

# Jerrold Franklin

## List of Publications by Year in descending order

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72  
papers

895  
citations

471061

17  
h-index

476904

29  
g-index

73  
all docs

73  
docs citations

73  
times ranked

250  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Model of Baryons Made of Quarks with Hidden Spin. Physical Review, 1968, 172, 1807-1817.	2.7	141
2	Wave-function mixing of flavor-degenerate baryons. Physical Review D, 1981, 24, 2910-2917.	1.6	59
3	Nonstatic Relations between Magnetic Moments in the Quark Model. Physical Review, 1969, 182, 1607-1609.	2.7	52
4	Meson-Exchange Effects in Neutron-Proton Bremsstrahlung. Physical Review C, 1973, 8, 1706-1720.	1.1	42
5	Phenomenological quark model for baryon magnetic moments and beta decay ratios(GA/GV). Physical Review D, 2002, 66, .	1.6	40
6	Implications of baryon magnetic moments for the quark model. Physical Review D, 1979, 20, 1742-1745.	1.6	38
7	Mass relations for charmed baryons. Physical Review D, 1975, 12, 2077-2081.	1.6	36
8	Electromagnetic Properties of Baryons in a Quark-Diquark Model with BrokenSU(6). Physical Review, 1968, 174, 1681-1688.	2.7	35
9	General quark-model analysis of baryon magnetic moments. Physical Review D, 1984, 29, 2648-2651.	1.6	32
10	Proton-proton bremsstrahlung calculations at 280 MeV. Physical Review C, 1991, 44, 1296-1310.	1.1	27
11	Pion Production in Pion-Nucleon Scattering. Physical Review, 1957, 105, 1101-1108.	2.7	24
12	Pion contributions to baryon magnetic moments. Physical Review D, 1984, 30, 1542-1546.	1.6	24
13	Lorentz contraction, Bell's spaceships and rigid body motion in special relativity. European Journal of Physics, 2010, 31, 291-298.	0.3	24
14	Quark-Moment Contributions to Baryon Magnetic Moments. Physical Review Letters, 1980, 45, 1607-1610.	2.9	22
15	Saddle-Point Variational Method for the Dirac Equation. Physical Review Letters, 1985, 54, 2068-2070.	2.9	19
16	The spin content of the proton in the light-cone quark model without SU(3) flavour symmetry. Journal of Physics G: Nuclear and Particle Physics, 1991, 17, 213-220.	1.4	19
17	Threshold Kinematic Constraints and Correlations of Helicity Amplitudes. Physical Review, 1968, 170, 1606-1618.	2.7	18
18	Quark-parton model for the structure functionW2of the proton and neutron in their rest systems. Physical Review D, 1977, 16, 21-28.	1.6	17

#	ARTICLE	IF	CITATIONS
19	A SIMPLE DIRAC WAVE FUNCTION FOR A COULOMB POTENTIAL WITH LINEAR CONFINEMENT. Modern Physics Letters A, 1999, 14, 2409-2411.	0.5	16
20	Statistics of a confined, randomly accelerated particle with inelastic boundary collisions. Physical Review E, 2000, 61, 2376-2381.	0.8	14
21	Nucleon distribution amplitude and diquark clustering. Physical Review D, 1990, 42, 905-910.	1.6	13
22	Mixing of $\Sigma^0$ baryons. Physical Review D, 1997, 55, 425-426.	1.6	12
23	Baryon masses from deep-inelastic scattering. Physical Review D, 1980, 21, 241-248.	1.6	11
24	Scattering of $\pi^+$ Mesons by Nuclei. Physical Review, 1958, 109, 525-528.	2.7	10
25	Sum rules for charmed baryon masses. Physical Review D, 1996, 53, 564-565.	1.6	10
26	Kinematic Singularities of Partial-Wave Scattering Amplitudes. Physical Review, 1966, 152, 1437-1441.	2.7	9
27	Scaling and non-scaling in a rest frame quark-parton model of the proton. Nuclear Physics B, 1978, 138, 122-140.	0.9	9
28	Comment on "Some novel delta-function identities" by Charles P. Frahm [Am. J. Phys. 51, 826-829 (1983)]. American Journal of Physics, 2010, 78, 1225-1226.	0.3	9
29	Fermion Quarks of Spin 3/2. Physical Review, 1969, 180, 1583-1587.	2.7	7
30	Estimate of the quark-gluon coupling strength from baryon masses. Physical Review D, 1982, 25, 1997-1999.	1.6	7
31	Comment on "Octet baryon magnetic moments in the chiral quark model with configuration mixing" Physical Review D, 2000, 61, .	1.6	7
32	Possible Theoretical Interpretations of the Excited Hyperons. Physical Review, 1961, 124, 1995-1999.	2.7	6
33	Rigid Body Motion in Special Relativity. Foundations of Physics, 2013, 43, 1489-1501.	0.6	6
34	The electromagnetic momentum of static charge-current distributions. American Journal of Physics, 2014, 82, 869-875.	0.3	6
35	Reciprocal Bootstrap Model for the $\pi$ and $K$ Mesons. Physical Review, 1965, 137, B994-B996.	2.7	5
36	Unsubtracted Pion-Pion Dispersion Relation. Physical Review, 1967, 162, 1526-1528.	2.7	5

