

Jan M Friedrich

List of Publications by Year in descending order

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116
papers

6,263
citations

66343

42
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66911

78
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116
all docs

116
docs citations

116
times ranked

2135
citing authors

#	ARTICLE	IF	CITATIONS
1	The COMPASS experiment at CERN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 577, 455-518.	1.6	388
2	High-Precision Determination of the Electric and Magnetic Form Factors of the Proton. Physical Review Letters, 2010, 105, 242001.	7.8	363
3	First Measurement of the Transverse Spin Asymmetries of the Deuteron in Semi-inclusive Deep Inelastic Scattering. Physical Review Letters, 2005, 94, 202002.	7.8	275
4	The deuteron spin-dependent structure function $F_2^{\text{D,S}}(x, Q^2)$. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 490, 177-203.	4.1	258
5	Electric and magnetic form factors of the proton. Physical Review C, 2014, 90, .	2.9	224
6	Collins and Sivers asymmetries for pions and kaons in muon-deuteron DIS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 673, 127-135.	4.1	207
7	A new measurement of the Collins and Sivers asymmetries on a transversely polarised deuteron target. Nuclear Physics B, 2007, 765, 31-70.	2.5	203
8	Construction, test and commissioning of the triple-gem tracking detector for compass. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 490, 177-203.	1.6	200
9	Precise neutron magnetic form factors. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 524, 26-32.	4.1	167
10	Measurement of the Neutron Electric Form Factor $G_E^{\text{n}}(Q^2)$ via $^3\text{He}(e, e'p)^2$. Physical Review Letters, 1999, 83, 4257-4260.	7.8	160
11	Measurement of the Collins and Sivers asymmetries on transversely polarised protons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 692, 240-246.	4.1	142
12	The spin-dependent structure function of the proton $F_2^{\text{D,S}}(x, Q^2)$ and a test of the Bjorken sum rule. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 690, 466-472.	4.1	142
13	Measurement of the electric form factor of the neutron at $Q^2 = 0.3-0.8 \text{ (GeV/c)}^2$. European Physical Journal A, 2005, 24, 101-109.	2.5	125
14	Polarization transfer in the $^4\text{He}H$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 500, 47-52.	4.1	120
15	Quark helicity distributions from longitudinal spin asymmetries in muon-proton and muon-deuteron scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 227-235.	4.1	118
16	Quark helicity distributions from longitudinal spin asymmetries in muon-proton and muon-deuteron scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 227-235.	4.1	118
17	The neutron charge form factor and target analyzing powers from $^3\text{He}(e, e'p)^2$ scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 564, 199-204.	4.1	113
18	Observation of a Resonance in Diffractive Dissociation of ^3He . Physical Review Letters, 2010, 104, 241803.	7.8	112

