Frank Wilczek

List of Publications by Year
in descending order

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212 papers	34,752 citations	14124 69 h-index	3782 185 g-index
229 all docs	229 docs citations	229 times ranked	18431 citing authors

#	Article	IF	Citations
1	Quantum Computing by Coherent Cooling. Physical Review A, 2022, 105, .	1.0	2
2	Entanglement Enabled Intensity Interferometry of different wavelengths of light. Annals of Physics, 2021, 424, 168346.	1.0	3
3	Signatures of the quantization of gravity at gravitational wave detectors. Physical Review D, 2021, 104, .	1.6	40
4	Improved Spatial Resolution Achieved by Chromatic Intensity Interferometry. Physical Review Letters, 2021, 127, 103601.	2.9	3
5	Quantum Mechanics of Gravitational Waves. Physical Review Letters, 2021, 127, 081602.	2.9	33
6	Adiabatic construction of hierarchical quantum Hall states. Physical Review B, 2021, 104, .	1.1	8
7	Quanta of the Third Kind. Inference, 2021, 6, .	0.0	0
8	The noise of gravitons. International Journal of Modern Physics D, 2020, 29, 2042001.	0.9	40
9	Geometric Induction in Chiral Superconductors. Physical Review Letters, 2020, 124, 197001.	2.9	7
10	Freeman Dyson (1923â€“2020). Science, 2020, 368, 715-715.	6.0	0
11	Quantum Overlapping Tomography. Physical Review Letters, 2020, 124, 100401.	2.9	65
12	Spectroscopy of Spinons in Coulomb Quantum Spin Liquids. Physical Review Letters, 2020, 124, 097204.	2.9	9
13	Finite thermal particle creation of Casimir light. Modern Physics Letters A, 2020, 35, 2040006.	0.5	14
14	Quantum independent-set problem and non-Abelian adiabatic mixing. Physical Review A, 2020, 101, .	1.0	7
15	Black and white holes at material junctions. Physical Review Research, 2020, 2, .	1.3	27
16	Chromatic interferometry with small frequency differences. Optics Express, 2020, 28, 32294.	1.7	2
17	Three Easy Pieces (in Tribute to Roman Jackiw). , 2020, , 287-299.		0
18	The evolving unity of physics. Nature Reviews Physics, 2019, 1, 5-7.	11.9	0

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19	Regularizations of time-crystal dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18772-18776.	3.3	16
20	Tunable Axion Plasma Haloscopes. Physical Review Letters, 2019, 123, 141802.	2.9	130
21	Quantum atmospherics for materials diagnosis. Physical Review B, 2019, 99, .	1.1	8
22	Chiral Casimir forces: Repulsive, enhanced, tunable. Physical Review B, 2019, 99, .	1.1	50
23	Axial Casimir force. Physical Review B, 2019, 99, .	1.1	14
24	Truncated dynamics, ring molecules, and mechanical time crystals. Physical Review A, 2019, 99, .	1.0	11
25	Color Erasure Detectors Enable Chromatic Interferometry. Physical Review Letters, 2019, 123, 243601.	2.9	12
26	Light, the universe and everything â€“ 12 Herculean tasks for quantum cowboys and black diamond skiers. Journal of Modern Optics, 2018, 65, 1261-1308.	0.6	6
27	Dilute and dense axion stars. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 777, 64-72.	1.5	134
28	SO(3) family symmetry and axions. Physical Review D, 2018, 98, .	1.6	20
29	Superdensity operators for spacetime quantum mechanics. Journal of High Energy Physics, 2018, 2018, 1.	1.6	38
30	A Friendly Ghost Story. , 2018, , 33-34.		0
31	Inflation driven by unification energy. Physical Review D, 2017, 95, .	1.6	4
32	Experimental test of entangled histories. Annals of Physics, 2017, 387, 334-347.	1.0	10
33	A model of comprehensive unification. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 667-670.	1.5	18
34	Statistics of Fractionalized Excitations through Threshold Spectroscopy. Physical Review Letters, 2017, 118, 227201.	2.9	40
35	Entangled histories. Physica Scripta, 2016, T168, 014004.	1.2	23
36	Unification of force and substance. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150257.	1.6	7

