

Nathan Seiberg

List of Publications by Year in descending order

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158
papers

28,115
citations

3668

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158
docs citations

158
times ranked

8310
citing authors

#	ARTICLE	IF	CITATIONS
1	Global dipole symmetry, compact Lifshitz theory, tensor gauge theory, and fractons. Physical Review B, 2022, 106, .	1.1	41
2	Exotic symmetries, duality, and fractons in 2+1-dimensional quantum field theory. SciPost Physics, 2021, 10, .	1.5	89
3	Fractons with twisted boundary conditions and their symmetries. Physical Review B, 2021, 103, .	1.1	24
4	fcc lattice, checkerboards, fractons, and quantum field theory. Physical Review B, 2021, 103, .	1.1	20
5	Exotic \mathbb{Z}_N symmetries, duality, and fractons in 3+1-dimensional quantum field theory. SciPost Physics, 2021, 10, .	1.5	63
6	A modified Villain formulation of fractons and other exotic theories. Journal of Mathematical Physics, 2021, 62, .	0.5	37
7	Low-energy limit of some exotic lattice theories and UV/IR mixing. Physical Review B, 2021, 104, .	1.1	40
8	Anomalies in the space of coupling constants and their dynamical applications I. SciPost Physics, 2020, 8, .	1.5	99
9	Anomalies in the space of coupling constants and their dynamical applications II. SciPost Physics, 2020, 8, .	1.5	91
10	Field theories with a vector global symmetry. SciPost Physics, 2020, 8, .	1.5	92
11	Exotic $U(1)$ symmetries, duality, and fractons in 3+1-dimensional quantum field theory. SciPost Physics, 2020, 9, .	1.5	101
12	More exotic field theories in 3+1 dimensions. SciPost Physics, 2020, 9, .	1.5	47
13	Sigma models on flags. , 2019, 6, .		29
14	Comments on one-form global symmetries and their gauging in 3d and 4d. SciPost Physics, 2019, 6, .	1.5	105
15	Time-reversal breaking in QCD4, walls, and dualities in 2 + 1 dimensions. Journal of High Energy Physics, 2018, 2018, 1.	1.6	141
16	The Sum Over Topological Sectors and $\hat{1}$, in the 2+1-Dimensional \mathbb{CP}^1 sigma-Model. Communications in Mathematical Physics, 2018, 362, 167-183.	1.0	32
17	Anomalies of duality groups and extended conformal manifolds. Progress of Theoretical and Experimental Physics, 2018, 2018, .	1.8	48
18	A symmetry breaking scenario for QCD3. Journal of High Energy Physics, 2018, 2018, 1.	1.6	75

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19	Global Symmetries, Counterterms, and Duality in Chern-Simons Matter Theories with Orthogonal Gauge Groups. SciPost Physics, 2018, 4, .	1.5	77
20	Time-reversal symmetry, anomalies, and dualities in $(2+1)d$. SciPost Physics, 2018, 5, .	1.5	45
21	Phases Of Adjoint QCD ₃ And Dualities. SciPost Physics, 2018, 5, .	1.5	76
22	The long flow to freedom. Journal of High Energy Physics, 2017, 2017, 1.	1.6	25
23	Comments on global symmetries, anomalies, and duality in $(2 + 1)d$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	102
24	Chern-Simons-matter dualities with SO and USp gauge groups. Journal of High Energy Physics, 2017, 2017, 1.	1.6	91
25	Theta, time reversal and temperature. Journal of High Energy Physics, 2017, 2017, 1.	1.6	292
26	Shortening anomalies in supersymmetric theories. Journal of High Energy Physics, 2017, 2017, 1.	1.6	13
27	Gapped boundary phases of topological insulators via weak coupling. Progress of Theoretical and Experimental Physics, 2016, 2016, 12C101.	1.8	133
28	Level/rank duality and Chern-Simons-matter theories. Journal of High Energy Physics, 2016, 2016, 1.	1.6	172
29	A duality web in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ dimensions and condensed matter physics. Annals of Physics, 2016, 374, 395-433.	1.0	312
30	Anomalies, conformal manifolds, and spheres. Journal of High Energy Physics, 2016, 2016, 1.	1.6	81
31	Generalized global symmetries. Journal of High Energy Physics, 2015, 2015, 1.	1.6	755
32	Coupling a QFT to a TQFT and duality. Journal of High Energy Physics, 2014, 2014, 1.	1.6	272
33	3d dualities from 4d dualities. Journal of High Energy Physics, 2013, 2013, 1.	1.6	176
34	Aspects of 3d $\mathcal{N}=2$ Chern-Simons-Matter theories. Journal of High Energy Physics, 2013, 2013, 1.	1.6	98
35	Surface defects and resolvents. Journal of High Energy Physics, 2013, 2013, 1.	1.6	63
36	Reading between the lines of four-dimensional gauge theories. Journal of High Energy Physics, 2013, 2013, 1.	1.6	273

