

Flavio Mercati

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

993
citations

430874

18
h-index

454955

30
g-index

53
all docs

53
docs citations

53
times ranked

511
citing authors

#	ARTICLE	IF	CITATIONS
1	Relative locality in $\hat{\mathbb{P}}^n$ -Poincaré. Classical and Quantum Gravity, 2013, 30, 145002.	4.0	86
2	Identification of a Gravitational Arrow of Time. Physical Review Letters, 2014, 113, 181101.	7.8	74
3	Taming Nonlocality in Theories with Planck-Scale Deformed Lorentz Symmetry. Physical Review Letters, 2011, 106, 071301.	7.8	71
4	Constraining the Energy-Momentum Dispersion Relation with Planck-Scale Sensitivity Using Cold Atoms. Physical Review Letters, 2009, 103, 171302.	7.8	70
5	Modifications to Lorentz invariant dispersion in relatively boosted frames. Physical Review D, 2010, 82, .	4.7	53
6	CSF markers in Alzheimer disease patients are not related to the different degree of cognitive impairment. Journal of the Neurological Sciences, 2006, 251, 124-128.	0.6	52
7	Noncommutative spaces and Poincaré symmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 766, 181-185.	4.1	40
8	Relativistic kinematics beyond special relativity. Physical Review D, 2012, 86, .	4.7	36
9	OPERA-REASSESSING DATA ON THE ENERGY DEPENDENCE OF THE SPEED OF NEUTRINOS. International Journal of Modern Physics D, 2011, 20, 2623-2640.	2.1	33
10	A no-pure-boost uncertainty principle from spacetime noncommutativity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 671, 298-302.	4.1	32
11	Probing the quantum-gravity realm with slow atoms. Classical and Quantum Gravity, 2010, 27, 215003.	4.0	28
12	Locality and the relativity principle beyond special relativity. Physical Review D, 2011, 84, .	4.7	28
13	Noether analysis of the twisted Hopf symmetries of canonical noncommutative spacetimes. Physical Review D, 2008, 78, .	4.7	26
14	Through the big bang: Continuing Einstein's equations beyond a cosmological singularity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 339-343.	4.1	24
15	Localization and reference frames in $\hat{\mathbb{P}}^n$ -Minkowski spacetime. Physical Review D, 2019, 99, .	4.7	22
16	MINIMAL LENGTH IN QUANTUM SPACE AND INTEGRATIONS OF THE LINE ELEMENT IN NONCOMMUTATIVE GEOMETRY. Reviews in Mathematical Physics, 2012, 24, 1250010.	1.7	20
17	The solution to the problem of time in shape dynamics. Classical and Quantum Gravity, 2014, 31, 155001.	4.0	20
18	UV AND IR QUANTUM-SPACETIME EFFECTS FOR THE CHANDRASEKHAR MODEL. International Journal of Modern Physics D, 2012, 21, 1250052.	2.1	19

#	ARTICLE	IF	CITATIONS
19	Pauli-Jordan function and scalar field quantization in $\hat{\eta}$ -Minkowski noncommutative spacetime. Physical Review D, 2018, 98, .	4.7	19
20	First Results of the Noether Theorem for Hopf-Algebra Spacetime Symmetries. Progress of Theoretical Physics Supplement, 2007, 171, 65-78.	0.1	18
21	Discreteness of area in noncommutative space. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 676, 180-183.	4.1	18
22	GRAVITY IN QUANTUM SPACE-TIME. International Journal of Modern Physics D, 2010, 19, 2385-2392.	2.1	17
23	The momentum spaces of $\hat{\eta}$ -Minkowski noncommutative spacetime. Nuclear Physics B, 2020, 958, 115117.	2.5	16
24	Quantum $\hat{\eta}$ -deformed differential geometry and field theory. International Journal of Modern Physics D, 2016, 25, 1650053.	2.1	13
25	Light cone in a quantum spacetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 787, 105-110.	4.1	13
26	Physical constraints on quantum deformations of spacetime symmetries. Nuclear Physics B, 2018, 933, 320-339.	2.5	13
27	Interplay between Spacetime Curvature, Speed of Light and Quantum Deformations of Relativistic Symmetries. Symmetry, 2021, 13, 2099.	2.2	12
28	2+1gravity on the conformal sphere. Physical Review D, 2013, 87, .	4.7	11
29	A shape dynamical approach to holographic renormalization. European Physical Journal C, 2015, 75, 1.	3.9	11
30	Vectorlike deformations of relativistic quantum phase-space and relativistic kinematics. International Journal of Modern Physics D, 2017, 26, 1750123.	2.1	11
31	Scale anomaly as the origin of time. General Relativity and Gravitation, 2013, 45, 911-938.	2.0	10
32	Through the Big Bang in inflationary cosmology. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 025-025.	5.4	10
33	Localizability in $\hat{\eta}$ -Minkowski spacetime. International Journal of Geometric Methods in Modern Physics, 2020, 17, 2040010.	2.0	10
34	$\hat{\eta}$ -Poincaré comodules, braided tensor products, and noncommutative quantum field theory. Physical Review D, 2021, 103, .	4.7	9
35	The gravity/CFT correspondence. European Physical Journal C, 2013, 73, 1.	3.9	8
36	Fuzzy worldlines with $\hat{\eta}$ -Poincaré symmetries. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8

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37	Coisotropic Lie bialgebras and complementary dual Poisson homogeneous spaces. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 315203.	2.1	7
38	Threshold anomalies in Horava–Lifshitz-type theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 686, 283-287.	4.1	6
39	Extended noncommutative Minkowski spacetimes and hybrid gauge symmetries. European Physical Journal C, 2018, 78, 1.	3.9	6
40	Weakness of accelerator bounds on departures from Lorentz symmetry for the electron. Europhysics Letters, 2012, 99, 21001.	2.0	5
41	Cosmological self-gravitating fluid solutions of shape dynamics. Physical Review D, 2016, 94, .	4.7	3
42	Gravitational collapse of thin shells of dust in asymptotically flat shape dynamics. Physical Review D, 2017, 95, .	4.7	2
43	Total Collisions in the N-Body Shape Space. Symmetry, 2021, 13, 1712.	2.2	2
44	On the fate of Birkhoff’s theorem in Shape Dynamics. General Relativity and Gravitation, 2016, 48, 1.	2.0	1
45	ON THE THEORY AND PHENOMENOLOGY OF SPACETIME SYMMETRIES AT THE PLANCK SCALE. International Journal of Modern Physics A, 2008, 23, 1157-1164.	1.5	0
46	Publisher’s Note: Constraining the Energy-Momentum Dispersion Relation with Planck-Scale Sensitivity Using Cold Atoms [Phys. Rev. Lett.103, 171302 (2009)]. Physical Review Letters, 2010, 104, .	7.8	0
47	Quantum-Gravity Phenomenology of soft ultraviolet–infrared mixing. , 2010, , .		0
48	Shape Dynamics and AdS/CFT. Journal of Physics: Conference Series, 2012, 360, 012062.	0.4	0
49	SENSITIVITY TO PLANCK SCALE EFFECTS IN COLD ATOM EXPERIMENTS. , 2012, , .		0
50	Right About Time?. The Frontiers Collection, 2015, , 87-102.	0.2	0
51	U-Turn or U Die. The Frontiers Collection, 2016, , 145-157.	0.2	0
52	On the fate of Birkhoff’s theorem in Shape Dynamics. , 2017, , .		0
53	The Weyl–Mellin quantization map. International Journal of Geometric Methods in Modern Physics, 2022, 19, .	2.0	0