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37	A weighty mass difference. Nature, 2015, 520, 303-304.	13.7	4
38	Emergent Majorana mass and axion couplings in superfluids. New Journal of Physics, 2014, 16, 082003.	1.2	8
39	From B-modes to quantum gravity and unification of forces. International Journal of Modern Physics D, 2014, 23, 1441001.	0.9	9
40	Multiversality. Classical and Quantum Gravity, 2013, 30, 193001.	1.5	7
41	Algebra of Majorana Doubling. Physical Review Letters, 2013, 111, 226402.	2.9	21
42	Superfluidity and Space-Time Translation Symmetry Breaking. Physical Review Letters, 2013, 111, 250402.	2.9	73
43	Wilczek Reply:. Physical Review Letters, 2013, 110, 118902.	2.9	33
44	The enigmatic electron. Nature, 2013, 498, 31-32.	13.7	29
45	The God Problem: How a Godless Cosmos CreatesThe God Problem: How a Godless Cosmos Creates, Howard Bloom, Prometheus Books, Amherst, NY, 2012. $28.00 (575 pp.). ISBN 978-1-61614-551-4. Physics Today, 2013, 66, 53-54.	0.3	0
46	Ken Wilson: A scientific appreciation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12855-12856.	3.3	1
47	Origins of mass. Open Physics, 2012, 10, .	0.8	24
48	Branched Quantization. Physical Review Letters, 2012, 109, 200402.	2.9	25
49	Quantum Time Crystals. Physical Review Letters, 2012, 109, 160401.	2.9	559
50	Classical Time Crystals. Physical Review Letters, 2012, 109, 160402.	2.9	231
51	Majorana modes materialize. Nature, 2012, 486, 195-196.	13.7	35
52	Editorial for July 2010 Special Issue. Annals of Physics, 2010, 325, 1327.	1.0	0
53	BCS AS FOUNDATION AND INSPIRATION: THE TRANSMUTATION OF SYMMETRY. Modern Physics Letters A, 2010, 25, 3169-3189.	0.5	5
54	BCS AS FOUNDATION AND INSPIRATION: THE TRANSMUTATION OF SYMMETRY. , 2010, , 535-558.		2

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55	Majorana returns. Nature Physics, 2009, 5, 614-618.	6.5	826
56	Running inflation in the Standard Model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 678, 1-8.	1.5	338
57	January 2009 special issue. Annals of Physics, 2009, 324, 1.	1.0	0
58	Anticipating a new Golden Age. European Physical Journal C, 2009, 59, 185-196.	1.4	4
59	January special issue. Annals of Physics, 2008, 323, 1.	1.0	3
60	Mass by numbers. Nature, 2008, 456, 449-450.	13.7	7
61	Axion cosmology and the energy scale of inflation. Physical Review D, 2008, 78, .	1.6	189
62	ANTICIPATING A NEW GOLDEN AGE. International Journal of Modern Physics A, 2008, 23, 1791-1811.	0.5	11
63	Anticipating a New Golden Age. , 2008, , 233-257.		1
64	Hard-core revelations. Nature, 2007, 445, 156-157.	13.7	23
65	Lifestyles of the small and simple. Nature Physics, 2007, 3, 375-376.	6.5	20
66	Dimensionless constants, cosmology, and other dark matters. Physical Review D, 2006, 73, .	1.6	276
67	THE ORIGIN OF MASS. Modern Physics Letters A, 2006, 21, 701-712.	0.5	20
68	Gravitational Correction to Running of Gauge Couplings. Physical Review Letters, 2006, 96, 231601.	2.9	124
69	Anomalies, Hawking radiations, and regularity in rotating black holes. Physical Review D, 2006, 74, .	1.6	216
70	Did the Big Bang boil?. Nature, 2006, 443, 637-638.	13.7	10
71	Stability conditions and Fermi surface topologies in a superconductor. Physical Review B, 2006, 74, .	1.1	40
72	Hawking Radiation from Charged Black Holes via Gauge and Gravitational Anomalies. Physical Review Letters, 2006, 96, 151302.	2.9	214

