

Stephen L Adler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4856705/publications.pdf>

Version: 2024-02-01

60
papers

5,256
citations

361045

20
h-index

133063

59
g-index

63
all docs

63
docs citations

63
times ranked

2650
citing authors

#	ARTICLE	IF	CITATIONS
1	Axial-Vector Vertex in Spinor Electrodynamics. <i>Physical Review</i> , 1969, 177, 2426-2438.	2.7	3,514
2	Tests of the Conserved Vector Current and Partially Conserved Axial-Vector Current Hypotheses in High-Energy Neutrino Reactions. <i>Physical Review</i> , 1964, 135, B963-B966.	2.7	223
3	Lower and upper bounds on CSL parameters from latent image formation and IGM heating. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 2935-2957.	0.7	149
4	Why decoherence has not solved the measurement problem: a response to P.W. Anderson. <i>Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics</i> , 2003, 34, 135-142.	1.4	127
5	Is Quantum Theory Exact?. <i>Science</i> , 2009, 325, 275-276.	6.0	115
6	Collapse models with non-white noises. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 15083-15098.	0.7	77
7	Towards Quantum Superpositions of a Mirror: An Exact Open Systems Analysis. <i>Physical Review Letters</i> , 2005, 94, 030401.	2.9	56
8	Generalized quantum dynamics. <i>Nuclear Physics B</i> , 1994, 415, 195-242.	0.9	55
9	Structure and properties of Hughston's stochastic extension of the Schrödinger equation. <i>Journal of Mathematical Physics</i> , 2000, 41, 2485-2499.	0.5	50
10	Generalized quantum dynamics as pre-quantum mechanics. <i>Nuclear Physics B</i> , 1996, 473, 199-244.	0.9	42
11	Photon-emission rate from atomic systems in the CSL model. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 13395-13406.	0.7	39
12	Bulk heating effects as tests for collapse models. <i>Physical Review A</i> , 2018, 97, .	1.0	37
13	Can the flyby anomaly be attributed to earth-bound dark matter?. <i>Physical Review D</i> , 2009, 79, .	1.6	32
14	On spontaneous photon emission in collapse models. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 245304.	0.7	31
15	Remarks on a proposed Super-Kamiokande test for quantum gravity induced decoherence effects. <i>Physical Review D</i> , 2000, 62, .	1.6	30
16	Environmental influence on the measurement process in stochastic reduction models. <i>Journal of Physics A</i> , 2002, 35, 841-858.	1.6	30
17	Collapse models with non-white noises: II. Particle-density coupled noises. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 395308.	0.7	30
18	Weisskopf-Wigner decay theory for the energy-driven stochastic Schrödinger equation. <i>Physical Review D</i> , 2003, 67, .	1.6	24

#	ARTICLE	IF	CITATIONS
19	Derivation of the Lindblad generator structure by use of the Itô stochastic calculus. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 265, 58-61.	0.9	23
20	Planet-bound dark matter and the internal heat of Uranus, Neptune, and hot-Jupiter exoplanets. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 671, 203-206.	1.5	23
21	Placing direct limits on the mass of earth-bound dark matter. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 412002.	0.7	20
22	Lower and upper bounds on CSL parameters from latent image formation and IGM-heating. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 13501-13501.	0.7	19
23	Coherent states in quaternionic quantum mechanics. Journal of Mathematical Physics, 1997, 38, 2117-2126.	0.5	18
24	MODELING THE FLYBY ANOMALIES WITH DARK MATTER SCATTERING. International Journal of Modern Physics A, 2010, 25, 4577-4588.	0.5	18
25	SU(8) family unification with boson-fermion balance. International Journal of Modern Physics A, 2014, 29, 1450130.	0.5	17
26	Classical gauged massless Rarita-Schwinger fields. Physical Review D, 2015, 92, .	1.6	17
27	Implications of a frame dependent dark energy for the spacetime metric, cosmography, and effective Hubble constant. Physical Review D, 2019, 100, .	1.6	14
28	Should E8 SUSY Yang-Mills be reconsidered as a family unification model?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 533, 121-125.	1.5	13
29	MODELING THE FLYBY ANOMALIES WITH DARK MATTER SCATTERING: UPDATE WITH ADDITIONAL DATA AND FURTHER PREDICTIONS. International Journal of Modern Physics A, 2013, 28, 1350074.	0.5	13
30	Spherically symmetric vacuum solutions arising from trace dynamics modifications to gravitation. International Journal of Modern Physics D, 2015, 24, 1550011.	0.9	12
31	Algebraic and geometric aspects of generalized quantum dynamics. Physical Review D, 1994, 49, 6705-6708.	1.6	11
32	Proof of Jacobi identity in generalized quantum dynamics. Journal of Mathematical Physics, 1994, 35, 531-535.	0.5	11
33	Analysis of a gauged model with a spin- $\frac{1}{2}$ field directly coupled to a Rarita-Schwinger spin- $\frac{3}{2}$ field. Physical Review D, 2018, 97, .	1.6	10
34	Incorporating gravity into trace dynamics: the induced gravitational action. Classical and Quantum Gravity, 2013, 30, 195015.	1.5	9
35	Gravitation and the Noise Needed in Objective Reduction Models. , 0, , 390-399.		8
36	Quantized gauged massless Rarita-Schwinger fields. Physical Review D, 2015, 92, .	1.6	7

