Thomas D Cohen

List of Publications by Year
in descending order

118	3,185	147801	168389
papers	citations	31	53
		h-index	g-index

118	118	118	1206
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quark and gluon condensates in nuclear matter. Physical Review C, 1992, 45, 1881-1893.	2.9	283
2	Functional Integrals for QCD at Nonzero Chemical Potential and Zero Density. Physical Review Letters, 2003, 91, 222001.	7.8	153
3	From QCD sum rules to relativistic nuclear physics. Physical Review Letters, 1991, 67, 961-964.	7.8	138
4	ppâ†'ppπ€0reaction near threshold: A chiral power counting approach. Physical Review C, 1996, 53, 2661-2673.	2.9	117
5	How short is too short? Constraining zero-range interactions in nucleon-nucleon scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 390, 7-12.	4.1	112
6	Chiral condensate in a constant electromagnetic field. Physical Review C, 2007, 76, .	2.9	103
7	Nonperturbative Regularization and Renormalization: Simple Examples from Nonrelativistic Quantum Mechanics. Annals of Physics, 1998, 263, 255-275.	2.8	102
8	QCD sum rules for nucleons in nuclear matter. Physical Review C, 1992, 46, 1507-1527.	2.9	87
9	Semiclassical projection of hedgehog models with quarks. Physical Review D, 1986, 34, 3472-3483.	4.7	84
10	QCD sum rules for nucleons in nuclear matter II. Physical Review C, 1993, 47, 2882-2900.	2.9	84
11	Is There a "Most Perfect Fluid"Consistent with Quantum Field Theory?. Physical Review Letters, 2007, 99, 021602.	7.8	73
12	QCD inequalities, the high temperature phase of QCD, and U(1)Asymmetry. Physical Review D, 1996, 54, R1867-R1870.	4.7	71
13	QCD sum rules for nucleons in nuclear matter III. Physical Review C, 1994, 49, 464-477.	2.9	66
14	Low energy theorems for nucleon-nucleon scattering. Physical Review C, 1999, 59, 13-20.	2.9	66
15	Chiral multiplets versus parity doublets in highly excited baryons. Physical Review D, 2001, 65, .	4.7	66
16	DOES ONE OBSERVE CHIRAL SYMMETRY RESTORATION IN BARYON SPECTRUM?. International Journal of Modern Physics A, 2002, 17, 1327-1353.	1.5	65
17	Chiral soliton models, large Nc consistency and the Î˜+ exoticÂbaryon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 581, 175-181.	4.1	62
18	New Relations for Excited Baryons in Large-NcQCD. Physical Review Letters, 2003, 91, 012001.	7.8	57

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19	The role of the Î" isobar in chiral perturbation theory and hedgehog soliton models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 292, 5-9.	4.1	53
20	Excited baryons in largeNcQCD reexamined: The resonance picture versus single-quark excitations. Physical Review D, 2003, 67, .	4.7	48
21	Regularization, renormalization, and range: The nucleon-nucleon interaction from effective field theory. Physical Review C, 1997, 55, 67-72.	2.9	44
22	Chiral multiplets of hadron currents. Physical Review D, 1997, 55, 6870-6876.	4.7	42
23	Just how strange? Loops, poles and the strangeness radius of the nucleon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 316, 1-6.	4.1	40
24	Testing low energy theorems in nucleon-nucleon scattering. Physical Review C, 1999, 59, 3047-3051.	2.9	39
25	Strange vector form factors of the nucleon. Physical Review C, 1994, 50, 3108-3121.	2.9	38
26	The spin content of the proton. The large N and chiral limits revisited. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 230, 129-134.	4.1	33
27	Chiral and large-Nclimits of quantum chromodynamics and models of the baryon. Reviews of Modern Physics, 1996, 68, 599-608.	45.6	33
28	Boson mappings for schematic nuclear models with the symmetry of SO(5). Annals of Physics, 1982, 141, 382-410.	2.8	32
29	An effective field theory for coupled-channel scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 588, 57-66.	4.1	32
30	Model-independent bounds on R(J/Î). Journal of High Energy Physics, 2018, 2018, 1.	4.7	32
31	Chiral corrections to lattice calculations of charge radii. Physical Review D, 1993, 47, 2147-2150.	4.7	31
32	Compatibility of quark and resonant picture excited baryon multiplets in the1/Ncexpansion of QCD. Physical Review D, 2003, 68, .	4.7	31
33	Phase Separation and an Upper Bound for a Generalized Superfluid Gap for Cold Fermi Fluids in the Unitary Regime. Physical Review Letters, 2005, 95, 120403.	7.8	30
34	Symmetry and correlation functions in the high temperature phase of QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 388, 137-140.	4.1	29
35	The nucleon-delta splitting in the chiral quark-meson model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 167, 21-25.	4.1	27
36	On the existence of heavy pentaquarks: The largeNcand heavy quark limits and beyond. Physical Review D, 2005, 72, .	4.7	26