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73	THE UNIVERSE IS A STRANGE PLACE. International Journal of Modern Physics A, 2006, 21, 2011-2025.	0.5	7
74	HADRON SYSTEMATICS AND EMERGENT DIQUARKS. , 2006, , .		45
75	THE UNIVERSE IS A STRANGE PLACE. , 2006, , .		0
76	In search of symmetry lost. Nature, 2005, 433, 239-247.	13.7	39
77	An emptier emptiness?. Nature, 2005, 435, 152-153.	13.7	6
78	An explorer and surveyor. Nature, 2005, 437, 1095-1095.	13.7	0
79	DIQUARKS AS INSPIRATION AND AS OBJECTS. , 2005, , 77-93.		23
80	Nobel Lecture: Asymptotic freedom: From paradox to paradigm. Reviews of Modern Physics, 2005, 77, 857-870.	16.4	33
81	Nobel Lecture: Asymptotic freedom: From paradox to paradigm. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8403-8413.	3.3	36
82	YANGâ€“MILLS THEORY IN, BEYOND, AND BEHIND OBSERVED REALITY. , 2005, , 255-267.		0
83	From 'not wrong' to (maybe right). Nature, 2004, 428, 261-261.	13.7	4
84	From concept to reality to vision. European Physical Journal C, 2004, 33, s1-s4.	1.4	1
85	A perspective on pentaquarks. European Physical Journal C, 2004, 33, s38-s42.	1.4	15
86	The Universe is a Strange Place. Nuclear Physics, Section B, Proceedings Supplements, 2004, 134, 3-12.	0.5	5
87	Spin-dependent Hubbard model and a quantum phase transition in cold atoms. Physical Review A, 2004, 70, .	1.0	88
88	The Dirac Equation. International Journal of Modern Physics A, 2004, 19, 45-74.	0.5	2
89	QCD and Natural Philosophy. Annales Henri Poincare, 2003, 4, 211-228.	0.8	16
90	Diquarks and Exotic Spectroscopy. Physical Review Letters, 2003, 91, 232003.	2.9	649

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91	Observability of Earth-Skimming Ultrahigh Energy Neutrinos. Physical Review Letters, 2002, 88, 161102.	2.9	141
92	Scaling Mount Planck III: Is That All There Is?. Physics Today, 2002, 55, 10-11.	0.3	9
93	Setting standards. Nature, 2002, 415, 265-265.	13.7	7
94	SOME BASIC ASPECTS OF FRACTIONAL QUANTUM NUMBERS. World Scientific Series in 20th Century Physics, 2002, , 135-152.	0.0	4
95	WHAT QCD TELLS US ABOUT NATURE. , 2002, , .		0
96	Learning from QCD. AIP Conference Proceedings, 2001, , .	0.3	0
97	Precision precession. Nature, 2001, 410, 28-29.	13.7	7
98	When words fail. Nature, 2001, 410, 149-149.	13.7	3
99	Newton rules (for now). Nature, 2001, 410, 881-882.	13.7	2
100	FUTURE SUMMARY. International Journal of Modern Physics A, 2001, 16, 1653-1677.	0.5	7
101	FUTURE SUMMARY. International Journal of Modern Physics A, 2001, 16, 129-153.	0.5	1
102	THE CONDENSED MATTER PHYSICS OF QCD. , 2001, , 2061-2151.		131
103	Enforced Electrical Neutrality of the Color-Flavor Locked Phase. Physical Review Letters, 2001, 86, 3492-3495.	2.9	255
104	Minimal color-flavor-lockedâ€“nuclear interface. Physical Review D, 2001, 64, .	1.6	224
105	Josephson Effect without Superconductivity: Realization in Quantum Hall Bilayers. Physical Review Letters, 2001, 86, 1833-1836.	2.9	96
106	Backyard exotica. Nature, 2000, 404, 452-453.	13.7	2
107	Minimal Potentials with Very Many Minima. Physical Review Letters, 2000, 84, 2285-2289.	2.9	3
108	Charged stripes from an alternating static magnetic field. Physical Review B, 2000, 62, 4208-4210.	1.1	2