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19	Measurement of the spin structure of the deuteron in the DIS region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 612, 154-164.	4.1	111
20	Experimental investigation of transverse spin asymmetries in $\hat{1}/4$ -p SIDIS processes: Sivers asymmetries. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 717, 383-389.	4.1	111
21	Experimental investigation of transverse spin asymmetries in $\hat{1}/4$ -p SIDIS processes: Collins asymmetries. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 717, 376-382.	4.1	101
22	QED radiative corrections to virtual Compton scattering. Physical Review C, 2000, 62, .	2.9	100
23	Measurement of GEp/GMp via polarization transfer at $Q^2 = 0.4 \text{ GeV}^2/c^2$. European Physical Journal A, 2001, 12, 125-127.	2.5	100
24	A measurement of the axial form factor of the nucleon by the $p(e, e' \pi^+)n$ reaction at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 468, 20-27.	4.1	95
25	The spin structure function g_1^p of the proton and a test of the Bjorken sum rule. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 18-28.	4.1	89
26	Measurement of the Recoil Polarization in the $p(e, e' \pi^+)n$ Reaction at the $\rho(1232)$ Resonance. Physical Review Letters, 2001, 86, 2959-2962.	7.8	88
27	First Measurement of Transverse-Spin-Dependent Azimuthal Asymmetries in the Drell-Yan Process. Physical Review Letters, 2017, 119, 112002.	7.8	86
28	Collins and Sivers asymmetries in muon production of pions and kaons off transversely polarised protons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 250-259.	4.1	81
29	The polarised valence quark distribution from semi-inclusive DIS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 660, 458-465.	4.1	72
30	Transverse spin effects in hadron-pair production from semi-inclusive deep inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 10-16.	4.1	70
31	Flavour separation of helicity distributions from deep inelastic muon-deuteron scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 680, 217-224.	4.1	66
32	A high-statistics measurement of transverse spin effects in dihadron production from muon-proton semi-inclusive deep-inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 124-131.	4.1	64
33	First Determination of Generalized Polarizabilities of the Proton by a Virtual Compton Scattering Experiment. Physical Review Letters, 2000, 85, 708-711.	7.8	63
34	Observation of a New Narrow Axial-Vector Meson $a_1(1260)$. Physical Review Letters, 2000, 85, 708-711.	7.8	60
35	The COMPASS setup for physics with hadron beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 779, 69-115.	1.6	59
36	Hadron transverse momentum distributions in muon deep inelastic scattering at 160 GeV/c. European Physical Journal C, 2013, 73, 1.	3.9	57

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55	Search for exclusive photoproduction of Z^0 at COMPASS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 1-10.	4.1	28
56	Resonance production and S -wave in π^0 muoproduction at COMPASS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 1-10.	4.7	28
57	Multiplicities of charged pions and charged hadrons from deep-inelastic scattering of muons off an isoscalar target. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 1-10.	4.1	28
58	The focal plane proton-polarimeter for the 3-spectrometer setup at MAMI. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 483, 713-725.	1.6	25
59	Covariant helicity-coupling amplitudes: A new formulation. Physical Review D, 2008, 78, .	4.7	25
60	Search for the ϕ Pentaquark at COMPASS. European Physical Journal C, 2005, 41, 469-474.	3.9	22
61	A new measurement of the structure functions PL - PT and PLT in virtual Compton scattering at $Q^2 = 0.33$ (GeV/c) 2 . European Physical Journal A, 2008, 37, 1-8.	2.5	22
62	Neutral Pion Threshold Production at $Q^2=0.05$ GeV $^2/c^2$ and Chiral Perturbation Theory. Physical Review Letters, 2001, 88, 012301.	7.8	21
63	Double spin asymmetry in exclusive π^0 muoproduction at COMPASS. European Physical Journal C, 2007, 52, 255-265.	3.9	19
64	First measurement of the Sivers asymmetry for gluons using SIDIS data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 854-864.	4.1	19
65	High-Precision Studies of the $H^3e(e,e\pi^2p)$ Reaction at the Quasielastic Peak. Physical Review Letters, 1999, 83, 2308-2311.	7.8	18
66	First Measurement of Chiral Dynamics in π^0 muoproduction at COMPASS. Physical Review Letters, 2012, 108, 192001.	7.8	18
67	Exclusive muoproduction on transversely polarised protons and deuterons. Nuclear Physics B, 2012, 865, 1-20.	2.5	18
68	Transverse target spin asymmetries in exclusive π^0 muoproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 551, 1-6.	4.1	18
69	Beam-Recoil Polarization Measurement of π^0 Electroproduction on the Proton in the Region of the Roper Resonance. Physical Review Letters, 2017, 119, 022001.	7.8	16
70	GEM detectors for COMPASS. IEEE Transactions on Nuclear Science, 2001, 48, 1065-1069.	2.0	15
71	Final state interaction effects in $^3He(e\pi^+,e\pi^2p)$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 559, 41-48.	4.1	15
72	Recoil Polarization and Beam-Recoil Double Polarization Measurement of π^0 Electroproduction on the Proton in the Region of the $S_{11}(1535)$ Resonance. Physical Review Letters, 2007, 99, 132301.	7.8	15