#	ARTICLE	IF	CITATIONS
37	Quarks of Almost Any Spin. <i>Physical Review</i> , 1969, 181, 1984-1988.	2.7	5
38	Approximate Solution of Partial-Wave Dispersion Relations. <i>Physical Review</i> , 1965, 139, B912-B917.	2.7	4
39	Dispersion relations for the Weinberg scattering amplitudes. <i>Physical Review D</i> , 1975, 11, 513-516.	1.6	4
40	Evidence for a narrow (S) resonance in pp annihilation at 1937 MeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1987, 184, 111-113.	1.5	4
41	New experimental tests of sum rules for charmed baryon masses. <i>Physical Review D</i> , 1999, 59, .	1.6	4
42	The lack of rotation in the Trouton-Noble experiment. <i>European Journal of Physics</i> , 2006, 27, 1251-1256.	0.3	4
43	$Y^*$ and $K^*$ in strong interactions. <i>Nuovo Cimento</i> , 1961, 20, 1024-1029.	1.0	3
44	Kinematic Singularities of Partial-Wave Scattering Amplitudes. <i>Physical Review</i> , 1967, 160, 1582-1582.	2.7	3
45	Theoretical status of baryon magnetic moments. <i>AIP Conference Proceedings</i> , 1989, , .	0.3	3
46	Application of sum rules to heavy baryon masses. <i>Physical Review D</i> , 1997, 55, 423-424.	1.6	3
47	EXACT SOLUTIONS OF THE DIRAC EQUATION FOR MODIFIED COULOMBIC POTENTIALS. <i>International Journal of Modern Physics A</i> , 2000, 15, 4355-4360.	0.5	3
48	Complete Lorentz transformation of a charge-current density. <i>International Journal of Modern Physics A</i> , 2020, 35, 2050061.	0.5	3
49	Quark model relations for b-baryon decay. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2020, 47, 085001.	1.4	3
50	Scattering of $\frac{1}{2}^+$ Mesons by Nuclei. <i>Physical Review</i> , 1958, 111, 296-297.	2.7	2
51	Solution of ap-Wave Equation for Pion-Pion Scattering. <i>Physical Review</i> , 1965, 137, B172-B177.	2.7	2
52	Multichannel calculations in molecular physics: Study of coupled square wells—an exactly soluble model. <i>Journal of Chemical Physics</i> , 1977, 66, 1744-1754.	1.2	2
53	Saddle-point variational method for relativistic excited states. <i>Physical Review A</i> , 1987, 36, 5839-5840.	1.0	2
54	Relativistic calculation of ground-state baryon masses. <i>Nuclear Physics A</i> , 1995, 585, 450-462.	0.6	2

#	ARTICLE	IF	CITATIONS
55	Internal Symmetries in Bootstrap Dispersion Relations. Physical Review, 1965, 138, B1202-B1207.	2.7	1
56	Study of the $\pi$ and $\eta$ Mesons in $\pi$ - $\pi$ Scattering. Physical Review, 1966, 148, 1501-1514.	2.7	1
57	Quark spin properties at high x. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 587, 211-215.	1.5	1
58	The lack of rotation in a moving right angle lever. European Journal of Physics, 2008, 29, N55-N58.	0.3	1
59	Comment on "Energy flow in a bound electromagnetic field: resolution of apparent paradoxes". European Journal of Physics, 2010, 31, L17-L20.	0.3	1
60	What is the force on a magnetic dipole?. European Journal of Physics, 2018, 39, 035201.	0.3	1
61	Comment on: "Lorentz transformation of a charge-current density and relativistic polarization" of a moving current loop. International Journal of Modern Physics A, 0, , 2175001.	0.5	1
62	Radiation reaction force on an accelerating point charge. International Journal of Modern Physics A, 2022, 37, .	0.5	1
63	Double Spectral Approximation for Pion Scattering. Physical Review, 1969, 184, 1873-1876.	2.7	0
64	Comment on "Threshold Kinematic Constraints and Correlations of Helicity Amplitudes". Physical Review D, 1970, 2, 811-811.	1.6	0
65	Decay Correlations in Resonance Production Using Quarks of Spin 3/2. Physical Review D, 1971, 3, 166-168.	1.6	0
66	Parity of the antiproton. Physical Review D, 1977, 16, 910-910.	1.6	0
67	Deep inelastic proton Compton scattering in the rest frame quark-parton model. Il Nuovo Cimento A, 1981, 66, 248-256.	0.2	0
68	Sum rule analysis of hyperon magnetic moments. AIP Conference Proceedings, 1982, , .	0.3	0
69	Saddle point variational method for relativistic bound states. AIP Conference Proceedings, 1985, , .	0.3	0
70	How High is High x?. AIP Conference Proceedings, 2005, , .	0.3	0
71	Response to "Comment on 'The electromagnetic momentum of static charge-current distributions'" [Am. J. Phys. 83, 279 (2015)]. American Journal of Physics, 2015, 83, 280-280.	0.3	0
72	Geoff Chew of Illinois. , 2021, , 70-71.		0