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37	3d dualities from 4d dualities for orthogonal groups. Journal of High Energy Physics, 2013, 2013, 1.	1.6	93
38	Exploring curved superspace. Journal of High Energy Physics, 2012, 2012, 1.	1.6	169
39	Comments on Chern-Simons contact terms in three dimensions. Journal of High Energy Physics, 2012, 2012, 1.	1.6	157
40	Contact terms, unitarity, and F-maximization in three-dimensional superconformal theories. Journal of High Energy Physics, 2012, 2012, 1.	1.6	172
41	Symmetries and strings in field theory and gravity. Physical Review D, 2011, 83, .	1.6	439
42	Comments on scaling limits of 4d $\mathcal{N} = 2$ theories. Journal of High Energy Physics, 2011, 2011, 1.	1.6	38
43	Charge lattices and consistency of 6D supergravity. Journal of High Energy Physics, 2011, 2011, 1.	1.6	60
44	Rigid supersymmetric theories in curved superspace. Journal of High Energy Physics, 2011, 2011, 1.	1.6	409
45	Supercurrents and brane currents in diverse dimensions. Journal of High Energy Physics, 2011, 2011, 1.	1.6	98
46	General messenger gauge mediation. Journal of High Energy Physics, 2010, 2010, 1.	1.6	44
47	Exactly marginal deformations and global symmetries. Journal of High Energy Physics, 2010, 2010, 1.	1.6	144
48	Comments on supercurrent multiplets, supersymmetric field theories and supergravity. Journal of High Energy Physics, 2010, 2010, 1.	1.6	147
49	Modifying the sum over topological sectors and constraints on supergravity. Journal of High Energy Physics, 2010, 2010, 1.	1.6	70
50	Comments on the Fayet-Iliopoulos term in field theory and supergravity. Journal of High Energy Physics, 2009, 2009, 007-007.	1.6	106
51	Exploring general gauge mediation. Journal of High Energy Physics, 2009, 2009, 016-016.	1.6	122
52	$\hat{1}/4$ and general gauge mediation. Journal of High Energy Physics, 2009, 2009, 072-072.	1.6	68
53	From linear SUSY to constrained superfields. Journal of High Energy Physics, 2009, 2009, 066-066.	1.6	240
54	General Gauge Mediation. Progress of Theoretical Physics Supplement, 2009, 177, 143-158.	0.2	275

