

David B Kaplan

List of Publications by Year in descending order

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68
papers

9,682
citations

61984

43
h-index

95266

68
g-index

68
all docs

68
docs citations

68
times ranked

5029
citing authors

#	ARTICLE	IF	CITATIONS
1	Index Theorems, Generalized Hall Currents, and Topology for Gapless Defect Fermions. <i>Physical Review Letters</i> , 2022, 128, .	7.8	4
2	Convergence of nuclear effective field theory with perturbative pions. <i>Physical Review C</i> , 2020, 102, .	2.9	15
3	Gauss's law, duality, and the Hamiltonian formulation of U(1) lattice gauge theory. <i>Physical Review D</i> , 2020, 102, .	4.7	44
4	Fractional Quantum Hall Effect in a Relativistic Field Theory. <i>Physical Review Letters</i> , 2020, 124, 131601.	7.8	6
5	Entanglement Suppression and Emergent Symmetries of Strong Interactions. <i>Physical Review Letters</i> , 2019, 122, 102001.	7.8	59
6	Energy conservation and the chiral magnetic effect. <i>Physical Review D</i> , 2017, 96, .	4.7	20
7	Chiral solution to the Ginsparg-Wilson equation. <i>Physical Review D</i> , 2016, 94, .	4.7	14
8	Nonperturbative Regulator for Chiral Gauge Theories?. <i>Physical Review Letters</i> , 2016, 116, 211602.	7.8	26
9	Role of the electron mass in damping chiral plasma instability in Supernovae and neutron stars. <i>Physical Review D</i> , 2015, 91, .	4.7	54
10	Lattice Monte Carlo calculations for unitary fermions in a finite box. <i>Physical Review A</i> , 2013, 87, .	2.5	43
11	Little flavor: A model of weak-scale flavor physics. <i>Physical Review D</i> , 2013, 87, .	4.7	4
12	Sign problems, noise, and chiral symmetry breaking in a QCD-like theory. <i>Physical Review D</i> , 2013, 87, .	4.7	17
13	Elucidating the sign problem through noise distributions. <i>Journal of Physics: Conference Series</i> , 2013, 432, 012032.	0.4	7
14	Spacetime as a Topological Insulator: Mechanism for the Origin of the Fermion Generations. <i>Physical Review Letters</i> , 2012, 108, 181807.	7.8	30
15	New Field-Theoretic Method for the Virial Expansion. <i>Physical Review Letters</i> , 2011, 107, 030601.	7.8	47
16	Lattice Monte Carlo calculations for unitary fermions in a harmonic trap. <i>Physical Review A</i> , 2011, 84, .	2.5	36
17	Noise, Sign Problems, and Statistics. <i>Physical Review Letters</i> , 2011, 107, 201601.	7.8	39
18	Perturbative nuclear physics. <i>Physical Review C</i> , 2009, 80, .	2.9	48

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19	Exact lattice supersymmetry. Physics Reports, 2009, 484, 71-130.	25.6	131
20	Emergence of symmetry in homooligomeric biological assemblies. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16148-16152.	7.1	153
21	Lattice formulation of (2,2) supersymmetric gauge theories with matter fields. Journal of High Energy Physics, 2006, 2006, 076-076.	4.7	34
22	A euclidean lattice construction of supersymmetric Yang-Mills theories with sixteen supercharges. Journal of High Energy Physics, 2005, 2005, 042-042.	4.7	119
23	Lattice Theory for Low Energy Fermions at Nonzero Chemical Potential. Physical Review Letters, 2004, 92, 257002.	7.8	62
24	Deconstructing (2,0) and Little String Theories. Journal of High Energy Physics, 2003, 2003, 083-083.	4.7	107
25	Supersymmetry on a spatial lattice. Journal of High Energy Physics, 2003, 2003, 037-037.	4.7	125
26	Supersymmetry on a euclidean spacetime lattice 1. A target theory with four supercharges. Journal of High Energy Physics, 2003, 2003, 024-024.	4.7	134
27	Supersymmetry on a euclidean spacetime lattice 2. Target theories with eight supercharges. Journal of High Energy Physics, 2003, 2003, 031-031.	4.7	106
28	Charged and Superconducting Vortices in Dense Quark Matter. Physical Review Letters, 2002, 88, 132302.	7.8	27
29	Novel phases and transitions in color flavor locked matter. Physical Review D, 2002, 65, .	4.7	131
30	Effective field theory for nuclear physics. Nuclear Physics A, 2000, 663-664, 155c-164c.	1.5	2
31	Couplings of a light dilaton and violations of the equivalence principle. Journal of High Energy Physics, 2000, 2000, 037-037.	4.7	69
32	Long and short of nuclear effective field theory expansions. Physical Review C, 1999, 60, .	2.9	24
33	Perturbative calculation of the electromagnetic form factors of the deuteron. Physical Review C, 1999, 59, 617-629.	2.9	121
34	An effective field theory calculation of the parity violating asymmetry in. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 449, 1-5.	4.1	48
35	Effective Field Theory, Black Holes, and the Cosmological Constant. Physical Review Letters, 1999, 82, 4971-4974.	7.8	1,106
36	A new expansion for nucleon-nucleon interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 424, 390-396.	4.1	638