#	ARTICLE	IF	CITATIONS
37	Canonical field anticommutators in the extended gauged Rarita-Schwinger theory. <i>Physical Review D</i> , 2017, 96, .	1.6	7
38	Is “dark energy” a quantum vacuum energy?. <i>Modern Physics Letters A</i> , 2021, 36, .	0.5	7
39	Higgs boson mass bounds in the three- and six-Higgs doublet models for family structure. <i>Physical Review D</i> , 1999, 60, .	1.6	6
40	Peres experiment using photons: No test for hypercomplex (quaternionic) quantum theories. <i>Physical Review A</i> , 2017, 95, .	1.0	6
41	A frame-dependent gravitational effective action mimics a cosmological constant, but modifies the black hole horizon. <i>International Journal of Modern Physics D</i> , 2016, 25, 1643001.	0.9	5
42	Coleman’s “Weinberg symmetry breaking in $SU(8)$ induced by a third rank antisymmetric tensor scalar field. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 315401.	0.7	5
43	Implications of a frame dependent gravitational effective action for perturbations on the Robertson-Walker metric. <i>International Journal of Modern Physics D</i> , 2017, 26, 1750159.	0.9	5
44	Chiral anomaly calculation in the extended coupled Rarita-Schwinger model. <i>Physical Review D</i> , 2019, 99, .	1.6	5
45	Connecting the Dots: Mott for Emulsions, Collapse Models, Colored Noise, Frame Dependence of Measurements, Evasion of the “Free Will Theorem”. <i>Foundations of Physics</i> , 2018, 48, 1557-1567.	0.6	4
46	Are astrophysical “black” holes leaky?. <i>International Journal of Modern Physics D</i> , 2022, 31, .	0.9	4
47	Completing the Square to Find the Supersymmetric Matter Effective Action Induced by Coupling to Linearized $N=1$ Supergravity. <i>Annals of Physics</i> , 2001, 290, 11-26.	1.0	3
48	Covariance group for null geodesic expansion calculations, and its application to the apparent horizon. <i>International Journal of Modern Physics D</i> , 2021, 30, .	0.9	3
49	The matrix model for M theory as an exemplar of trace (or generalized quantum) dynamics. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 407, 229-233.	1.5	2
50	Scalar exchange forces and generalized most-attractive-channel rule. <i>Physical Review D</i> , 2000, 63, .	1.6	2
51	$SU(n)$ symmetry breaking by rank three and rank two antisymmetric tensor scalars. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 744, 380-384.	1.5	2
52	Coleman’s “Weinberg symmetry breaking in $SU(8)$ induced by a third rank antisymmetric tensor scalar field II: the fermion spectrum. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 295401.	0.7	2
53	Analysis of an $SU(8)$ model with a spin-1/2 field directly coupled to a gauged Rarita-Schwinger spin-3/2 field. <i>International Journal of Modern Physics A</i> , 2019, 34, 1950230.	0.5	2
54	Hubble parameter and related formulas for a Weyl scaling invariant dark energy action. <i>International Journal of Modern Physics D</i> , 2021, 30, 2150044.	0.9	2

#	ARTICLE	IF	CITATIONS
55	Gauge fixing in the partition function for generalized quantum dynamics. Journal of Mathematical Physics, 1998, 39, 1723-1729.	0.5	1
56	Special Issue on Spin Statistics. Foundations of Physics, 2010, 40, 681-683.	0.6	1
57	Phases with modular ground states for symmetry breaking by rank 3 and rank 2 antisymmetric tensor scalars. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 231-235.	1.5	1
58	Collinearity constraints for on-shell massless particle three-point functions, and implications for allowed-forbiddenn+1-point functions. Physical Review D, 2016, 93, .	1.6	1
59	Symmetry Breaking for Matter Coupled to Linearized Supergravity from the Perspective of the Current Supermultiplet. General Relativity and Gravitation, 2001, 33, 2109-2117.	0.7	0
60	Free field structure of the model with a spin-32 Rarita-Schwinger field directly coupled to a spin-12 field. Journal of Mathematical Physics, 2018, 59, 102302.	0.5	0