Franco Strocchi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Some rigorous results on symmetry breakings in gauge QFT. SciPost Physics Proceedings, 2022, , .	0.4	Ο
2	Manifold topology, observables, and gauge group. Journal of Mathematical Physics, 2021, 62, 112102.	1.1	0
3	Corrections to Wigner–Eckart Relations by Spontaneous Symmetry Breaking. Symmetry, 2020, 12, 1120.	2.2	0
4	Generalized criteria of symmetry breaking. AÂstrategy for quantum time crystals. Annals of Physics, 2020, 415, 168097.	2.8	2
5	Spontaneous symmetry breaking. , 2019, , 1-23.		0
6	Breaking gauge symmetries. Higgs mechanism. , 2019, , 25-66.		0
7	Dynamics of Dollard asymptotic variables. Asymptotic fields in Coulomb scattering. Reviews in Mathematical Physics, 2016, 28, 1650001.	1.7	2
8	The Infrared Problem in QED: A Lesson from a Model with Coulomb Interaction and Realistic Photon Emission. Annales Henri Poincare, 2016, 17, 2699-2739.	1.7	6
9	Gauge Invariance and Symmetry Breaking by Topology and Energy Gap. Mathematics, 2015, 3, 984-1000.	2.2	1
10	A non-perturbative argument for the non-abelian Higgs mechanism. Annals of Physics, 2013, 336, 112-117.	2.8	4
11	The physical principles of quantum mechanics. A critical review. European Physical Journal Plus, 2012, 127, 1.	2.6	9
12	Chiral symmetry breaking and <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">altimg="si1.gif" display="inline" overflow="scroll"><mml:mrow><mml:mi>Î,</mml:mi></mml:mrow></mml:math> vacuum structure in QCD. Annals of Physics, 2009, 324, 2236-2254.	2.8	3
13	Classical and quantum mechanics from the universal Poisson-Rinehart algebra of a manifold. Reports on Mathematical Physics, 2009, 64, 33-48.	0.8	2
14	The Lie–Rinehart Universal Poisson Algebra of Classical and Quantum Mechanics. Letters in Mathematical Physics, 2008, 86, 135-150.	1.1	3
15	Localization and symmetries. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 3173-3187.	2.1	5
16	Quantum Mechanics on Manifolds and Topological Effects. Letters in Mathematical Physics, 2007, 82, 219-236.	1.1	8
17	Relativistic Quantum Mechanics and Field Theory. Foundations of Physics, 2004, 34, 501-527.	1.3	13
18	Charge density and electric charge in quantum electrodynamics. Journal of Mathematical Physics, 2003, 44, 5569.	1.1	12

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19	Mathematical structure of the temporal gauge in quantum electrodynamics. Journal of Mathematical Physics, 2003, 44, 5095-5107.	1.1	9
20	Quantum Delocalization of the Electric Charge. Annals of Physics, 2001, 290, 53-66.	2.8	15
21	The classical counterpart of the Goldstone theorem. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 267, 40-44.	2.1	4
22	Irreducible representations of the Heisenberg algebra in Krein spaces. Journal of Mathematical Physics, 1998, 39, 2969-2982.	1.1	18
23	Grassmanian and chiral anomaly. Journal of Geometry and Physics, 1997, 22, 219-244.	1.4	11
24	A Quantum Mechanical Gauge Model and a Possible Dynamical Solution of the StrongCPProblem. Annals of Physics, 1996, 250, 367-388.	2.8	9
25	Infrared singular fields and nonregular representations of canonical commutation relation algebras. Journal of Mathematical Physics, 1993, 34, 899-914.	1.1	35
26	Nonregular representations of CCR algebras and algebraic fermion bosonization. Reports on Mathematical Physics, 1993, 33, 7-19.	0.8	6
27	Quantum corrections to the Wigner crystal: A Hartree-Fock expansion. Physical Review B, 1993, 48, 5306-5314.	3.2	14
28	Infrared and vacuum structure in twoâ€dimensional models of local quantum field theory. II. Fermion bosonization. Journal of Mathematical Physics, 1992, 33, 777-790.	1.1	12
29	Infrared and vacuum structure in twoâ€dimensional local quantum field theory models. The massless scalar field. Journal of Mathematical Physics, 1990, 31, 1467-1477.	1.1	46
30	Effective non-symmetric Hamiltonians and Goldstone boson spectrum. Annals of Physics, 1988, 185, 241-269.	2.8	4
31	The Schwinger model revisited. Annals of Physics, 1988, 188, 217-238.	2.8	39
32	Euclidean formulation of quantum field theory without positivity. Communications in Mathematical Physics, 1988, 119, 529-541.	2.2	20
33	Krein structures for Wightman and Schwinger functions. Journal of Mathematical Physics, 1988, 29, 1231-1235.	1.1	9
34	Mathematical structures for longâ€range dynamics and symmetry breaking. Journal of Mathematical Physics, 1987, 28, 622-635.	1.1	49
35	Longâ€range dynamics and broken symmetries in gauge models. The Schwinger model. Journal of Mathematical Physics, 1987, 28, 1912-1919.	1.1	13
36	Long range dynamics and broken symmetries in gauge models. The Stïį½ckelberg-Kibble model. Communications in Mathematical Physics, 1987, 111, 593-612.	2.2	8