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37	Two-nucleon systems from effective field theory. Nuclear Physics B, 1998, 534, 329-355.	2.5	566
38	B-Factory Physics from Effective Supersymmetry. Physical Review Letters, 1997, 78, 2300-2303.	7.8	84
39	Flavor from strongly coupled supersymmetry. Physical Review D, 1997, 56, 7193-7206.	4.7	15
40	Nucleon-nucleon potential in the $1/N_c$ expansion. Physical Review C, 1997, 56, 76-83.	2.9	110
41	More effective field theory for non-relativistic scattering. Nuclear Physics B, 1997, 494, 471-483.	2.5	188
42	Counting 4π 's in strongly coupled supersymmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 412, 301-308.	4.1	155
43	Nucleon-nucleon scattering from effective field theory. Nuclear Physics B, 1996, 478, 629-659.	2.5	287
44	The spin-flavor dependence of nuclear forces from large-N QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 365, 244-251.	4.1	112
45	Domain wall fermions and the $\hat{1}$ -invariant. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 368, 44-52.	4.1	34
46	Flavor unification and discrete non-Abelian symmetries. Physical Review D, 1994, 49, 3741-3750.	4.7	111
47	Cosmological implications of dynamical supersymmetry breaking. Physical Review D, 1994, 49, 779-787.	4.7	449
48	Chern-Simons currents and chiral fermions on the lattice. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 301, 219-223.	4.1	143
49	An analysis of parity-violating pion-nucleon couplings. Nuclear Physics A, 1993, 556, 653-671.	1.5	86
50	Chiral fermions on the lattice. Nuclear Physics, Section B, Proceedings Supplements, 1993, 30, 597-600.	0.4	82
51	Is CP a gauge symmetry?. Nuclear Physics B, 1993, 391, 515-530.	2.5	82
52	Single explanation for both baryon and dark matter densities. Physical Review Letters, 1992, 68, 741-743.	7.8	280
53	A method for simulating chiral fermions on the lattice. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 288, 342-347.	4.1	952
54	Strong evidence for a new strange matrix element. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 275, 137-143.	4.1	5

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55	Qualitons. Nuclear Physics B, 1991, 351, 137-160.	2.5	25
56	Baryogenesis at the weak phase transition. Nuclear Physics B, 1991, 349, 727-742.	2.5	227
57	Constituent quarks as collective excitations of QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 235, 163-169.	4.1	30
58	Weak scale baryogenesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 245, 561-564.	4.1	191
59	The role of a massive strange quark in the Large-N Skyrme model. Nuclear Physics B, 1990, 335, 45-66.	2.5	57
60	Kaon condensation in heavy ion collisions. Nuclear Physics A, 1988, 479, 285-290.	1.5	12
61	Strange matrix elements in the proton from neutral-current experiments. Nuclear Physics B, 1988, 310, 527-547.	2.5	345
62	Spontaneous baryogenesis. Nuclear Physics B, 1988, 308, 913-928.	2.5	154
63	Strange condensate realignment in relativistic heavy ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 192, 193-197.	4.1	232
64	Thermodynamic generation of the baryon asymmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 199, 251-258.	4.1	243
65	Current-Mass Ratios of the Light Quarks. Physical Review Letters, 1986, 56, 2004-2007.	7.8	237
66	Manifesting the invisible axion at low energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 169, 73-78.	4.1	242
67	Opening the axion window. Nuclear Physics B, 1985, 260, 215-226.	2.5	263
68	Dynamical generation of supersymmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 136, 162-164.	4.1	33