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37	Splitting of the neutron and proton electric polarizabilities in a hedgehog model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 283, 22-26.	4.1	25
38	Response of nucleons to external probes in hedgehog models. I. Electromagnetic polarizabilities. Physical Review D, 1993, 47, 299-312.	4.7	25
39	Baryon isovector electric properties and the large Nc and chiral limits. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 359, 23-28.	4.1	24
40	Systematic power counting in cutoff effective field theories for nucleon-nucleon interactions and the equivalence with PDS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 440, 233-238.	4.1	24
41	Î₊baryon in soliton models: LargeNcQCD and the validity of rigid-rotor quantization. Physical Review D, 2004, 70, .	4.7	24
42	Model Independent Tests of Skyrmions and Their Holographic Cousins. Physical Review Letters, 2009, 103, 022001.	7.8	24
43	Roper resonance in a color dielectric model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 187, 229-234.	4.1	23
44	Large-NcQCD, composite nucleons, and the Dirac sea. Physical Review Letters, 1989, 62, 3027-3030.	7.8	23
45	Resolving the large-Ncnuclear potential puzzle. Physical Review C, 2002, 66, .	2.9	22
46	Excited heavy baryons and their symmetries III: Phenomenology. Nuclear Physics A, 2001, 696, 638-666.	1.5	20
47	Nucleon–nucleon scattering observables in large-Nc QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 540, 227-232.	4.1	19
48	Phases of QCD with nonvanishing isospin density. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 516, 27-32.	4.1	18
49	Large-NcContinuum Reduction and the Thermodynamics of QCD. Physical Review Letters, 2004, 93, 201601.	7.8	18
50	Quantum algorithms for transport coefficients in gauge theories. Physical Review D, 2021, 104, .	4.7	18
51	Cranking in hedgehog models with vector mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 177, 141-146.	4.1	17
52	QCD Inequalities for the Nucleon Mass and the Free Energy of Baryonic Matter. Physical Review Letters, 2003, 91, 032002.	7.8	17
53	A SIMPLE TOY MODEL FOR EFFECTIVE RESTORATION OF CHIRAL SYMMETRY IN EXCITED HADRONS. Modern Physics Letters A, 2006, 21, 1939-1945.	1.2	17
54	Baryons and baryonic matter in the largeN_c heavy quark limits. Physical Review C, 2011, 84, .	2.9	17