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109	The Quantum Theory of Fields, Vol. 3: Supersymmetry. Physics Today, 2000, 53, 55-56.	0.3	11
110	Hawking Radiation As Tunneling. Physical Review Letters, 2000, 85, 5042-5045.	2.9	1,592
111	Continuity of Quark and Hadron Matter. Physical Review Letters, 1999, 82, 3956-3959.	2.9	296
112	And you're glue. Nature, 1999, 400, 21-22.	13.7	2
113	Getting its from bits. Nature, 1999, 397, 303-306.	13.7	20
114	Maxwell's other demon. Nature, 1999, 402, 22-23.	13.7	3
115	Quantum field theory. Reviews of Modern Physics, 1999, 71, S85-S95.	16.4	49
116	Numerical Simulation Nixed as â€˜Jugglingâ€™, Reply is Planely Verse. Physics Today, 1999, 52, 113-113.	0.3	0
117	Neutrino deficit challenges conservation laws. Nature, 1998, 391, 123-124.	13.7	6
118	Liberating quarks and gluons. Nature, 1998, 391, 330-331.	13.7	3
119	Nuclear and subnuclear boiling. Nature, 1998, 395, 220-221.	13.7	6
120	SO(10) marshals the particles. Nature, 1998, 394, 15-15.	13.7	6
121	Color superconductivity and signs of its formation. Nuclear Physics A, 1998, 638, 515c-518c.	0.6	19
122	LECTURES ON BLACK HOLE QUANTUM MECHANICS. International Journal of Modern Physics A, 1998, 13, 5279-5372.	0.5	2
123	Riemann-Einstein Structure from Volume and Gauge Symmetry. Physical Review Letters, 1998, 80, 4851-4854.	2.9	82
124	THE FUTURE OF PARTICLE PHYSICS AS A NATURAL SCIENCE. International Journal of Modern Physics A, 1998, 13, 863-886.	0.5	7
125	Resolution of cosmological singularities in string theory. Physical Review D, 1997, 55, 4591-4595.	1.6	37
126	Cross-Confinement in Multi-Chern-Simons Theories. Physical Review Letters, 1997, 78, 4679-4681.	2.9	6

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127	Populated Domain Walls. Physical Review Letters, 1997, 78, 2465-2468.	2.9	51
128	Panning for gold at the K stream. Nature, 1997, 389, 671-673.	13.7	3
129	2n-quasihole states realize 2nâ^'1-dimensional spinor braiding statistics in paired quantum Hall states. Nuclear Physics B, 1996, 479, 529-553.	0.9	424
130	A crack in the Standard Model?. Nature, 1996, 380, 19-20.	13.7	4
131	PHYSICAL PROPERTIES OF METALS FROM A RENORMALIZATION GROUP STANDPOINT. International Journal of Modern Physics B, 1996, 10, 847-862.	1.0	4
132	Quantum Numbers of Textured Hall Effect Quasiparticles. Physical Review Letters, 1996, 77, 4418-4421.	2.9	13
133	Experimental Consequences of a Minimal Messenger Model for Supersymmetry Breaking. Physical Review Letters, 1996, 77, 3070-3073.	2.9	107
134	POSSIBLE ELECTRONIC STRUCTURE OF DOMAIN WALLS IN MOTT INSULATORS. International Journal of Modern Physics B, 1996, 10, 2125-2136.	1.0	16
135	Exclusion Statistics: Low-Temperature Properties, Fluctuations, Duality, and Applications. Physical Review Letters, 1994, 73, 2740-2743.	2.9	120
136	Remarks on hot QCD. Nuclear Physics A, 1994, 566, 123-132.	0.6	20
137	Static and dynamic critical phenomena at a second order QCD phase transition. Nuclear Physics B, 1993, 399, 395-425.	0.9	440
138	Beyond the Standard Model*. Annals of the New York Academy of Sciences, 1993, 688, 94-112.	1.8	0
139	Paired Hall states in double-layer electron systems. Physical Review B, 1992, 46, 9586-9589.	1.1	36
140	Disassembling anyons. Physical Review Letters, 1992, 69, 132-135.	2.9	61
141	Internal frame dragging and a global analog of the Aharonov-Bohm effect. Physical Review Letters, 1992, 68, 2567-2571.	2.9	63
142	Paired Hall states. Nuclear Physics B, 1992, 374, 567-614.	0.9	334
143	Exact solutions and the adiabatic heuristic for quantum Hall states. Nuclear Physics B, 1992, 370, 577-600.	0.9	43
144	Quantum hair and quantum gravity. General Relativity and Gravitation, 1992, 24, 9-16.	0.7	5

