

# Gates Sj Jr

## List of Publications by Year in descending order

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64  
papers

1,085  
citations

516710

16  
h-index

414414

32  
g-index

64  
all docs

64  
docs citations

64  
times ranked

499  
citing authors

#	ARTICLE	IF	CITATIONS
1	Superspace formulation of new non-linear sigma models. Nuclear Physics B, 1984, 238, 349-366.	2.5	185
2	CHERN-SIMONS THEORIES WITH SUPERSYMMETRIES IN THREE DIMENSIONS. International Journal of Modern Physics A, 1993, 08, 3371-3421.	1.5	114
3	Can the string scale be related to the cosmic baryon asymmetry?. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 018-018.	5.4	87
4	A theory of spinning particles for large N-extended supersymmetry (II). Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 369, 262-268.	4.1	45
5	N = 2 supersymmetry of higher superspin massless theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 412, 59-68.	4.1	43
6	4DN = 2 Supersymmetric Off-shell Sigma Models on the Cotangent Bundles of Kähler Manifolds. Fortschritte Der Physik, 2000, 48, 115-118.	4.4	42
7	Higher Spin Superfield Interactions with the Chiral Supermultiplet: Conserved Supercurrents and Cubic Vertices. Universe, 2018, 4, 6.	2.5	42
8	A call for more science in forensic science. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4541-4544.	7.1	39
9	Higher spin supersymmetry at the cosmological collider: sculpting SUSY ripples in the CMB. Journal of High Energy Physics, 2019, 2019, 1.	4.7	39
10	Seeking the loop quantum gravity Barbero-Immirzi parameter and field in 4D, N=1 supergravity. Physical Review D, 2009, 80, .	4.7	30
11	On 4D, N = 1 massless gauge superfields of arbitrary superhelicity. Journal of High Energy Physics, 2014, 2014, 1.	4.7	30
12	4D, N = 1 supersymmetry gravitinos (I). Journal of High Energy Physics, 2009, 2009, 008-008.	4.7	29
13	Conserved higher spin supercurrents for arbitrary spin massless supermultiplets and higher spin superfield cubic interactions. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
14	Progress on cubic interactions of arbitrary superspin supermultiplets via gauge invariant supercurrents. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134868.	4.1	21
15	Adinkra (in)equivalence from Coxeter group representations: A case study. International Journal of Modern Physics A, 2014, 29, 1450029.	1.5	17
16	Superfield continuous spin equations of motion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 445-450.	4.1	17
17	Unidexterous supergravity, Beltrami parametrization and BRST quantization. Nuclear Physics B, 1989, 320, 310-344.	2.5	16
18	Integer superspin supercurrents of matter supermultiplets. Journal of High Energy Physics, 2019, 2019, 1.	4.7	16

#	ARTICLE	IF	CITATIONS
19	A dynamical theory for linearized massive superspin 3/2. Journal of High Energy Physics, 2014, 2014, 1.	4.7	15
20	Interaction of supersymmetric nonlinear sigma models with external higher spin superfields via higher spin supercurrents. Journal of High Energy Physics, 2018, 2018, 1.	4.7	15
21	Adinkras and SUSY holography: Some explicit examples. International Journal of Modern Physics A, 2014, 29, 1450041.	1.5	13
22	A Lorentz covariant holonomy-induced "gadget" from minimal off-shell 4D, $N = 1$ supermultiplets. Journal of High Energy Physics, 2015, 2015, 1.	4.7	13
23	4D, $N = 1$ supersymmetry genomics (II). Journal of High Energy Physics, 2012, 2012, 1.	4.7	12
24	Adinkras, 0-branes, holonomy and the SUSY QFT/QM correspondence. International Journal of Modern Physics A, 2015, 30, 1550050.	1.5	12
25	From Diophantus to supergravity and massless higher spin multiplets. Journal of High Energy Physics, 2017, 2017, 1.	4.7	12
26	Quantum cosmology in the models of 2D and 4D dilatonic supergravity with WZ matter. Physical Review D, 1998, 58, .	4.7	10
27	Field Strengths of Linearized 5D, $N = 1$ Superfield Supergravity On a 3-Brane. Journal of High Energy Physics, 2005, 2005, 036-036.	4.7	10
28	4D, $N = 1$ supergravity genomics. Journal of High Energy Physics, 2013, 2013, 1.	4.7	10
29	Adinkra "color" confinement in exemplary off-shell constructions of 4D, $N = 2$ supersymmetry representations. Journal of High Energy Physics, 2014, 2014, 1.	4.7	9
30	On the four-dimensional holonomy of the 4D, $N = 1$ complex linear supermultiplet. International Journal of Modern Physics A, 2018, 33, 1850072.	1.5	8
31	Is it possible to embed a 4D, $N = 4$ supersymmetric vector multiplet within a completely off-shell adinkra hologram?. Journal of High Energy Physics, 2014, 2014, 1.	4.7	7
32	Superforms in five-dimensional, $N = 1$ superspace. Journal of High Energy Physics, 2015, 2015, 1.	4.7	7
33	Adinkras from ordered quartets of BC4 Coxeter group elements and regarding 1,358,954,496 matrix elements of the Gadget. Journal of High Energy Physics, 2017, 2017, 1.	4.7	7
34	Generating All 36,864 Four-Color Adinkras via Signed Permutations and Organizing into " and "Equivalence Classes. Symmetry, 2019, 11, 120.	2.2	7
35	Teleparallel superspace in eleven dimensions coupled to supermembranes. Physical Review D, 2001, 65, .	4.7	5
36	Dynamical Equations from a First-Order Perturbative Superspace Formulation of 10D, $N=1$ String-Corrected Supergravity. Journal of High Energy Physics, 2004, 2004, 047-047.	4.7	5

