Fedele Lizzi

List of Publications by Year
in descending order

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114 papers	2,116 citations	279798 23 h-index	276875 41 g-index
115 all docs	115 docs citations	115 times ranked	671 citing authors

#	Article	IF	Citations
1	Doubly Strange Dibaryon in the Chiral Model. Physical Review Letters, 1984, 52, 887-890.	7.8	153
2	Dibaryons as chiral solitons. Nuclear Physics B, 1985, 256, 525-556.	2.5	133
3	Cosmological perturbations and short distance physics from Noncommutative Geometry. Journal of High Energy Physics, 2002, 2002, 049-049.	4.7	122
4	Quantization of the null string and absence of critical dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 182, 326-330.	4.1	80
5	Infinitely many star products to play with. Journal of High Energy Physics, 2002, 2002, 026-026.	4.7	74
6	Twisting all the way: From classical mechanics to quantum fields. Physical Review D, 2008, 77, .	4.7	70
7	Noncommutative Spacetimes. Lecture Notes in Physics, 2009, , .	0.7	70
8	Fermion Hilbert space and fermion doubling in the noncommutative geometry approach to gauge theories. Physical Review D, 1997, 55, 6357-6366.	4.7	62
9	Grand symmetry, spectral action and the Higgs mass. Journal of High Energy Physics, 2014, 2014, 1.	4.7	50
10	String Geometry and the Noncommutative Torus. Communications in Mathematical Physics, 1999, 206, 603-637.	2.2	47
11	Twisted noncommutative field theory with the Wick-Voros and Moyal products. Physical Review D, 2008, 78, .	4.7	46
12	GENERALIZED WEYL SYSTEMS AND Î²-MINKOWSKI SPACE. Modern Physics Letters A, 2002, 17, 2105-2126.	1.2	45
13	Geometry of the gauge algebra in noncommutative Yang-Mills theory. Journal of High Energy Physics, 2001, 2001, 032-032.	4.7	44
14	Space dimensions from supersymmetry for the N=2 spinning string: A four-dimensional model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 191, 85-90.	4.1	36
15	From Large N Matrices to the Noncommutative Torus. Communications in Mathematical Physics, 2001, 217, 181-201.	2.2	34
16	The fuzzy disc. Journal of High Energy Physics, 2003, 2003, 057-057.	4.7	33
17	Î¸-vacua, fermions from bosons, solitons and Wess-Zumino terms in string models. Nuclear Physics B, 1986, 263, 608-620.	2.5	29
18	Distances on a lattice from non-commutative geometry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 341, 139-146.	4.1	27

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19	Duality Symmetries and Noncommutative Geometry of String Spacetimes. Communications in Mathematical Physics, 1998, 197, 667-712.	2.2	26
20	Twisted conformal symmetry in noncommutative two-dimensional quantum field theory. Physical Review D, 2006, 73, .	4.7	26
21	Noncommutative spacetime symmetries: Twist versus covariance. Physical Review D, 2006, 74, .	4.7	25
22	Translation invariance, commutation relations and ultraviolet/infrared mixing. Journal of High Energy Physics, 2009, 2009, 054-054.	4.7	25
23	High energy bosons do not propagate. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 731, 311-315.	4.1	25
24	CONSTRAINTS ON UNIFIED GAUGE THEORIES FROM NONCOMMUTATIVE GEOMETRY. Modern Physics Letters A, 1996, 11, 2561-2572.	1.2	24
25	Topological Symmetry Breakdown in Cholesterics, Nematics, andHe3. Physical Review Letters, 1984, 52, 1818-1821.	7.8	23
26	Higgs mass in noncommutative geometry. Fortschritte Der Physik, 2014, 62, 863-868.	4.4	23
27	NONCOMMUTATIVE FIELD THEORY: NUMERICAL ANALYSIS WITH THE FUZZY DISK. International Journal of Modern Physics A, 2012, 27, 1250137.	1.5	22
28	Localization and reference frames in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î¹</mml:mi></mml:math> -Minkowski spacetime. Physical Review D, 2019, 99, .	4.7	22
29	Inconstant Planckâ€™s constant. International Journal of Modern Physics A, 2015, 30, 1550209.	1.5	21
30	Noncommutative field theory from angular twist. Physical Review D, 2018, 98, .	4.7	21
31	Noncommutative gauge theory and symmetry breaking in matrix models. Physical Review D, 2010, 81, .	4.7	20
32	Spectral geometry with a cut-off: Topological and metric aspects. Journal of Geometry and Physics, 2014, 82, 18-45.	1.4	20
33	Equations of motion as constraints: superselection rules, Ward identities. Journal of High Energy Physics, 2017, 2017, 1.	4.7	20
34	Noncommutative lattices as finite approximations. Journal of Geometry and Physics, 1996, 18, 163-194.	1.4	19
35	ANOTHER ALTERNATIVE TO COMPACTIFICATION: NONCOMMUTATIVE GEOMETRY AND RANDALLâ€“SUNDRUM MODELS. Modern Physics Letters A, 2001, 16, 1-8.	1.2	19
36	Wick rotation and fermion doubling in noncommutative geometry. Physical Review D, 2016, 94, .	4.7	19