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145	Growing hair on black holes. Physical Review Letters, 1991, 67, 1975-1978.	2.9	59
146	Inflationary axion cosmology. Physical Review Letters, 1991, 66, 5-8.	2.9	155
147	Paired Hall state at half filling. Physical Review Letters, 1991, 66, 3205-3208.	2.9	350
148	Interactions and excitations of non-Abelian vortices. Physical Review Letters, 1990, 64, 1632-1635.	2.9	128
149	Space-time approach to holonomy scattering. Physical Review Letters, 1990, 65, 13-16.	2.9	40
150	Positron line radiation as a signature of particle dark matter in the halo. Physical Review D, 1990, 42, 1001-1007.	1.6	121
151	Relic gravitational waves and extended inflation. Physical Review Letters, 1990, 65, 3080-3083.	2.9	157
152	HEURISTIC PRINCIPLE FOR QUANTIZED HALL STATES. Modern Physics Letters B, 1990, 04, 1063-1069.	1.0	56
153	Consequences of time-reversal-symmetry violation in models of high-Tcsuperconductors. Physical Review B, 1989, 40, 8726-8744.	1.1	163
154	Discrete gauge symmetry in continuum theories. Physical Review Letters, 1989, 62, 1221-1223.	2.9	549
155	Efficiencies of self-propulsion at low Reynolds number. Journal of Fluid Mechanics, 1989, 198, 587.	1.4	91
156	Geometry of self-propulsion at low Reynolds number. Journal of Fluid Mechanics, 1989, 198, 557.	1.4	318
157	Chiral spin states and superconductivity. Physical Review B, 1989, 39, 11413-11423.	1.1	905
158	Gauge kinematics of deformable bodies. American Journal of Physics, 1989, 57, 514-518.	0.3	51
159	Aharonov-Bohm interaction of cosmic strings with matter. Physical Review Letters, 1989, 62, 1071-1074.	2.9	241
160	Gauge theories of swimming. Physics World, 1989, 2, 36-40.	0.0	1
161	Possible New Form of SpontaneousTViolation. Physical Review Letters, 1988, 61, 2066-2068.	2.9	68
162	Lattice Fermions. Physical Review Letters, 1987, 59, 2397-2400.	2.9	60

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163	Two applications of axion electrodynamics. Physical Review Letters, 1987, 58, 1799-1802.	2.9	667
164	Self-Propulsion at Low Reynolds Number. Physical Review Letters, 1987, 58, 2051-2054.	2.9	166
165	Realizations of Magnetic-Monopole Gauge Fields: Diatoms and Spin Precession. Physical Review Letters, 1986, 56, 893-896.	2.9	265
166	MacroscopicTNonconservation: Prospects for a New Experiment. Physical Review Letters, 1986, 56, 1623-1626.	2.9	16
167	Solar System constraints and signatures for dark-matter candidates. Physical Review D, 1986, 33, 2079-2083.	1.6	206
168	Calculations for cosmic axion detection. Physical Review Letters, 1985, 55, 1797-1800.	2.9	151
169	Solar-neutrino oscillations. Physical Review Letters, 1985, 55, 122-125.	2.9	35
170	Resonant Scattering and Charm Showers in Ultrahigh-Energy Neutrino Interactions. Physical Review Letters, 1985, 55, 1252-1253.	2.9	16
171	Bolometric detection of neutrinos. Physical Review Letters, 1985, 55, 25-28.	2.9	185
172	Examples of vacuum polarization by solitons. Physical Review D, 1984, 30, 2260-2263.	1.6	28
173	Foundations and working pictures in microphysical cosmology. Physics Reports, 1984, 104, 143-157.	10.3	72
174	Fractional Statistics and the Quantum Hall Effect. Physical Review Letters, 1984, 53, 722-723.	2.9	919
175	Illustrations of vacuum polarization by solitons. Physical Review D, 1984, 30, 2194-2200.	1.6	68
176	Remarks on the chiral phase transition in chromodynamics. Physical Review D, 1984, 29, 338-341.	1.6	980
177	Appearance of Gauge Structure in Simple Dynamical Systems. Physical Review Letters, 1984, 52, 2111-2114.	2.9	1,433
178	New macroscopic forces?. Physical Review D, 1984, 30, 130-138.	1.6	361
179	Cosmology of the invisible axion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 120, 127-132.	1.5	2,201
180	Particleâ€“antiparticle annihilation in diffusive motion. Journal of Chemical Physics, 1983, 78, 2642-2647.	1.2	711