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55	Lectures on Supersymmetry Breaking. Les Houches Summer School Proceedings, 2008, , 125-172.	0.2	1
56	Semi-direct gauge mediation. Journal of High Energy Physics, 2008, 2008, 004-004.	1.6	54
57	Emergent Spacetime. , 2007, , .		34
58	Lectures on supersymmetry breaking. Classical and Quantum Gravity, 2007, 24, S741-S772.	1.5	139
59	Supersymmetry breaking, R-symmetry breaking and metastable vacua. Journal of High Energy Physics, 2007, 2007, 017-017.	1.6	132
60	Comments on quantum effects in supergravity theories. Journal of High Energy Physics, 2007, 2007, 040-040.	1.6	27
61	Naturalized and simplified gauge mediation. Journal of High Energy Physics, 2007, 2007, 054-054.	1.6	60
62	S-duality in $N=2$ supersymmetric gauge theories. Journal of High Energy Physics, 2007, 2007, 088-088.	1.6	186
63	Higgs physics as a window beyond the MSSM. Physical Review D, 2007, 76, .	1.6	105
64	A note on (meta)stable brane configurations in MQCD. Journal of High Energy Physics, 2006, 2006, 088-088.	1.6	84
65	Dynamical SUSY breaking in meta-stable vacua. Journal of High Energy Physics, 2006, 2006, 021-021.	1.6	466
66	On the moduli space of the cascading $SU(M+p) \tilde{A}-SU(p)$ gauge theory. Journal of High Energy Physics, 2006, 2006, 155-155.	1.6	104
67	The runaway quiver. Journal of High Energy Physics, 2006, 2006, 031-031.	1.6	51
68	Long strings, anomaly cancellation, phase transitions, T-duality and locality in the 2d heterotic string. Journal of High Energy Physics, 2006, 2006, 057-057.	1.6	16
69	I-brane dynamics. Journal of High Energy Physics, 2006, 2006, 119-119.	1.6	41
70	On S-duality for non-simply-laced gauge groups. Journal of High Energy Physics, 2006, 2006, 043-043.	1.6	48
71	Minimal string theory. Comptes Rendus Physique, 2005, 6, 165-174.	0.3	29
72	Observations On The Moduli Space Of Two Dimensional String Theory. Journal of High Energy Physics, 2005, 2005, 010-010.	1.6	17

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73	Heterotic strings in two dimensions and new stringy phase transitions. Journal of High Energy Physics, 2005, 2005, 035-035.	1.6	16
74	Non-supersymmetric deformations of non-critical superstrings. Journal of High Energy Physics, 2005, 2005, 035-035.	1.6	15
75	Flux Vacua and Branes of the Minimal Superstring. Journal of High Energy Physics, 2005, 2005, 055-055.	1.6	25
76	Flux-vacua in two dimensional string theory. Journal of High Energy Physics, 2005, 2005, 077-077.	1.6	28
77	Exact vs. Semiclassical Target Space of the Minimal String. Journal of High Energy Physics, 2004, 2004, 020-020.	1.6	101
78	Annulus Amplitudes and ZZ Branes in Minimal String Theory. Journal of High Energy Physics, 2004, 2004, 026-026.	1.6	50
79	Branes, Rings and Matrix Models in Minimal (Super)string Theory. Journal of High Energy Physics, 2004, 2004, 021-021.	1.6	126
80	Noncommutative superspace, Script N = 1/2 supersymmetry, field theory and string theory. Journal of High Energy Physics, 2003, 2003, 010-010.	1.6	218
81	D-brane decay in two-dimensional string theory. Journal of High Energy Physics, 2003, 2003, 045-045.	1.6	181
82	Phases of Script N = 1 supersymmetric gauge theories. Journal of High Energy Physics, 2003, 2003, 042-042.	1.6	102
83	Chiral rings and phases of supersymmetric gauge theories. Journal of High Energy Physics, 2003, 2003, 018-018.	1.6	99
84	Superstrings in graviphoton background and Script N = 1/2+3/2 supersymmetry. Journal of High Energy Physics, 2003, 2003, 010-010.	1.6	110
85	Adding Fundamental Matter to "Chiral Rings and Anomalies in Supersymmetric Gauge Theory". Journal of High Energy Physics, 2003, 2003, 061-061.	1.6	55
86	Chiral Rings and Anomalies in Supersymmetric Gauge Theory. Journal of High Energy Physics, 2002, 2002, 071-071.	1.6	293
87	D-Brane Instantons and K-Theory Charges. Journal of High Energy Physics, 2001, 2001, 062-062.	1.6	134
88	D-brane charges in five-brane backgrounds. Journal of High Energy Physics, 2001, 2001, 005-005.	1.6	110
89	Geometrical interpretation of D-branes in gauged WZW models. Journal of High Energy Physics, 2001, 2001, 046-046.	1.6	167
90	OM theory in diverse dimensions. Journal of High Energy Physics, 2000, 2000, 008-008.	1.6	117

