

Cosmas K Zachos

List of Publications by Year in descending order

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93
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citations

212478

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h-index

156644

58
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93
all docs

93
docs citations

93
times ranked

1140
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin multiplicities. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 422-427.	0.9	9
2	Elementary Results for the Fundamental Representation of SU(3). Reports on Mathematical Physics, 2015, 76, 401-404.	0.4	13
3	Deformation quantization: Quantum mechanics lives and works in phase space. EPJ Web of Conferences, 2014, 78, 02004.	0.1	2
4	Branched Hamiltonians and supersymmetry. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 145201.	0.7	9
5	A Concise Treatise on Quantum Mechanics in Phase Space. , 2014, , .		64
6	Umbral Vade Mecum. Frontiers in Physics, 2013, 1, .	1.0	1
7	Basics of Ternary Algebras and their underlying Nambu Brackets. Journal of Physics: Conference Series, 2013, 462, 012060.	0.3	0
8	Quantum Mechanics in Phase Space. Asia-Pacific Physics Newsletter, 2012, 01, 37-46.	0.0	72
9	Ternary plots for neutrino mixing visualization. Europhysics Letters, 2012, 99, 11001.	0.7	0
10	Renormalization Group Flows, Cycles, and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mi} \rangle \text{c} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Theorem Folklore. Physical Review Letters, 2012, 108, 131601.	2.9	24
11	Approximate solutions of functional equations. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 405205.	0.7	5
12	Renormalization group functional equations. Physical Review D, 2011, 83, .	1.6	16
13	Chaotic maps, Hamiltonian flows and holographic methods. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 445101.	0.7	11
14	Evolution profiles and functional equations. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 485208.	0.7	10
15	Classical and quantal ternary algebras. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 675, 387-392.	1.5	22
16	Chern-Simons and WZW anomaly cancelations across dimensions. Annals of Physics, 2008, 323, 3065-3073.	1.0	1
17	Ternary Virasoro-Witt algebra. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 666, 386-390.	1.5	39
18	UMBRALE DEFORMATIONS ON DISCRETE SPACE-TIME. International Journal of Modern Physics A, 2008, 23, 2005-2014.	0.5	6

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19	A classical bound on quantum entropy. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, F407-F412.	0.7	13
20	An atavistic Lie algebra. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 637, 123-127.	1.5	3
21	Lie algebras associated with one-dimensional aperiodic point sets. <i>Journal of Physics A</i> , 2006, 39, 1367-1374.	1.6	2
22	Vertex ring-indexed Lie algebras. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 620, 195-199.	1.5	8
23	Dimensional deconstruction and Wess-Zumino-Witten terms. <i>Physical Review D</i> , 2005, 71, .	1.6	21
24	Quantum Mechanics in Phase Space. <i>World Scientific Series in 20th Century Physics</i> , 2005, , .	0.0	230
25	Bounding gauged Skyrmion masses. <i>Physical Review D</i> , 2004, 70, .	1.6	10
26	COMMENT ON "NONCOMMUTATIVITY AS A POSSIBLE ORIGIN OF THE ULTRAHIGH-ENERGY COSMIC RAY AND THE TEV PHOTON PARADOXES". <i>Modern Physics Letters A</i> , 2004, 19, 1483-1487.	0.5	11
27	Deformation Quantization, Superintegrability and Nambu Mechanics. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2004, 19, 199-203.	0.4	2
28	Branes, Quantum Nambu Brackets and the Hydrogen Atom. <i>European Physical Journal D</i> , 2004, 54, 1393-1398.	0.4	5
29	BRANES, STRINGS, AND ODD QUANTUM NAMBU BRACKETS. , 2004, , .		4
30	Moyal Algebra, supersymmetrization. , 2004, , 249-249.		0
31	Wess-Zumino-Witten-Novikov Model, supersymmetrization. , 2004, , 505-505.		0
32	Krichever-Novikov Algebra, supersymmetrization. , 2004, , 224-224.		0
33	Effective Lagrangian, general supersymmetric system. , 2004, , 136-136.		0
34	Star Product, on flat space and torus. , 2004, , 381-381.		0
35	Nonabelian Duality, in supersymmetric sigma models. , 2004, , 268-268.		0
36	Graviphoton. , 2004, , 175-175.		0

