

Michael Creutz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8709995/publications.pdf>

Version: 2024-02-01

99
papers

5,563
citations

136950

32
h-index

76900

74
g-index

101
all docs

101
docs citations

101
times ranked

1942
citing authors

#	ARTICLE	IF	CITATIONS
1	QCD beyond diagrams. International Journal of Modern Physics A, 2021, 36, 2130012.	1.5	0
2	Four metrics. International Journal of Modern Physics D, 2020, 29, 2043005.	2.1	0
3	The Lattice and Quantized Yang-Mills Theory. , 2016, , .		0
4	The lattice and quantized Yang-Mills theory. Modern Physics Letters A, 2015, 30, 1530027.	1.2	0
5	Emergent spin. Annals of Physics, 2014, 342, 21-30.	2.8	10
6	Pion Masses in Two-Flavor QCD with \hat{I} Condensation. Physical Review Letters, 2014, 112, 141603.	7.8	10
7	Quark masses, the Dashen phase, and gauge field topology. Annals of Physics, 2013, 339, 560-569.	2.8	7
8	Supercomputers and Quantum Field Theory. Progress of Theoretical Physics Supplement, 2013, 85, 237-243.	0.1	0
9	Quark mass dependence of two-flavor QCD. Physical Review D, 2011, 83, .	4.7	6
10	Anomalies, gauge field topology, and the lattice. Annals of Physics, 2011, 326, 911-925.	2.8	7
11	Quark masses and strong CP violation. , 2011, , .		1
12	Index theorem and overlap formalism with naive and minimally doubled fermions. Journal of High Energy Physics, 2010, 2010, 1.	4.7	24
13	Anomalies and chiral symmetry in QCD. Annals of Physics, 2009, 324, 1573-1584.	2.8	8
14	The θ Hooft vertex revisited. Annals of Physics, 2008, 323, 2349-2365.	2.8	15
15	One flavor QCD. Annals of Physics, 2007, 322, 1518-1540.	2.8	19
16	Hidden symmetries in two dimensional field theory. Annals of Physics, 2006, 321, 2782-2792.	2.8	2
17	Spontaneous CP violation and quark mass ambiguities. AIP Conference Proceedings, 2005, , .	0.4	3
18	The invariant measure for SU(N). AIP Conference Proceedings, 2005, , .	0.4	0

#	ARTICLE	IF	CITATIONS
19	YANGâ€™S MILLS FIELDS AND THE LATTICE. , 2005, , 357-374.		3
20	Ambiguities in the Up-Quark Mass. Physical Review Letters, 2004, 92, 162003.	7.8	38
21	Spontaneous Violation of CP Symmetry in the Strong Interactions. Physical Review Letters, 2004, 92, 201601.	7.8	49
22	DIRECT SIMULATIONS OF SMALL MULTI-FERMION SYSTEMS. International Journal of Modern Physics C, 2003, 14, 1027-1040.	1.7	2
23	TOPOLOGY AND THE OVERLAP. , 2003, , .		0
24	Aspects of chiral symmetry and the lattice. Reviews of Modern Physics, 2001, 73, 119-150.	45.6	82
25	Lattice fields and extra dimensions. Computer Physics Communications, 2000, 127, 37-42.	7.5	1
26	Transfer Matrices and Lattice Fermions at Finite Density. Foundations of Physics, 2000, 30, 487-492.	1.3	16
27	End States, Ladder Compounds, and Domain-Wall Fermions. Physical Review Letters, 1999, 83, 2636-2639.	7.8	138
28	Evaluating Grassmann Integrals. Physical Review Letters, 1998, 81, 3555-3558.	7.8	11
29	Species Doubling and Chiral Lagrangians. Physical Review Letters, 1996, 76, 4671-4674.	7.8	6
30	How Computational Physics is Uniting Science and Revolutionizing Society. Computers in Physics, 1995, 9, 247.	0.5	0
31	Quark masses and chiral symmetry. Physical Review D, 1995, 52, 2951-2959.	4.7	60
32	Specific-heat exponent for the three-dimensional Ising model from a 24th-order high-temperature series. Physical Review B, 1994, 49, 12909-12914.	3.2	20
33	Surface states and chiral symmetry on the lattice. Physical Review D, 1994, 50, 2297-2308.	4.7	56
34	Series expansions without diagrams. Physical Review E, 1994, 49, 2445-2453.	2.1	12
35	Low-temperature expansions for Potts models. Physical Review B, 1993, 48, 6183-6191.	3.2	21
36	Low temperature expansion for the Ising model. Physical Review Letters, 1992, 69, 1841-1844.	7.8	52

