle Science, 1991, 41, 219-267.	10.2	111
65	SPIN STRUCTURE OF THE PROTON. , 1991, , .		0
66	The second EMC effect, semileptonic baryon decays and the chiral bag. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1990, 48, 295-299.	1.5	6
67	An analysis of antiproton-proton reactions. Nuclear Physics A, 1990, 508, 513-523.	1.5	6
68	Some aspects of strange baryon decays. , 1990, , 105-110.		0
69	Hyperon resonances in the chiral bag model. Physical Review D, 1989, 39, 3391-3401.	4.7	14
70	Antinucleon-nucleon annihilation dynamics. Nuclear Physics, Section B, Proceedings Supplements, 1989, 8, 193-202.	0.4	0
71	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
72	The nucleon-nucleon force and the quark degrees of freedom. Reviews of Modern Physics, 1988, 60, 629-661.	45.6	100

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73	SU(6) violations due to one-gluon exchange. Physical Review D, 1988, 37, 1950-1956.	4.7	21
74	Spin structure functions and gluon exchange. Physical Review D, 1988, 38, 1633-1635.	4.7	36
75	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
76	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
77	THE CHIRAL QUARK BAG: PROPERTIES AND SPECTROSCOPY OF BARYONS AND THE NUCLEAR FORCE. International Review of Nuclear Physics, 1985, , 325-407.	1.0	2
78	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
79	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
80	Nucleon-antinucleon annihilation via confined quark-gluon states. Physical Review D, 1985, 32, 1672-1680.	4.7	13
81	Meson-exchange models for low-energy nucleon-antinucleon scattering. Physical Review D, 1985, 32, 1663-1671.	4.7	10
82	A meson exchange model for nucleon-nucleon polarization at 2 GeV/c. Physical Review C, 1984, 30, 298-300.	2.9	4
83	Excited baryons in the bag. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1984, 25, 281-297.	1.5	19
84	Excited quark-quark interactions in a bag model. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1984, 25, 59-73.	1.5	12
85	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
86	On chiral pion coupling to bags. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1983, 21, 73-82.	1.5	13
87	Baryon magnetic moments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 128, 229-234.	4.1	20
88	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
89	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
90	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

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91	The baryon masses and the chiral quark bag model. Nuclear Physics A, 1981, 362, 317-330.	1.5	99
92	On mass corrections and the axial coupling constant in the chiral quark model. Nuclear Physics A, 1981, 364, 322-332.	1.5	36
93	Pion-nucleon and pion-few nucleon interactions. Nuclear Physics A, 1980, 335, 255-265.	1.5	0
94	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
95	Interference of dibaryon resonances with Faddeev amplitudes for elastic Ï€d scattering. Journal of Physics G: Nuclear Physics, 1980, 6, 171-178.	0.8	50
96	An important correction to Ï€d scattering in the resonance region. Nuclear Physics A, 1979, 326, 497-507.	1.5	14
97	Pion bound states in nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1978, 74, 163-169.	4.1	51
98	A simple model for proton-antiproton scattering at low energies. Il Nuovo Cimento A, 1977, 40, 152-162.	0.2	68
99	One-boson exchange potentials and nucleon-antinucleon scattering. Il Nuovo Cimento A, 1977, 37, 21-31.	0.2	48
100	Validity of the impulse approximation in meson-nucleus scattering. Nuclear Physics A, 1975, 241, 524-532.	1.5	23
101	The K-Mesic atom. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1973, 45, 96-98.	4.1	8
102	Pion-deutron scattering in the Î”(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
103	Pion-exchange contributions to the low-energy photodisintegration of deuterons. Nuclear Physics B, 1967, 3, 130-138.	2.5	3