

# David B Kaplan

## List of Publications by Year in descending order

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68  
papers

9,682  
citations

61857

43  
h-index

95083

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. Physical Review Letters, 2022, 128, .	2.9	4
2	Convergence of nuclear effective field theory with perturbative pions. Physical Review C, 2020, 102, .	1.1	15
3	Gauss's law, duality, and the Hamiltonian formulation of U(1) lattice gauge theory. Physical Review D, 2020, 102, .	1.6	44
4	Fractional Quantum Hall Effect in a Relativistic Field Theory. Physical Review Letters, 2020, 124, 131601.	2.9	6
5	Entanglement Suppression and Emergent Symmetries of Strong Interactions. Physical Review Letters, 2019, 122, 102001.	2.9	59
6	Energy conservation and the chiral magnetic effect. Physical Review D, 2017, 96, .	1.6	20
7	Chiral solution to the Ginsparg-Wilson equation. Physical Review D, 2016, 94, .	1.6	14
8	Nonperturbative Regulator for Chiral Gauge Theories?. Physical Review Letters, 2016, 116, 211602.	2.9	26
9	Role of the electron mass in damping chiral plasma instability in Supernovae and neutron stars. Physical Review D, 2015, 91, .	1.6	54
10	Lattice Monte Carlo calculations for unitary fermions in a finite box. Physical Review A, 2013, 87, .	1.0	43
11	Little flavor: A model of weak-scale flavor physics. Physical Review D, 2013, 87, .	1.6	4
12	Sign problems, noise, and chiral symmetry breaking in a QCD-like theory. Physical Review D, 2013, 87, .	1.6	17
13	Elucidating the sign problem through noise distributions. Journal of Physics: Conference Series, 2013, 432, 012032.	0.3	7
14	Spacetime as a Topological Insulator: Mechanism for the Origin of the Fermion Generations. Physical Review Letters, 2012, 108, 181807.	2.9	30
15	New Field-Theoretic Method for the Virial Expansion. Physical Review Letters, 2011, 107, 030601.	2.9	47
16	Lattice Monte Carlo calculations for unitary fermions in a harmonic trap. Physical Review A, 2011, 84, .	1.0	36
17	Noise, Sign Problems, and Statistics. Physical Review Letters, 2011, 107, 201601.	2.9	39
18	Perturbative nuclear physics. Physical Review C, 2009, 80, .	1.1	48

#	ARTICLE	IF	CITATIONS
19	Exact lattice supersymmetry. <i>Physics Reports</i> , 2009, 484, 71-130.	10.3	131
20	Emergence of symmetry in homooligomeric biological assemblies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16148-16152.	3.3	153
21	Lattice formulation of (2,2) supersymmetric gauge theories with matter fields. <i>Journal of High Energy Physics</i> , 2006, 2006, 076-076.	1.6	34
22	A euclidean lattice construction of supersymmetric Yang-Mills theories with sixteen supercharges. <i>Journal of High Energy Physics</i> , 2005, 2005, 042-042.	1.6	119
23	Lattice Theory for Low Energy Fermions at Nonzero Chemical Potential. <i>Physical Review Letters</i> , 2004, 92, 257002.	2.9	62
24	Deconstructing (2,0) and Little String Theories. <i>Journal of High Energy Physics</i> , 2003, 2003, 083-083.	1.6	107
25	Supersymmetry on a spatial lattice. <i>Journal of High Energy Physics</i> , 2003, 2003, 037-037.	1.6	125
26	Supersymmetry on a euclidean spacetime lattice 1. A target theory with four supercharges. <i>Journal of High Energy Physics</i> , 2003, 2003, 024-024.	1.6	134
27	Supersymmetry on a euclidean spacetime lattice 2. Target theories with eight supercharges. <i>Journal of High Energy Physics</i> , 2003, 2003, 031-031.	1.6	106
28	Charged and Superconducting Vortices in Dense Quark Matter. <i>Physical Review Letters</i> , 2002, 88, 132302.	2.9	27
29	Novel phases and transitions in color flavor locked matter. <i>Physical Review D</i> , 2002, 65, .	1.6	131
30	Effective field theory for nuclear physics. <i>Nuclear Physics A</i> , 2000, 663-664, 155c-164c.	0.6	2
31	Couplings of a light dilaton and violations of the equivalence principle. <i>Journal of High Energy Physics</i> , 2000, 2000, 037-037.	1.6	69
32	Long and short of nuclear effective field theory expansions. <i>Physical Review C</i> , 1999, 60, .	1.1	24
33	Perturbative calculation of the electromagnetic form factors of the deuteron. <i>Physical Review C</i> , 1999, 59, 617-629.	1.1	121
34	An effective field theory calculation of the parity violating asymmetry in. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 449, 1-5.	1.5	48
35	Effective Field Theory, Black Holes, and the Cosmological Constant. <i>Physical Review Letters</i> , 1999, 82, 4971-4974.	2.9	1,106
36	A new expansion for nucleon-nucleon interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 424, 390-396.	1.5	638