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37	A new approach to strings and superstrings. Nuclear Physics B, 1986, 277, 359-387.	2.5	18
38	Metric Properties of the Fuzzy Sphere. Letters in Mathematical Physics, 2013, 103, 183-205.	1.1	18
39	Lorentz signature and twisted spectral triples. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
40	The fuzzy disc: a review. Journal of Physics: Conference Series, 2006, 53, 830-842.	0.4	17
41	Linearly rising Regge trajectories and bag and string models for hadrons. Physical Review D, 1985, 31, 1685-1688.	4.7	16
42	A model of interacting strings and the Hagedorn phase transition. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 244, 27-32.	4.1	16
43	INFLATIONARY COSMOLOGY FROM NONCOMMUTATIVE GEOMETRY. International Journal of Modern Physics A, 1996, 11, 2907-2929.	1.5	16
44	Bosonic spectral action induced from anomaly cancellation. Journal of High Energy Physics, 2010, 2010, 1.	4.7	16
45	The momentum spaces of Î°-Minkowski noncommutative spacetime. Nuclear Physics B, 2020, 958, 115117.	2.5	16
46	Noncommutative geometry and spacetime gauge symmetries of string theory. Chaos, Solitons and Fractals, 1999, 10, 445-458.	5.1	15
47	From the fuzzy disc to edge currents in Chern-Simons Theory. Modern Physics Letters A, 2003, 18, 2381-2387.	1.2	15
48	The beat of a fuzzy drum: fuzzy Bessel functions for the disc. Journal of High Energy Physics, 2005, 2005, 080-080.	4.7	15
49	Spectral action with zeta function regularization. Physical Review D, 2015, 91, .	4.7	15
50	Target Space Duality in Noncommutative Geometry. Physical Review Letters, 1997, 79, 3581-3584.	7.8	14
51	Spectral action, Weyl anomaly and the Higgs-dilaton potential. Journal of High Energy Physics, 2011, 2011, 1.	4.7	14
52	Eikonal type equations for geometrical singularities of solutions in field theory. Journal of Geometry and Physics, 1994, 14, 211-235.	1.4	13
53	Finite quantum physics and noncommutative geometry. Nuclear Physics, Section B, Proceedings Supplements, 1995, 37, 20-45.	0.4	13
54	The nucleation model of the Hagedorn phase transition. Nuclear Physics B, 1991, 359, 441-482.	2.5	12