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181	Linking Numbers, Spin, and Statistics of Solitons. Physical Review Letters, 1983, 51, 2250-2252.	2.9	691
182	Physical processes involving Majorana neutrinos. Physical Review D, 1982, 25, 143-148.	1.6	66
183	Monopoleâ€"flux-tube repulsion in strong coupling. Physical Review D, 1982, 26, 3685-3688.	1.6	0
184	Boundedness from below of the SU(5) Higgs potential. Physical Review D, 1982, 26, 3679-3684.	1.6	1
185	Families from spinors. Physical Review D, 1982, 25, 553-565.	1.6	177
186	Remarks on Dyons. Physical Review Letters, 1982, 48, 1146-1149.	2.9	168
187	Axions and Family Symmetry Breaking. Physical Review Letters, 1982, 49, 1549-1552.	2.9	397
188	Quantum Mechanics of Fractional-Spin Particles. Physical Review Letters, 1982, 49, 957-959.	2.9	1,309
189	Magnetic Flux, Angular Momentum, and Statistics. Physical Review Letters, 1982, 48, 1144-1146.	2.9	1,012
190	Reheating an Inflationary Universe. Physical Review Letters, 1982, 48, 1437-1440.	2.9	462
191	Is our vacuum metastable?. Nature, 1982, 298, 633-634.	13.7	56
192	Supersymmetry and the scale of unification. Physical Review D, 1981, 24, 1681-1683.	1.6	706
193	Fractional Quantum Numbers on Solitons. Physical Review Letters, 1981, 47, 986-989.	2.9	698
194	Constraints on heavy neutrinos. Nature, 1981, 289, 777-778.	13.7	28
195	The Cosmic Asymmetry between Matter and Antimatter. Scientific American, 1980, 243, 82-90.	1.0	18
196	Operator Analysis of Nucleon Decay. Physical Review Letters, 1979, 43, 1571-1573.	2.9	447
197	SU(3) Predictions for Charmed-Meson Decays. Physical Review Letters, 1979, 43, 816-817.	2.9	51
198	Interference Effects in Charmed-Meson Decays. Physical Review Letters, 1979, 43, 1059-1062.	2.9	3

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199	Light-quark masses and isospin violation. Physical Review D, 1979, 19, 2188-2196.	1.6	160
200	Matter-antimatter accounting, thermodynamics, and black-hole radiation. Physical Review D, 1979, 19, 1036-1045.	1.6	221
201	Effect of instantons on the heavy-quark potential. Physical Review D, 1978, 18, 4684-4692.	1.6	58
202	Possible new species of quarks and hadrons. Physical Review D, 1977, 16, 860-868.	1.6	32
203	Rare muon decays, heavy leptons, andCPviolation. Physical Review D, 1977, 16, 152-157.	1.6	33
204	Orientation of the weak interaction with respect to the strong interaction. Physical Review D, 1977, 15, 3701-3710.	1.6	1
205	Rare Muon Decays, Natural Lepton Models, and Doubly Charged Leptons. Physical Review Letters, 1977, 38, 531-533.	2.9	69
206	Î”I=12rule and right-handed currents: Heavy-quark expansion and limitation on Zweig's rule. Physical Review D, 1977, 15, 2660-2667.	1.6	19
207	Decays of Heavy Vector Mesons into Higgs Particles. Physical Review Letters, 1977, 39, 1304-1306.	2.9	483
208	Asymptotically free gauge theories. II. Physical Review D, 1974, 9, 980-993.	1.6	532
209	Ultraviolet Behavior of Non-Abelian Gauge Theories. Physical Review Letters, 1973, 30, 1343-1346.	2.9	3,078
210	Asymptotically Free Gauge Theories. I. Physical Review D, 1973, 8, 3633-3652.	1.6	1,002
211	Enlightenment, knowledge, ignorance, temptation. , 0, , 43-54.		3
212	A model of anthropic reasoning: the dark to ordinary matter ratio. , 0, , 151-162.		4