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37	Two-nucleon systems from effective field theory. Nuclear Physics B, 1998, 534, 329-355.	0.9	566
38	B-Factor Physics from Effective Supersymmetry. Physical Review Letters, 1997, 78, 2300-2303.	2.9	84
39	Flavor from strongly coupled supersymmetry. Physical Review D, 1997, 56, 7193-7206.	1.6	15
40	Nucleon-nucleon potential in the $1/N_c$ expansion. Physical Review C, 1997, 56, 76-83.	1.1	110
41	More effective field theory for non-relativistic scattering. Nuclear Physics B, 1997, 494, 471-483.	0.9	188
42	Counting $4i\epsilon$ 's in strongly coupled supersymmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 412, 301-308.	1.5	155
43	Nucleon-nucleon scattering from effective field theory. Nuclear Physics B, 1996, 478, 629-659.	0.9	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.	1.5	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.	1.5	34
46	Flavor unification and discrete non-Abelian symmetries. Physical Review D, 1994, 49, 3741-3750.	1.6	111
47	Cosmological implications of dynamical supersymmetry breaking. Physical Review D, 1994, 49, 779-787.	1.6	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.	1.5	143
49	An analysis of parity-violating pion-nucleon couplings. Nuclear Physics A, 1993, 556, 653-671.	0.6	86
50	Chiral fermions on the lattice. Nuclear Physics, Section B, Proceedings Supplements, 1993, 30, 597-600.	0.5	82
51	Is CP a gauge symmetry?. Nuclear Physics B, 1993, 391, 515-530.	0.9	82
52	Single explanation for both baryon and dark matter densities. Physical Review Letters, 1992, 68, 741-743.	2.9	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.	1.5	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.	1.5	5

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55	Qualitons. Nuclear Physics B, 1991, 351, 137-160.	0.9	25
56	Baryogenesis at the weal phase transition. Nuclear Physics B, 1991, 349, 727-742.	0.9	227
57	Constituent quarks as collective excitations of QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 235, 163-169.	1.5	30
58	Weak scale baryogenesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 245, 561-564.	1.5	191
59	The role of a massive strange quark in the Large-N Skyrme model. Nuclear Physics B, 1990, 335, 45-66.	0.9	57
60	Kaon condensation in heavy ion collisions. Nuclear Physics A, 1988, 479, 285-290.	0.6	12
61	Strange matrix elements in the proton from neutral-current experiments. Nuclear Physics B, 1988, 310, 527-547.	0.9	345
62	Spontaneous baryogenesis. Nuclear Physics B, 1988, 308, 913-928.	0.9	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.	1.5	232
64	Thermodynamic generation of the baryon asymmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 199, 251-258.	1.5	243
65	Current-Mass Ratios of the Light Quarks. Physical Review Letters, 1986, 56, 2004-2007.	2.9	237
66	Manifesting the invisible axion at low energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 169, 73-78.	1.5	242
67	Opening the axion window. Nuclear Physics B, 1985, 260, 215-226.	0.9	263
68	Dynamical generation of supersymmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 136, 162-164.	1.5	33