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91	Noncommutative perturbative dynamics. Journal of High Energy Physics, 2000, 2000, 020-020.	1.6	870
92	String theory, supersymmetry, unification, and all that. Reviews of Modern Physics, 1999, 71, S112-S120.	16.4	29
93	String theory and noncommutative geometry. Journal of High Energy Physics, 1999, 1999, 032-032.	1.6	3,259
94	Linear dilatons, NS5-branes and holography. Journal of High Energy Physics, 1998, 1998, 004-004.	1.6	275
95	The Coulomb branch of (4,4) supersymmetric field theories in two dimensions. Journal of High Energy Physics, 1997, 1997, 001-001.	1.6	56
96	Why Is the Matrix Model Correct?. Physical Review Letters, 1997, 79, 3577-3580.	2.9	315
97	Extremal transitions and five-dimensional supersymmetric field theories. Nuclear Physics B, 1997, 483, 229-247.	0.9	297
98	Branes, Calabi-Yau spaces, and toroidal compactification of the N = 1 six-dimensional E8 theory. Nuclear Physics B, 1997, 487, 93-127.	0.9	134
99	Branes from matrices. Nuclear Physics B, 1997, 490, 91-106.	0.9	171
100	Five-dimensional supersymmetric gauge theories and degenerations of Calabi-Yau spaces. Nuclear Physics B, 1997, 497, 56-100.	0.9	384
101	Non-trivial fixed points of the renormalization group in six dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 390, 169-171.	1.5	147
102	Matrix description of M-theory on T4 and T5. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 408, 105-110.	1.5	165
103	New theories in six dimensions and matrix description of M-theory on T5 and. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 408, 98-104.	1.5	302
104	Comments on higher derivative operators in some SUSY field theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 409, 239-244.	1.5	110
105	New = 2 superconformal field theories in four dimensions. Nuclear Physics B, 1996, 461, 71-84.	0.9	355
106	The moduli space of vacua of N = 2 SUSY QCD and duality in N = 1 SUSY QCD. Nuclear Physics B, 1996, 471, 159-194.	0.9	257
107	Anomalies, dualities, and topology of D = 6 N = 1 superstring vacua. Nuclear Physics B, 1996, 475, 115-148.	0.9	199
108	SUSY gauge dynamics and singularities of 4d N = 1 string vacua. Nuclear Physics B, 1996, 480, 170-184.	0.9	19

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109	Probing F-theory with branes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 387, 278-281.	1.5	188
110	IR dynamics on branes and space-time geometry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 384, 81-85.	1.5	123
111	Five dimensional SUSY field theories, non-trivial fixed points and string dynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 388, 753-760.	1.5	471
112	Exact results on the space of vacua of four-dimensional SUSY gauge theories. Physical Review D, 1994, 49, 6857-6863.	1.6	551
113	Mass matrix models: the sequel. Nuclear Physics B, 1994, 420, 468-504.	0.9	313
114	R-symmetry breaking versus supersymmetry breaking. Nuclear Physics B, 1994, 416, 46-62.	0.9	274
115	Should squarks be degenerate?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 309, 337-343.	1.5	328
116	(S)quark masses and non-Abelian horizontal symmetries. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 318, 169-173.	1.5	88
117	Naturalness versus supersymmetric non-renormalization theorems. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 318, 469-475.	1.5	328
118	Mass matrix models. Nuclear Physics B, 1993, 398, 319-342.	0.9	290
119	MICROSCOPIC AND MACROSCOPIC LOOPS IN NON-PERTURBATIVE TWO DIMENSIONAL GRAVITY. , 1993, , 780-787.		0
120	Note on background (in)dependence. Physical Review D, 1992, 45, 4581-4587.	1.6	29
121	FROM LOOPS TO FIELDS IN 2D QUANTUM GRAVITY. International Journal of Modern Physics A, 1992, 07, 2601-2634.	0.5	82
122	Number of degrees of freedom, density of states and tachyons in string theory and CFT. Nuclear Physics B, 1991, 358, 600-618.	0.9	173
123	From loops to states in two-dimensional quantum gravity. Nuclear Physics B, 1991, 362, 665-709.	0.9	200
124	Irrational axions as a solution of the strong CP problem in an eternal universe. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 273, 105-110.	1.5	35
125	Non-critical superstrings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 251, 67-72.	1.5	98
126	Flow and instability in quantum gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 244, 381-386.	1.5	95