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37	Infrared problem in QED and electric charge renormalization. Annals of Physics, 1986, 168, 27-45.	2.8	6
38	Spontaneous breaking of the Galilei group and the plasmon energy gap. Annals of Physics, 1986, 170, 310-332.	2.8	13
39	Confinement of massless charged particles in QED4 and of charged particles in QED3. Annals of Physics, 1986, 172, 267-279.	2.8	10
40	Spontaneous symmetry breaking and energy gap generated by variables at infinity. Communications in Mathematical Physics, 1985, 99, 153-175.	2.2	32
41	Charged sectors and scattering states in quantum electrodynamics. Annals of Physics, 1979, 119, 241-284.	2.8	106
42	Local and covariant gauge quantum field theories. Cluster property, superselection rules, and the infrared problem. Physical Review D, 1978, 17, 2010-2021.	4.7	67
43	Neutral currents in gauge theories. Physical Review D, 1978, 18, 2062-2064.	4.7	8
44	Hilbert space sectors for solutions of non-linear relativistic field equations. Communications in Mathematical Physics, 1977, 53, 65-96.	2.2	13
45	Spontaneous symmetry breaking in local gauge quantum field theory; the Higgs mechanism. Communications in Mathematical Physics, 1977, 56, 57-78.	2.2	65
46	Wigner's theorem on symmetries in indefinite metric spaces. Communications in Mathematical Physics, 1975, 41, 289-299.	2.2	44
47	Local and covariant quantizations of linearized Einstein's equations. II. Journal of Mathematical Physics, 1975, 16, 2522-2526.	1.1	2
48	Some remarks on local operators in quantum electrodynamics. Communications in Mathematical Physics, 1974, 35, 25-38.	2.2	71
49	Proof of the charge superselection rule in local relativistic quantum field theory. Journal of Mathematical Physics, 1974, 15, 2198-2224.	1.1	299
50	Local and Covariant Quantization of Linearized Einstein's Equations. Journal of Mathematical Physics, 1972, 13, 1151-1163.	1.1	6
51	Extension of Jost and Schroer's Theorem to Quantum Electrodynamics. Physical Review D, 1972, 6, 1193-1195.	4.7	9
52	Spontaneous Breakings of Chiral Symmetries. II. Mass Relations and Particle Mixings. Physical Review D, 1972, 6, 301-318.	4.7	24
53	Precise Test of SU(2) Chiral Breaking. A Coleman-Glashow Formula for Pseudoscalar Mesons. Physical Review Letters, 1972, 29, 1702-1704.	7.8	17
54	Einstein's equations and locality. Communications in Mathematical Physics, 1972, 24, 289-302.	2.2	3

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55	Spontaneous Breakings of Chiral Symmetries. Physical Review D, 1970, 1, 1197-1203.	4.7	13
56	T-Violation Effects and Final-State Interactions. II. Photoproduction, Electroproduction, and Neutrino-Induced Production of a Single Pion. Physical Review D, 1970, 1, 191-199.	4.7	8
57	Gauge Problem in Quantum Field Theory. III. Quantization of Maxwell Equations and Weak Local Commutativity. Physical Review D, 1970, 2, 2334-2340.	4.7	27
58	Spontaneous Breakdown of Chiral su(3) ⊗ su(3) Symmetry. Physical Review Letters, 1969, 22, 497-499.	7.8	17
59	Gauge Problem in Quantum Field Theory. II. Difficulties of Combining Einstein Equations and Wightman Theory. Physical Review, 1968, 166, 1302-1307.	2.7	17
60	T-Violation Effects and Final-State Interactions. Physical Review, 1968, 174, 1957-1968.	2.7	9
61	TCPInvariance andK→2ï€Decays. Physical Review Letters, 1967, 19, 1456-1458.	7.8	3
62	Gauge Problem in Quantum Field Theory. Physical Review, 1967, 162, 1429-1438.	2.7	75
63	Complex Coordinates and Quantum Mechanics. Reviews of Modern Physics, 1966, 38, 36-40.	45.6	135
64	Possible Test ofT-Invariance Violation in Electromagnetic Interactions. Physical Review Letters, 1966, 16, 633-635.	7.8	3
65	Goldstone's Theorem and Approximate Symmetries in Strong Interactions. Physical Review Letters, 1966, 16, 822-824.	7.8	1
66	Mass Gap and Violation of Discrete Symmetries in Quantum Field Theory. Physical Review, 1966, 152, 1505-1507.	2.7	0
67	Gauge Independence and Path Independence. Physical Review, 1965, 139, B476-B482.	2.7	40