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55	Quantum phase space from string solitons. Physical Review D, 1997, 55, 7859-7871.	4.7	12
56	A nonperturbative form of the spectral action principle in noncommutative geometry. Journal of Geometry and Physics, 1998, 26, 329-339.	1.4	12
57	MATRIX Ïƒ-MODELS FOR MULTI D-BRANE DYNAMICS. Modern Physics Letters A, 1998, 13, 829-842.	1.2	12
58	Time discretization from noncommutativity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 818, 136372.	4.1	12
59	MIRROR FERMIONS IN NONCOMMUTATIVE GEOMETRY. Modern Physics Letters A, 1998, 13, 231-237.	1.2	11
60	Topological aspects of string theories. Nuclear Physics B, 1987, 287, 508-550.	2.5	10
61	Star-product in the presence of a monopole. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3614-3618.	2.1	10
62	HIGGS-DILATON LAGRANGIAN FROM SPECTRAL REGULARIZATION. Modern Physics Letters A, 2012, 27, 1250203.	1.2	10
63	Localizability in Î²-Minkowski spacetime. International Journal of Geometric Methods in Modern Physics, 2020, 17, 2040010.	2.0	10
64	Matrix Quantum Mechanics and Soliton Regularization of Noncommutative Field Theory. Advances in Theoretical and Mathematical Physics, 2004, 8, 1-82.	0.6	10
65	Lattice gauge fields and noncommutative geometry. Journal of Geometry and Physics, 1998, 24, 353-385.	1.4	9
66	GAUGE AND POINCARÃ‰ INVARIANT REGULARIZATION AND HOPF SYMMETRIES. Modern Physics Letters A, 2012, 27, 1250097.	1.2	9
67	Spectral Noncommutative Geometry Standard Model and all that. International Journal of Modern Physics A, 2019, 34, 1930010.	1.5	9
68	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î²</mml:mi></mml:mrow></mml:math> -PoincarÃ© comodules, braided tensor products, and noncommutative quantum field theory. Physical Review D, 2021, 103, .	4.7	9
69	Universal Landau Pole. Physical Review Letters, 2013, 111, 011601.	7.8	8
70	Matrix Bases for Star Products: a Review. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	8
71	Double quantization. Physical Review D, 2022, 105, .	4.7	8
72	Computation of Amplitudes in the Discretized Approach to String Field Theory. Physical Review Letters, 1988, 61, 278-281.	7.8	7

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73	Statistical mechanics of null strings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 232, 311-316.	4.1	7
74	Total interaction rate of highly excited strings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 246, 385-390.	4.1	7
75	DYNAMICAL ASPECTS OF LIE-POISSON STRUCTURES. Modern Physics Letters A, 1993, 08, 2973-2987.	1.2	7
76	THE ZERO TENSION LIMIT OF THE VIRASORO ALGEBRA AND THE CENTRAL EXTENSION. Modern Physics Letters A, 1994, 09, 1495-1500.	1.2	7
77	Unification of coupling constants, dimension 6 operators and the spectral action. International Journal of Modern Physics A, 2015, 30, 1550033.	1.5	7
78	Lattices and their continuum limits. Journal of Geometry and Physics, 1996, 20, 318-328.	1.4	6
79	Noncommutative lattices and their continuum limits. Journal of Geometry and Physics, 1996, 20, 329-348.	1.4	6
80	Effective cosmological constant induced by stochastic fluctuations of Newton's constant. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 498-501.	4.1	6
81	Entangled scent of a charge. Journal of High Energy Physics, 2018, 2018, 1.	4.7	5
82	The Kirillov picture for the Wigner particle. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 255203.	2.1	5
83	STRINGS, NONCOMMUTATIVE GEOMETRY AND THE SIZE OF THE TARGET SPACE. International Journal of Modern Physics A, 1999, 14, 4501-4517.	1.5	4
84	Noncommutative geometry in physics: A point of view. Nuclear Physics, Section B, Proceedings Supplements, 2002, 104, 143-149.	0.4	4
85	A new matrix model for noncommutative field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 578, 449-458.	4.1	4
86	Publisherâ€™s Note: Noncommutative spacetime symmetries: Twist versus covariance [Phys. Rev. D74, 025014 (2006)]. Physical Review D, 2006, 74, .	4.7	4
87	INTERNAL SPACE FOR THE NONCOMMUTATIVE GEOMETRY STANDARD MODEL AND STRINGS. International Journal of Modern Physics A, 2007, 22, 1317-1334.	1.5	4
88	Electric-magnetic duality in noncommutative geometry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 417, 303-311.	4.1	3
89	NONCOMMUTATIVE CONFORMAL FIELD THEORY IN THE TWIST-DEFORMED CONTEXT. Modern Physics Letters A, 2008, 23, 3307-3315.	1.2	3
90	Dimensional deception from noncommutative tori: An alternative to the Horava-Lifshitz model. Physical Review D, 2017, 96, .	4.7	3