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91	Exclusive ρ^0 meson muoproduction on transversely polarised protons. Nuclear Physics B, 2017, 915, 454-475.	2.5	8
92	Self energies of the pion and the Λ^+ isobar from the $^3\text{He}(e, e^2\pi^+)^3\text{H}$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 530, 67-73.	4.1	7
93	A fast Tracker for COMPASS based on the GEM. Nuclear Physics, Section B, Proceedings Supplements, 2003, 125, 368-373.	0.4	7
94	The universal sampling ADC readout system of the COMPASS experiment. , 2009, , .		7
95	Study of $\Lambda(1385)$ and $\Lambda(1321)$ hyperon and antihyperon production in deep inelastic muon scattering. European Physical Journal C, 2013, 73, 1.	3.9	7
96	A Digital Trigger for the Electromagnetic Calorimeter at the COMPASS Experiment. IEEE Transactions on Nuclear Science, 2011, 58, 1719-1722.	2.0	6
97	Measurement of the cross section for high- p_T hadron production in the scattering of ^3He at 160 GeV/c. Nuclear Physics B, 2012, 866, 1078-1101.	4.7	6
98	Virtual compton scattering and polarizabilities. Progress in Particle and Nuclear Physics, 2000, 44, 371-389.	14.4	5
99	Measurement of the Exclusive $^3\text{He}(e, e^2p)$ Reaction Below the Quasielastic Peak. Physical Review Letters, 2004, 93, 132301.	7.8	5
100	D^+ and D^0 meson production in muon nucleon interactions at 160 GeV/c. European Physical Journal C, 2012, 72, 1.	3.9	5
101	Longitudinal double spin asymmetries in single hadron quasi-real photoproduction at high p_T . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 573-579.	4.1	5
102	Spin alignment and violation of the OZI rule in exclusive ρ^0 and π^0 production in pp collisions. Nuclear Physics B, 2014, 886, 1078-1101.	2.5	4
103	Measurement of RLT and ATL in the $^4\text{He}(e, e^2\pi^+)^3\text{H}$ reaction at p_{miss} of 130-300 MeV/c. European Physical Journal A, 2004, 22, 449-454.	2.5	3
104	Tests of Chiral Perturbation Theory with COMPASS. , 2010, , .		2
105	The first dedicated virtual compton scattering experiment at MAMI. Nuclear Physics A, 2000, 663-664, 389c-392c.	1.5	1
106	Cryogenic Silicon Detectors for the COMPASS Experiment at CERN. Nuclear Physics, Section B, Proceedings Supplements, 2011, 215, 310-312.	0.4	1
107	Tests of Chiral perturbation theory with COMPASS. EPJ Web of Conferences, 2014, 73, 05011.	0.3	1
108	Pion-photon reactions and chiral dynamics in Primakoff processes at COMPASS. AIP Conference Proceedings, 2016, , .	0.4	1

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109	ARCHITECTURE OF THE COMMON GEM AND SILICON READOUT FOR THE COMPASS EXPERIMENT. , 2002, , .		1
110	GEM DETECTORS FOR COMPASS. , 2002, , .		0
111	Hadron spectroscopy in photo- and hadroproduction at COMPASS. AIP Conference Proceedings, 2006, , .	0.4	0
112	Spin physics at COMPASS. European Physical Journal A, 2007, 31, 620-625.	2.5	0
113	A digital trigger for the electromagnetic calorimeter at the COMPASS experiment. , 2010, , .		0
114	Meson spectroscopy in diffractive dissociation of high-energetic pions at COMPASS. , 2011, , .		0
115	Upgrade of the COMPASS calorimetric trigger. Journal of Instrumentation, 2013, 8, C02038-C02038.	1.2	0
116	MEASUREMENT OF TRANSVERSE \hat{t} POLARISATION AT COMPASS. , 2005, , .		0