#	ARTICLE	IF	CITATIONS
37	Counting world lines for many-fermion systems. Physical Review B, 1992, 45, 4650-4655.	3.2	8
38	Microcanonical cluster Monte Carlo simulation. Physical Review Letters, 1992, 69, 1002-1005.	7.8	29
39	ALGORITHMS FOR SIMULATING FERMIONS. Advanced Series on Directions in High Energy Physics, 1992, , 275-303.	0.7	1
40	Abelian sandpiles. Computers in Physics, 1991, 5, 198.	0.5	54
41	State counting and low-temperature series. Physical Review B, 1991, 43, 10659-10662.	3.2	34
42	Modified Wilson action and Z ₂ artifacts in SU(2) lattice gauge theory. Physical Review D, 1991, 44, 3918-3923.	4.7	9
43	Dynamics of Sand. MRS Bulletin, 1991, 16, 17-21.	3.5	7
44	Biased Monte Carlo algorithms on unitary groups. Physical Review D, 1989, 39, 689-692.	4.7	3
45	Self-organized criticality in the 'Game of Life". Nature, 1989, 342, 780-782.	27.8	325
46	Higher-order hybrid Monte Carlo algorithms. Physical Review Letters, 1989, 63, 9-12.	7.8	129
47	Global Monte Carlo algorithms for many-fermion systems. Physical Review D, 1988, 38, 1228-1238.	4.7	96
48	Species doubling and transfer matrices for fermionic fields. Physical Review D, 1987, 35, 1460-1467.	4.7	16
49	Overrelaxation and Monte Carlo simulation. Physical Review D, 1987, 36, 515-519.	4.7	323
50	FORTTRAN code for the three-dimensional Ising model. Computer Physics Communications, 1986, 39, 173-180.	7.5	8
51	Deterministic ising dynamics. Annals of Physics, 1986, 167, 62-72.	2.8	203
52	Computer investigations of the three-dimensional Ising model. Journal of Statistical Physics, 1986, 42, 823-832.	1.2	9
53	Vectorization of the three-dimensional ISING model program on the CDC cyber 205. Computer Physics Communications, 1986, 42, 191-196.	7.5	11
54	Supercomputers and Quantum Field Theory. Progress of Theoretical Physics Supplement, 1985, 85, 237-243.	0.1	0

#	ARTICLE	IF	CITATIONS
55	Monte Carlo study of SU(3) gauge theory on a 12^4 lattice. Physical Review D, 1984, 29, 1207-1212.	4.7	19
56	SO(3) scale parameter. Physical Review D, 1984, 30, 2678-2682.	4.7	1
57	A fast algorithm for investigations on the three-dimensional Ising model. Computer Physics Communications, 1984, 33, 361-366.	7.5	14
58	Implementation of the microcanonical Monte Carlo simulation algorithm for SU(N) lattice gauge theory calculations. Computer Physics Communications, 1983, 30, 255-257.	7.5	4
59	Monte Carlo computations in lattice gauge theories. Physics Reports, 1983, 95, 201-282.	25.6	256
60	Monte-Carlo simulation of pure U(N) and SU(N) lattice gauge theories with fundamental and adjoint couplings. Computer Physics Communications, 1983, 29, 97-108.	7.5	24
61	Microcanonical Monte Carlo Simulation. Physical Review Letters, 1983, 50, 1411-1414.	7.8	493
62	Phase transitions in U(N) lattice gauge theory in four dimensions. Physical Review D, 1982, 25, 610-613.	4.7	5
63	Numerical studies of Wilson loops in SU(3) gauge theory in four dimensions. Physical Review D, 1982, 26, 2166-2168.	4.7	43
64	Phase transition in SU(6) lattice gauge theory. Physical Review D, 1982, 25, 1724-1726.	4.7	16
65	Monte Carlo study of renormalization in lattice gauge theory. Physical Review D, 1981, 23, 1815-1823.	4.7	45
66	Variant actions and phase structure in lattice gauge theory. Physical Review D, 1981, 24, 3212-3217.	4.7	126
67	Phase Transition in SU(5) Lattice Gauge Theory. Physical Review Letters, 1981, 46, 1441-1443.	7.8	73
68	Confinement and Lattice Gauge Theory. Physica Scripta, 1981, 23, 973-977.	2.5	6
69	Ising gauge theory at negative temperatures and spin-glasses. Physical Review B, 1980, 22, 3370-3373.	3.2	32
70	Phase diagrams for coupled spin-gauge systems. Physical Review D, 1980, 21, 1006-1012.	4.7	44
71	Monte Carlo study of quantized SU(2) gauge theory. Physical Review D, 1980, 21, 2308-2315.	4.7	548
72	Asymptotic-Freedom Scales. Physical Review Letters, 1980, 45, 313-316.	7.8	359