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91	Clifford structures in noncommutative geometry and the extended scalar sector. Physical Review D, 2018, 97, .	4.7	3
92	Vertices in the discretized approach to string field theory. Nuclear Physics B, 1989, 319, 211-238.	2.5	2
93	NONCOMMUTATIVE GEOMETRY, STRINGS AND DUALITY. International Journal of Modern Physics B, 2000, 14, 2383-2396.	2.0	2
94	Multibaryons in Skyrme and quark models. Physical Review D, 1985, 31, 226-228.	4.7	1
95	STRING FIELDS AS LIMIT OF FUNCTIONS AND SURFACE TERMS IN STRING FIELD THEORY. International Journal of Modern Physics A, 1989, 04, 451-466.	1.5	1
96	THE SPACE OF STRING CONFIGURATIONS IN STRING FIELD THEORY. International Journal of Modern Physics A, 1990, 05, 1911-1918.	1.5	1
97	A DYNAMICAL MODEL OF THE BEHAVIOR OF HADRONIC AND FUNDAMENTAL STRINGS AT FINITE DENSITIES. International Journal of Modern Physics A, 1992, 07, 7787-7814.	1.5	1
98	On the absence of continuous symmetries for noncommutative 3-spheres. Journal of Mathematical Physics, 2005, 46, 103516.	1.1	1
99	Greenâ€™s functions for translation invariant star products. Modern Physics Letters A, 2015, 30, 1550194.	1.2	1
100	Asymptotic commutativity of quantized spaces: The case of CPp,q. Physical Review D, 2020, 102, .	4.7	1
101	Missing the point in noncommutative geometry. SynthÃˆse, 2021, 199, 4695-4728.	1.1	1
102	Confinement of non-Abelian monopoles in the MIT bag model. Physical Review D, 1984, 29, 2972-2974.	4.7	0
103	Self-adjointness of the Dirac Hamiltonian in point instanton and meron fields. Physical Review D, 1984, 30, 442-446.	4.7	0
104	Matrix Models, Emergent Spacetime and Symmetry Breaking. , 2009, , .		0
105	Gauge symmetry breaking in matrix models. General Relativity and Gravitation, 2011, 43, 2531-2539.	2.0	0
106	Matrix geometries emergent from a point. Reviews in Mathematical Physics, 2014, 26, 1450017.	1.7	0
107	Universal Landau Pole at the Planck scale. , 2014, , .		0
108	NC Geometry of Strings and Duality Symmetry. Lecture Notes in Physics, 2002, , 325-337.	0.7	0

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109	Noncommutative Torus. , 2004, , 272-272.		0
110	Deformations of the Canonical Commutation Relations and Metric Structures. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	0
111	Dimensional Deception for the Noncommutative Torus. Springer Proceedings in Physics, 2019, , 243-257.	0.2	0
112	Quantum Spacetime, Noncommutative Geometry and Observers. Universe, 2022, 8, 24.	2.5	0
113	The Weylâ€“Mellin quantization map. International Journal of Geometric Methods in Modern Physics, 2022, 19, .	2.0	0
114	Tolerance relations and quantization. Letters in Mathematical Physics, 2022, 112, .	1.1	0