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37	Automorphism Properties and Classification of Adinkras. Advances in Mathematical Physics, 2015, 2015, 1-17.	0.8	5
38	Adinkra height yielding matrix numbers: Eigenvalue equivalence classes for minimal four-color adinkras. International Journal of Modern Physics A, 2019, 34, 1950085.	1.5	5
39	Hierarchy of supersymmetric higher spin connections. Physical Review D, 2020, 102, .	4.7	5
40	On 1D, $\mathcal{N} = 4$ supersymmetric SYK-type models. Part I. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
41	Reduction redux of adinkras. International Journal of Modern Physics A, 2014, 29, 1450070.	1.5	4
42	Think different: applying the old macintosh mantra to the computability of the SUSY auxiliary field problem. Journal of High Energy Physics, 2015, 2015, 1.	4.7	4
43	A proposal on culling & filtering a coxeter group for 4D, $\mathcal{N} = 1$ spacetime SUSY representations: revised. Journal of High Energy Physics, 2016, 2016, 1.	4.7	4
44	Adinkras from ordered quartets of $BC_4$ Coxeter group elements and regarding another Gadget's 1,358,954,496 matrix elements. International Journal of Modern Physics A, 2018, 33, 1850066.	1.5	4
45	A codex on linearized Nordström supergravity in eleven and ten dimensional superspaces. Journal of High Energy Physics, 2019, 2019, 1.	4.7	4
46	The * report 1. Classical and Quantum Gravity, 2000, 17, 2139-2148.	4.0	3
47	Superspace first order formalism, trivial symmetries and electromagnetic interactions of linearized supergravity. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3
48	Superfield component decompositions and the scan for prepotential supermultiplets in 10D superspaces. Journal of High Energy Physics, 2020, 2020, 1.	4.7	3
49	Examples of 4D, $\mathcal{N} = 2$ holonomy. International Journal of Modern Physics A, 2019, 34, 1950081.	1.5	3
50	Minimal Superspace Vector Fields for 5D Minimal Supersymmetry. Russian Physics Journal, 2002, 45, 682-689.	0.4	2
51	Adinkra foundation of component decomposition and the scan for superconformal multiplets in 11D, $\mathcal{N} = 1$ superspace. Journal of High Energy Physics, 2020, 2020, 1.	4.7	2
52	The 300 correlators suggests 4D, $\mathcal{N} = 1$ SUSY is a solution to a set of Sudoku puzzles. Journal of High Energy Physics, 2021, 2021, 1.	4.7	2
53	On 1D, $\mathcal{N} = 4$ supersymmetric SYK-type models. Part II. Journal of High Energy Physics, 2022, 2022, .	4.7	2
54	A derivation of an off-shell 2D, $\mathcal{N} = (2, 2)$ supergravity chiral projection operator. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 442002.	2.1	1

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55	Exploring the abelian 4D, $\mathcal{N} = 4$ vector-tensor supermultiplet and its off-shell central charge structure. Journal of High Energy Physics, 2019, 2019, 1.	4.7	1
56	On the ubiquity of electromagnetic-duality rotations in 4D, $\mathcal{N} = 1$ holonomy tensors for on-shell 4D supermultiplets. International Journal of Modern Physics A, 2020, 35, 2050008.	1.5	1
57	Weyl covariance, and proposals for superconformal prepotentials in 10D superspaces. Journal of High Energy Physics, 2021, 2021, 1.	4.7	1
58	Properties of HYPNs in examples of four-color, five-color, and six-color adinkras. International Journal of Modern Physics A, 2021, 36, 2150082.	1.5	1
59	4D $\mathcal{N} = 2$ Supersymmetric Off-shell Sigma Models on the Cotangent Bundles of Kähler Manifolds. Fortschritte Der Physik, 2000, 48, 115-118.	4.4	1
60	A note on exemplary off-shell constructions of 4D, $\mathcal{N} = 2$ supersymmetry representations. Journal of High Energy Physics, 2022, 2022, 1.	4.7	1
61	Component decompositions and adinkra libraries for supermultiplets in lower dimensional superspaces. Journal of High Energy Physics, 2021, 2021, 1.	4.7	0
62	SUPERSTRINGS: WHY EINSTEIN WOULD LOVE SPAGHETTI IN FUNDAMENTAL PHYSICS. , 2001, , .		0
63	Infinite-dimensional algebraic $\mathfrak{Spin}(N)$ structure in extended/higher dimensional SUSY holonomy for valise and on shell supermultiplet representations. Journal of High Energy Physics, 2022, 2022, .	4.7	0
64	Advening to adynkrafields: Young tableaux to component fields of the 10D, $\mathcal{N}=1$ scalar superfield. Advances in Theoretical and Mathematical Physics, 2021, 25, 1449-1547.	0.6	0