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37	Membranes and consistent quantization of Nambu dynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 570, 82-88.	1.5	15
38	Classical and quantum Nambu mechanics. Physical Review D, 2003, 68, .	1.6	91
39	Quantizing Dirac and Nambu Brackets. AIP Conference Proceedings, 2003, , .	0.3	11
40	Deformation Quantization of Nambu Mechanics. AIP Conference Proceedings, 2003, , .	0.3	5
41	Deformation quantization of superintegrable systems and Nambu mechanics. New Journal of Physics, 2002, 4, 83-83.	1.2	39
42	DEFORMATION QUANTIZATION: QUANTUM MECHANICS LIVES AND WORKS IN PHASE-SPACE. International Journal of Modern Physics A, 2002, 17, 297-316.	0.5	128
43	Area potentials and deformation quantization. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 295, 241-246.	0.9	1
44	Generating all Wigner functions. Journal of Mathematical Physics, 2001, 42, 2396-2415.	0.5	49
45	NEGATIVE PROBABILITY AND UNCERTAINTY RELATIONS. Modern Physics Letters A, 2001, 16, 2381-2385.	0.5	26
46	A Survey of Star Product Geometry. , 2001, , 423-435.		2
47	Geometrical evaluation of star products. Journal of Mathematical Physics, 2000, 41, 5129-5134.	0.5	50
48	Wigner trajectory characteristics in phase space and field theory. Journal of Physics A, 1999, 32, 771-779.	1.6	34
49	Phase-Space Quantization of Field Theory. Progress of Theoretical Physics Supplement, 1999, 135, 244-258.	0.2	23
50	Features of time-independent Wigner functions. Physical Review D, 1998, 58, .	1.6	177
51	Matrix membranes and integrability. , 1998, , 183-196.		4
52	Integrable symplectic trilinear interaction terms for matrix membranes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 405, 37-44.	1.5	37
53	Geometry and duality in supersymmetric \tilde{f} -models. Nuclear Physics B, 1996, 469, 488-512.	0.9	22
54	Canonical non-Abelian dual transformations in supersymmetric field theories. Physical Review D, 1995, 52, R573-R576.	1.6	18

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55	Currents, charges, and canonical structure of pseudodual chiral models. Physical Review D, 1994, 49, 5408-5421.	1.6	110
56	THERMODYNAMIC q-DISTRIBUTIONS THAT AREN'T. Modern Physics Letters A, 1994, 09, 1-9.	0.5	41
57	Supersymmetry and the nonlocal yangian deformation symmetry. Nuclear Physics B, 1993, 402, 604-612.	0.9	23
58	Supersymmetry and the Nonlocal Yangian Deformation Symmetry. , 1993, , 187-194.		0
59	ALTERING THE SYMMETRY OF WAVE FUNCTIONS IN QUANTUM ALGEBRAS AND SUPERSYMMETRY. Modern Physics Letters A, 1992, 07, 1595-1600.	0.5	13
60	Quantum algebra deforming maps, Clebsch-Gordan coefficients, coproducts, R and U matrices. Journal of Mathematical Physics, 1991, 32, 676-688.	0.5	48
61	Paradigms of Quantum Algebras. , 1991, , 593-609.		50
62	Multiparameter associative generalizations of canonical commutation relations and quantized planes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 256, 43-49.	1.5	97
63	Infinite-dimensional algebras and a trigonometric basis for the classical Lie algebras. Journal of Mathematical Physics, 1990, 31, 1088-1094.	0.5	152
64	Deforming maps for quantum algebras. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 243, 237-244.	1.5	246
65	Infinite-dimensional algebras, sine brackets, and $SU(\hat{z})$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 224, 101-107.	1.5	161
66	Trigonometric structure constants for new infinite-dimensional algebras. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 218, 203-206.	1.5	205
67	(Super)conformal algebra on the (super)torus. Nuclear Physics B, 1989, 315, 43-78.	0.9	19
68	Fermionic center in the superconformal algebra on the supertorus. Nuclear Physics, Section B, Proceedings Supplements, 1989, 11, 414-424.	0.5	1
69	A presentation for the Virasoro and super-Virasoro algebras. Communications in Mathematical Physics, 1988, 117, 595-614.	1.0	9
70	Construction of classical Virasoro algebras as $SU(1,1)$ extensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 202, 320-324.	1.5	14
71	THEORETICAL EXPECTATIONS FOR $\tilde{L}_0, \hat{L}_0 \in \mathbb{Z}/2$. Modern Physics Letters A, 1987, 02, 247-250.	0.5	10
72	Instability of the static solution to the closed string with rigidity. Physical Review D, 1987, 35, 1512-1514.	1.6	26

