

# 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	The Weyl-Mellin quantization map. International Journal of Geometric Methods in Modern Physics, 2022, 19, .	2.0	0
2	$\hat{\rho}$ -Poincaré comodules, braided tensor products, and noncommutative quantum field theory. Physical Review D, 2021, 103, .	4.7	9
3	Coisotropic Lie bialgebras and complementary dual Poisson homogeneous spaces. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 315203.	2.1	7
4	Total Collisions in the N-Body Shape Space. Symmetry, 2021, 13, 1712.	2.2	2
5	Interplay between Spacetime Curvature, Speed of Light and Quantum Deformations of Relativistic Symmetries. Symmetry, 2021, 13, 2099.	2.2	12
6	Fuzzy worldlines with $\hat{\rho}$ -Poincaré symmetries. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
7	The momentum spaces of $\hat{\rho}$ -Minkowski noncommutative spacetime. Nuclear Physics B, 2020, 958, 115117.	2.5	16
8	Localizability in $\hat{\rho}$ -Minkowski spacetime. International Journal of Geometric Methods in Modern Physics, 2020, 17, 2040010.	2.0	10
9	Through the Big Bang in inflationary cosmology. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 025-025.	5.4	10
10	Localization and reference frames in $\hat{\rho}$ -Minkowski spacetime. Physical Review D, 2019, 99, .	4.7	22
11	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
12	Extended noncommutative Minkowski spacetimes and hybrid gauge symmetries. European Physical Journal C, 2018, 78, 1.	3.9	6
13	Light cone in a quantum spacetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 787, 105-110.	4.1	13
14	Physical constraints on quantum deformations of spacetime symmetries. Nuclear Physics B, 2018, 933, 320-339.	2.5	13
15	Pauli-Jordan function and scalar field quantization in $\hat{\rho}$ -Minkowski noncommutative spacetime. Physical Review D, 2018, 98, .	4.7	19
16	Noncommutative spaces and Poincaré symmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 766, 181-185.	4.1	40
17	Gravitational collapse of thin shells of dust in asymptotically flat shape dynamics. Physical Review D, 2017, 95, .	4.7	2
18	Vectorlike deformations of relativistic quantum phase-space and relativistic kinematics. International Journal of Modern Physics D, 2017, 26, 1750123.	2.1	11

#	ARTICLE	IF	CITATIONS
19	On the fate of Birkhoff's theorem in Shape Dynamics. , 2017, , .		0
20	Quantum $\hat{q}$ -deformed differential geometry and field theory. International Journal of Modern Physics D, 2016, 25, 1650053.	2.1	13
21	On the fate of Birkhoff's theorem in Shape Dynamics. General Relativity and Gravitation, 2016, 48, 1.	2.0	1
22	Cosmological self-gravitating fluid solutions of shape dynamics. Physical Review D, 2016, 94, .	4.7	3
23	U-Turn or U Die. The Frontiers Collection, 2016, , 145-157.	0.2	0
24	A shape dynamical approach to holographic renormalization. European Physical Journal C, 2015, 75, 1.	3.9	11
25	Right About Time?. The Frontiers Collection, 2015, , 87-102.	0.2	0
26	The solution to the problem of time in shape dynamics. Classical and Quantum Gravity, 2014, 31, 155001.	4.0	20
27	Identification of a Gravitational Arrow of Time. Physical Review Letters, 2014, 113, 181101.	7.8	74
28	The gravity/CFT correspondence. European Physical Journal C, 2013, 73, 1.	3.9	8
29	Scale anomaly as the origin of time. General Relativity and Gravitation, 2013, 45, 911-938.	2.0	10
30	Relative locality in $\hat{q}$ -Poincaré. Classical and Quantum Gravity, 2013, 30, 145002.	4.0	86
31	2+1gravity on the conformal sphere. Physical Review D, 2013, 87, .	4.7	11
32	Relativistic kinematics beyond special relativity. Physical Review D, 2012, 86, .	4.7	36
33	UV AND IR QUANTUM-SPACETIME EFFECTS FOR THE CHANDRASEKHAR MODEL. International Journal of Modern Physics D, 2012, 21, 1250052.	2.1	19
34	MINIMAL LENGTH IN QUANTUM SPACE AND INTEGRATIONS OF THE LINE ELEMENT IN NONCOMMUTATIVE GEOMETRY. Reviews in Mathematical Physics, 2012, 24, 1250010.	1.7	20
35	Shape Dynamics and AdS/CFT. Journal of Physics: Conference Series, 2012, 360, 012062.	0.4	0
36	Weakness of accelerator bounds on departures from Lorentz symmetry for the electron. Europhysics Letters, 2012, 99, 21001.	2.0	5

#	ARTICLE	IF	CITATIONS
37	SENSITIVITY TO PLANCK SCALE EFFECTS IN COLD ATOM EXPERIMENTS. , 2012, , .		0
38	Taming Nonlocality in Theories with Planck-Scale Deformed Lorentz Symmetry. Physical Review Letters, 2011, 106, 071301.	7.8	71
39	Locality and the relativity principle beyond special relativity. Physical Review D, 2011, 84, .	4.7	28
40	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
41	Threshold anomalies in Horavaâ€“Lifshitz-type theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 686, 283-287.	4.1	6
42	Publisherâ€™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
43	GRAVITY IN QUANTUM SPACEâ€“TIME. International Journal of Modern Physics D, 2010, 19, 2385-2392.	2.1	17
44	Quantum-Gravity Phenomenology of soft ultravioletâˆ™infrared mixing. , 2010, , .		0
45	Probing the quantum-gravity realm with slow atoms. Classical and Quantum Gravity, 2010, 27, 215003.	4.0	28
46	Modifications to Lorentz invariant dispersion in relatively boosted frames. Physical Review D, 2010, 82, .	4.7	53
47	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
48	Discreteness of area in noncommutative space. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 676, 180-183.	4.1	18
49	Constraining the Energy-Momentum Dispersion Relation with Planck-Scale Sensitivity Using Cold Atoms. Physical Review Letters, 2009, 103, 171302.	7.8	70
50	Noether analysis of the twisted Hopf symmetries of canonical noncommutative spacetimes. Physical Review D, 2008, 78, .	4.7	26
51	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
52	First Results of the Noether Theorem for Hopf-Algebra Spacetime Symmetries. Progress of Theoretical Physics Supplement, 2007, 171, 65-78.	0.1	18
53	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