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55	RPA method for quark-meson solitons. Nuclear Physics A, 1986, 458, 652-668.	1.5	16
56	Composite nucleons and the Dirac sea. Physical Review C, 1992, 45, 833-843.	2.9	16
57	Magnetization of the QCD vacuum at large fields. Physical Review C, 2009, 80, .	2.9	16
58	Yields of weakly bound light nuclei as a probe of the statistical hadronization model. Physical Review C, 2019, 100, .	2.9	16
59	Precision model-independent bounds from a global analysis of bâ†'câ„"Î½ form factors. Physical Review D, 2019, 100, .	4.7	16
60	Interplay of the chiral and largeNclimits inÏ€Nscattering. Physical Review D, 2006, 74, .	4.7	13
61	QCD sum rules vs. chiral perturbation theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 333, 27-32.	4.1	12
62	LargeNcQCD at nonzero chemical potential. Physical Review D, 2004, 70, .	4.7	12
63	Effective chiral restoration in the hadronic spectrum and QCD. Nuclear Physics A, 2006, 775, 89-101.	1.5	12
64	Mean-field theory and solitonic matter. Nuclear Physics A, 1989, 495, 545-563.	1.5	11
65	QCD and the Hagedorn spectrum. Journal of High Energy Physics, 2010, 2010, 1.	4.7	11
66	Symmetries of Excited Heavy Baryons in the Heavy-Quark and Large-NcLimit. Physical Review Letters, 2000, 84, 5474-5477.	7.8	10
67	Electromagnetic properties of the Î" in the large Nc and chiral limits. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 554, 28-32.	4.1	10
68	QCD strings and the thermodynamics of the metastable phase of QCD at large ‹mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	4.1	10
69	Tests of the standard model in Bâ†'Dâ„"Î½â„"¯ , Bâ†'D*â„"Î½â„"¯ and Bcâ†'J/Îˆâ„"Î½â„". Physical Review D, 2018, 98, .	4.7	10
70	The Hagedorn spectrum and large N c QCD in 2â€‰+â€‰1 and 3â€‰+â€‰1 dimensions. Journal of High Energy Physics, 2011, 2011, 1.	4.7	9
71	Self-consistency and boson mappings for deformed systems. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 158, 1-6.	4.1	8
72	Response of nucleons to external probes in hedgehog models. II. General formalism. Physical Review D, 1993, 47, 313-324.	4.7	8

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73	Model-independent predictions for low energy isoscalar heavy baryon observables in the combined heavy quark and large NcÂexpansion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 514, 346-354.	4.1	8
74	Excited heavy baryons and their symmetries I: Formalism. Nuclear Physics A, 2001, 688, 842-870.	1.5	8
75	Decoupling spurious baryon states in the $1/N$ expansion of QCD. Physical Review D, 2006, 74, .	4.7	8
76	Conference Discussion of the Nuclear Force. Few-Body Systems, 2011, 50, 31-44.	1.5	8
77	Vanishing condensates and anomalously light Goldstone modes in medium. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 342, 25-31.	4.1	7
78	Total nucleon-nucleon cross sections in large N_c QCD. Physical Review C, 2012, 85, .	2.9	7
79	Cutoff dependence of vacuum properties for nucleon-meson quantum field theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 211, 384-388.	4.1	6
80	Color-dielectric models from a lattice point of view. Physical Review D, 1989, 40, 3060-3065.	4.7	6
81	Nucleon electric polarizability in soliton models and the role of the seagull terms. Nuclear Physics A, 1996, 596, 599-610.	1.5	6
82	Relations among correlation functions in the high temperature phase of QCD with broken SU(3). Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 399, 263-266.	4.1	6
83	Heavy baryons in the Skyrme model: The role of highly anharmonic collective motion. Physical Review D, 2007, 75, .	4.7	6
84	Hadrons and Chiral Symmetry. Nuclear Physics, Section B, Proceedings Supplements, 2009, 195, 59-92.	0.4	6
85	Nucleon-nucleon scattering matrix and its N_c scaling. Physical Review C, 2013, 88, .	2.9	6
86	On the nature of an emergent symmetry in QCD with low-lying Dirac modes removed. Physical Review D, 2016, 93, .	4.7	6
87	Finite-density effective sigma meson mass in chiral models. Physical Review C, 1989, 39, 1032-1038.	2.9	5
88	Vacuum effects of non-nucleonic baryons in nuclear matter. Nuclear Physics A, 1990, 510, 671-688.	1.5	5
89	Pseudo-Goldstone modes in isospin-asymmetric nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 348, 12-18.	4.1	5
90	Excited heavy baryons and their symmetries II: Effective theory. Nuclear Physics A, 2001, 692, 521-545.	1.5	5