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73	Trajectories of Strings with Rigidity. <i>Physical Review Letters</i> , 1986, 57, 799-802.	2.9	56
74	Classical dynamics of strings with rigidity. <i>Physical Review D</i> , 1986, 34, 3811-3823.	1.6	64
75	Geometrostasis and torsion in covariant superstrings. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1985, 161, 79-84.	1.5	29
76	Torsion and geometrostasis in nonlinear sigma models. <i>Nuclear Physics B</i> , 1985, 260, 630-688.	0.9	262
77	Lattice action forms stable under renormalization. <i>Physical Review D</i> , 1984, 29, 1202-1206.	1.6	10
78	Mass formula for pseudo-goldstone fermions in broken supersymmetry. <i>Nuclear Physics B</i> , 1984, 231, 235-249.	0.9	9
79	Geometry, Topology, and Supersymmetry in Nonlinear Models. <i>Physical Review Letters</i> , 1984, 53, 1799-1801.	2.9	214
80	The Scales and Upper Bounds of Classical Monopole Solutions. <i>NATO ASI Series Series B: Physics</i> , 1984, , 25-28.	0.2	0
81	Renormalization of U(1) lattice gauge actions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983, 121, 163-168.	1.5	21
82	Classical Upper Bounds for Grand-Unified Monopole Masses. <i>Physical Review Letters</i> , 1983, 50, 1242-1245.	2.9	18
83	Phase structure and renormalization trajectories of lattice SU(2) gauge theory. <i>Physical Review D</i> , 1982, 26, 2853-2870.	1.6	34
84	Structure of phenomenological lagrangians for broken supersymmetry. <i>Nuclear Physics B</i> , 1982, 201, 250-268.	0.9	75
85	Nonlocal-symmetry Ward identities. <i>Physical Review D</i> , 1981, 24, 2661-2668.	1.6	12
86	Asymptotic analysis of the monopole structure. <i>Physical Review D</i> , 1981, 24, 999-1004.	1.6	65
87	Nonlocal currents for supersymmetric nonlinear models. <i>Physical Review D</i> , 1980, 21, 411-417.	1.6	40
88	Some features of the hidden symmetry of $\mathcal{N}=1$ models. <i>Physical Review D</i> , 1980, 21, 3462-3465.	1.6	7
89	Non-local charges for the supersymmetric $\mathcal{N}=1$ model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1979, 88, 273-275.	1.5	20
90	$N = 2$ supergravity theory with a gauged central charge. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1978, 76, 329-332.	1.5	80

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91	Yang-Mills string theories. Nuclear Physics B, 1977, 125, 52-60.	0.9	1
92	Renormalization group functional equations. , 0, .		1
93	A Compact Formula for Rotations as Spin Matrix Polynomials. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	13