#	ARTICLE	IF	CITATIONS
73	Phase diagram of $Z(N)$ and $U(1)$ gauge theories in three dimensions. <i>Physical Review D</i> , 1980, 21, 2892-2902.	4.7	69
74	Experiments with a Gauge-Invariant Ising System. <i>Physical Review Letters</i> , 1979, 42, 1390-1393.	7.8	318
75	Gauge fixing and canonical quantization. <i>Physical Review D</i> , 1979, 19, 531-539.	4.7	44
76	Quantum electrodynamics in the temporal gauge. <i>Annals of Physics</i> , 1979, 117, 471-483.	2.8	27
77	Monte Carlo study of Abelian lattice gauge theories. <i>Physical Review D</i> , 1979, 20, 1915-1922.	4.7	212
78	Confinement and the Critical Dimensionality of Space-Time. <i>Physical Review Letters</i> , 1979, 43, 553-556.	7.8	381
79	Feynman rules for lattice gauge theory. <i>Reviews of Modern Physics</i> , 1978, 50, 561-571.	45.6	29
80	On invariant integration over $SU(N)$. <i>Journal of Mathematical Physics</i> , 1978, 19, 2043.	1.1	104
81	Higgs mechanism in the temporal gauge. <i>Physical Review D</i> , 1978, 17, 2619-2623.	4.7	4
82	Topological tunneling and Goldstone gluons. <i>Physical Review D</i> , 1977, 16, 2978-2990.	4.7	14
83	Gauge fixing, the transfer matrix, and confinement on a lattice. <i>Physical Review D</i> , 1977, 15, 1128-1136.	4.7	130
84	Quantum fluctuations and the bag model. <i>Physical Review D</i> , 1976, 13, 3432-3439.	4.7	4
85	Quark bags and local field theory. II. Confinement of Fermi and vector fields. <i>Physical Review D</i> , 1975, 12, 443-447.	4.7	51
86	Quantum mechanics of extended objects in relativistic field theory. <i>Physical Review D</i> , 1975, 12, 3126-3144.	4.7	41
87	Pomeron cuts and inclusive reactions. <i>Physical Review D</i> , 1974, 9, 684-696.	4.7	1
88	Gell-Mann-Low equation and on-mass-shell amplitudes. <i>Physical Review D</i> , 1974, 10, 3749-3753.	4.7	14
89	Higgs mechanism and quark confinement. <i>Physical Review D</i> , 1974, 10, 2696-2699.	4.7	21
90	Regge-Cut Discontinuities and Elastic Unitarity. <i>Physical Review Letters</i> , 1973, 30, 343-345.	7.8	15

#	ARTICLE	IF	CITATIONS
91	Comment on "Are There Fixed Singularities in T1?". Physical Review D, 1973, 7, 1539-1540.	4.7	5
92	Rigorous Bounds on Coupling Constants in Two-Dimensional Field Theories. Physical Review D, 1972, 6, 2763-2765.	4.7	11
93	Equal-Time Commutators of the Electromagnetic Current and Its Time Derivatives. Physical Review D, 1972, 5, 1937-1945.	4.7	3
94	Positivity, Subtractions, and the Moduli of Scattering Amplitudes. Physical Review D, 1972, 6, 3533-3537.	4.7	2
95	Way to Test Causality in the π -Meson System. Physical Review D, 1972, 5, 1139-1143.	4.7	0
96	Low-Energy Theorems and High-Energy Behavior. Physical Review D, 1972, 6, 2483-2487.	4.7	0
97	Vanishing Longitudinal Cross Sections and Operator Schwinger Terms. Physical Review D, 1972, 5, 3269-3272.	4.7	2
98	Remarks on the Validity of the Cottingham Formula for Electromagnetic Mass Shifts. Physical Review D, 1971, 4, 2984-2988.	4.7	3
99	Noncausal Dispersion Relations and a Fundamental Length. Physical Review D, 1970, 2, 2359-2362.	4.7	2