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91	Nucleon-nucleon scattering under spin-isospin reversal in large-NcQCD. Physical Review C, 2003, 68, .	2.9	5
92	Collective quantization of three-flavored Skyrmions reexamined. Physical Review D, 2005, 72, .	4.7	5
93	Skyrmion semiclassical quantization in the presence of an isospin chemical potential. Physical Review D, 2008, 78, .	4.7	5
94	Total Nucleon-Nucleon Cross Section at LargeNc. Physical Review Letters, 2012, 108, 262301.	7.8	5
95	A tale of two skyrmions: The nucleon's strange quark content in different large <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/...	4.1	4
96	Derivation and test of accuracy of an IBM-like hamiltonian for a model with SO(5) Ã— SO(5) symmetry. Nuclear Physics A, 1982, 390, 1-18.	1.5	3
97	Nature of the equivalence between gamma instability and rigid triaxiality for finite boson number. Physical Review C, 1988, 38, 1038-1045.	2.9	3
98	Exotic high-isospin baryons in the Skyrme model: Experimental observable or large-Nartifact?. Physical Review D, 1991, 43, 3089-3092.	4.7	3
99	Quantum coins, dice, and children: Probability and quantum statistics. American Journal of Physics, 2000, 68, 829-834.	0.7	3
100	Fishing Antihypernuclei Out of a Quark-Gluon Soup. Science, 2010, 328, 55-56.	12.6	3
101	Model-independent form factor relations at largeNc. Physical Review C, 2012, 85, .	2.9	3
102	Pion photoproduction in theÎ"(1232)region. Physical Review C, 1999, 60, .	2.9	2
103	Challenges facing holographic models of QCD. Indian Journal of Physics, 2009, 83, 681-691.	1.8	2
104	QCD FUNCTIONAL INTEGRALS FOR SYSTEMS WITH NONZERO CHEMICAL POTENTIAL. , 2005, , 101-120.		2
105	Study of a Bohr-Mottelson hamiltonian obtained from an IBM hamiltonian with the symmetry O(6). Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 125, 433-436.	4.1	1
106	Exact effective potential for a scalar source coupled to the sine-Gordon model: Test of effective potentials for composite nucleons. Physical Review C, 1990, 42, 970-980.	2.9	1
107	Inelastic versus total nucleon-nucleon cross section at largeNc. Physical Review C, 2014, 89, .	2.9	1
108	Structure of the pion and effective electroweak currents in soliton models of the nucleon. Physical Review D, 1993, 48, 2299-2303.	4.7	0

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109	NUCLEON-NUCLEON INTERACTIONS AND LARGE N_C CONSISTENCY. , 2002, , .		0
110	Testing the QCD string at large Nc from the thermodynamics of the hadronic phase. AIP Conference Proceedings, 2007, , .	0.4	0
111	Meson coupling constants at high mass and large. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 653, 224-229.	4.1	0
112	Large N[sub c] QCD and the Hagedorn Spectrum. , 2010, , .		0
113	CHIRAL SYMMETRY AND HOLOGRAPHIC MODELS OF THE BARYON: TESTING HOLOGRAPHIC MODELS OF THE BARYON WITH MODEL-INDEPENDENT RELATIONS. International Journal of Modern Physics A, 2010, 25, 464-469.	1.5	0
114	Chiral Symmetry and Holographic Models of the Baryon: Testing Holographic Models of the Baryon with Model-Independent Relations. , 2010, , .		0
115	Nucleon-antinucleon annihilation at large<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>N</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:... Physical Review C, 2015, 92, .	2.9	0
116	DO WE SEE CHIRAL SYMMETRY RESTORATION IN BARYON SPECTRUM?. , 2003, , .		0
117	LARGE N_C QCD AND MODELS OF EXOTIC BARYONS. , 2004, , .		0
118	WHY MASSLESS PIONS DO NOT PRECLUDE EFFECTIVE CHIRAL RESTORATION IN THE HADRON SPECTRUM. , 2007, , .		0