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127	Microscopic and macroscopic loops in non-perturbative two dimensional gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 238, 279-286.	1.5	207
128	Notes on Quantum Liouville Theory and Quantum Gravity. Progress of Theoretical Physics Supplement, 1990, 102, 319-349.	0.2	400
129	Lectures on RCFT. NATO ASI Series Series B: Physics, 1990, , 263-361.	0.2	71
130	Taming the conformal zoo. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 220, 422-430.	1.5	429
131	Classical and quantum conformal field theory. Communications in Mathematical Physics, 1989, 123, 177-254.	1.0	890
132	Remarks on the canonical quantization of the Chern-Simons-Witten theory. Nuclear Physics B, 1989, 326, 108-134.	0.9	620
133	Naturality in conformal field theory. Nuclear Physics B, 1989, 313, 16-40.	0.9	201
134	Supersymmetry and non-perturbative beta functions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 206, 75-80.	1.5	219
135	Are $(0, 2)$ models string miracles?. Nuclear Physics B, 1988, 306, 137-159.	0.9	47
136	Observations on the moduli space of superconformal field theories. Nuclear Physics B, 1988, 303, 286-304.	0.9	252
137	Microscopic knowledge from macroscopic physics in string theory. Nuclear Physics B, 1988, 301, 357-380.	0.9	51
138	Contact interactions in superstring theory. Nuclear Physics B, 1988, 299, 559-586.	0.9	125
139	Is the Superstring Weakly Coupled?. Current Physics Sources and Comments, 1988, 1, 473-476.	0.0	0
140	F terms and D terms in string theory. Nuclear Physics B, 1987, 293, 253-265.	0.9	306
141	String theory and the strong CP problem. Nuclear Physics B, 1986, 273, 109-124.	0.9	83
142	Is the superstring weakly coupled?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 162, 299-302.	1.5	287
143	Couplings and scales in superstring models. Physical Review Letters, 1985, 55, 366-369.	2.9	181
144	Dynamical supersymmetry breaking in four dimensions and its phenomenological implications. Nuclear Physics B, 1985, 256, 557-599.	0.9	561

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145	Calculable Nonperturbative Supersymmetry Breaking. <i>Physical Review Letters</i> , 1984, 52, 1677-1680.	2.9	110
146	Topology in Strong Coupling. <i>Physical Review Letters</i> , 1984, 53, 637-640.	2.9	44
147	Scaling and β -Dependence in the $O(3)$ Model. <i>Physical Review Letters</i> , 1984, 53, 519-522.	2.9	24
148	Dynamical supersymmetry breaking in chiral theories. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984, 137, 187-192.	1.5	123
149	Analytic study of \hat{I} vacua on the lattice. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984, 148, 456-460.	1.5	13
150	Exponential hierarchy from dynamical supersymmetry breaking. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984, 140, 59-62.	1.5	59
151	Dynamical supersymmetry breaking in supersymmetric QCD. <i>Nuclear Physics B</i> , 1984, 241, 493-534.	0.9	618
152	The massless limit of supersymmetric QCD. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983, 125, 487-492.	1.5	93
153	Supersymmetry Breaking by Instantons. <i>Physical Review Letters</i> , 1983, 51, 1026-1029.	2.9	160
154	Method for numerical simulations of metastable states. <i>Physical Review D</i> , 1983, 27, 2980-2989.	1.6	23
155	The rishon model. <i>Nuclear Physics B</i> , 1982, 204, 141-167.	0.9	37
156	A dynamical theory for the rishon model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1981, 98, 269-273.	1.5	165
157	Dynamical symmetry breaking and composite quarks and leptons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1981, 100, 41-46.	1.5	31
158	Generation labels in composite models for quarks and leptons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1981, 102, 263-266.	1.5	53