Mario Rocca

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8995636/publications.pdf

Version: 2024-02-01

42	432	759190 12	794568 19
papers	citations	h-index	g-index

42	42	42	121
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Two approaches that prove divergence free nature of non-local gravity. European Physical Journal C, 2021, 81, 1.	3.9	6
2	Useful model to understand Schwartzâ€™ distributionsâ€™ approach to non-renormalizable QFTs. Brazilian Journal of Physics, 2021, 51, 803-812.	1.4	0
3	Finite Tsallis gravitational partition function for a system of galaxies. General Relativity and Gravitation, 2021, 53, 1.	2.0	6
4	Gravitational partition function modified by superlight braneworld perturbative modes. Physical Review D, 2021, 103, .	4.7	2
5	Tsallisâ€™ statistics for long range interactions: Gravity. Physica A: Statistical Mechanics and Its Applications, 2021, 589, 126597.	2.6	4
6	Non-relativistic quantum field theory of Verlindeâ€™s emergent entropic gravity. Annals of Physics, 2020, 412, 168013.	2.8	9
7	A subtle error in J. Non-Cryst Solids 360, 13 (2013), Residual entropy and structural disorder in glass: A two-level model and a review of spatial and ensemble vs. temporal sampling. Journal of Non-Crystalline Solids, 2020, 545, 120238.	3.1	0
8	Statistical Mechanics of planar stellar systems: Solving divergences in self-gravitational systems. Physica A: Statistical Mechanics and Its Applications, 2020, 559, 125088.	2.6	1
9	Gupta-Feynman based Quantum Field Theory of Einsteinâ€™s Gravity. Journal of Physics Communications, 2020, 4, 035014.	1.2	7
10	A Review of the Classical Canonical Ensemble Treatment of Newtonâ€™s Gravitation. Entropy, 2019, 21, 677.	2.2	5
11	Resolving the partition functionâ€™s paradox of the hydrogen atom. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122169.	2.6	4
12	Quantum statistical treatment of Verlindeâ€™s conjecture in a Tsallis framework. Physica A: Statistical Mechanics and Its Applications, 2019, 517, 341-348.	2.6	4
13	Dimensionally regularized Boltzmannâ€“Gibbs statistical mechanics and two-body Newtonâ€™s gravitation. Physica A: Statistical Mechanics and Its Applications, 2018, 503, 793-799.	2.6	9
14	Dimensional regularization of Renyiâ€™s statistical mechanics. Physica A: Statistical Mechanics and Its Applications, 2018, 505, 794-804.	2.6	6
15	Dimensionally regularized Tsallisâ€™ statistical mechanics and two-body Newtonâ€™s gravitation. Physica A: Statistical Mechanics and Its Applications, 2018, 497, 310-318.	2.6	10
16	On the entropic derivation of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml1" display="inline" overflow="scroll" altimg="si1.gif"><mml:msup><mml:mrow><mml:mi>r</mml:mi></mml:mrow><mml:mrow><mml:mo>â^’</mml:mo><mml:mn>2</mml:mn></mml: Newtonian gravity force. Physica A: Statistical Mechanics and Its Applications, 2018, 505, 190-195.	2.6	19
17	Hidden correlations entailed by <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml13" display="inline" overflow="scroll" altimg="si13.gif"><mml:mi>q</mml:mi></mml:math>-non additivity render the q-monoatomic gas highly non trivial. Physica A: Statistical Mechanics and Its Applications, 2018, 490, 50-58.	2.6	1
18	Quantum field theory, Feynman-, Wheeler propagators, dimensional regularization in configuration space and convolution of Lorentz Invariant Tempered Distributions. Journal of Physics Communications, 2018, 2, 115029.	1.2	17

#	Article	IF	Citations
19	Newtonâ€™s gravitation-forceâ€™s classical average proof of a Verlindeâ€™s conjecture. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 767-772.	2.6	4
20	Quantum treatment of Verlindeâ€™s entropic force conjecture. Physica A: Statistical Mechanics and Its Applications, 2018, 511, 139-142.	2.6	12
21	Tsallisâ€™ quantum q-fields. Chinese Physics C, 2018, 42, 053102.	3.7	7
22	Analysis of Tsallisâ€™ classical partition functionâ€™s poles. Physica A: Statistical Mechanics and Its Applications, 2017, 487, 196-204.	2.6	2
23	Perturbative Treatment of the Non-Linear q-SchrÃ¶dinger and q-Kleinâ€“Gordon Equations. Entropy, 2017, 19, 21.	2.2	5
24	q-Gamow states for intermediate energies. Nuclear Physics A, 2016, 955, 16-26.	1.5	5
25	Physical peculiarities of divergences emerging in q-deformed statistics. European Physical Journal B, 2016, 89, 1.	1.5	3
26	q-Gamow states as continuous linear functionals on analytical test functions. Nuclear Physics A, 2016, 948, 19-27.	1.5	7
27	General solution of a fractional diffusionâ€“advection equation for solar cosmic-ray transport. Physica A: Statistical Mechanics and Its Applications, 2016, 447, 402-410.	2.6	11
28	From the hypergeometric differential equation to a non-linear SchrÃ¶dinger one. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2690-2693.	2.1	19
29	New Solution of Diffusionâ€“Advection Equation for Cosmic-Ray Transport Using Ultradistributions. Journal of Statistical Physics, 2015, 161, 986-1009.	1.2	4
30	The fractionary SchrÃ¶dinger equation, Green functions and ultradistributions. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 111-122.	2.6	3
31	Possible divergences in Tsallis' thermostatistics. Europhysics Letters, 2013, 104, 60003.	2.0	17
32	Inversion of Umarovâ€“Tsallisâ€“Steinbergâ€™s q-Fourier transform and the complex-plane generalization. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 4740-4747.	2.6	14
33	A direct proof of Jauregui-Tsallisâ€™ conjecture. Journal of Mathematical Physics, 2011, 52, 103503.	1.1	9
34	Convolution of Ultradistributions, Field Theory, Lorentz Invariance and Resonances. International Journal of Theoretical Physics, 2007, 46, 3030-3059.	1.2	27
35	Convolution of n-Dimensional Tempered Ultradistributions and Field Theory. International Journal of Theoretical Physics, 2004, 43, 59-76.	1.2	30
36	Convolution of Lorentz Invariant Ultradistributions and Field Theory. International Journal of Theoretical Physics, 2004, 43, 1019-1051.	1.2	26

#	Article	IF	Citations
37	Convolution of Ultradistributions and Field Theory. International Journal of Theoretical Physics, 1999, 38, 2315-2332.	1.2	35
38	Wheeler Propagator. International Journal of Theoretical Physics, 1998, 37, 2877-2893.	1.2	10
39	Lorentz-Invariant Pseudo-Differential Wave Equations. International Journal of Theoretical Physics, 1998, 37, 3015-3030.	1.2	20
40	Resonant states in the thermo field dynamics. Nuclear Physics A, 1998, 642, 531-542.	1.5	5
41	Gamow states as continuous linear functionals over analytical test functions. Journal of Mathematical Physics, 1996, 37, 4235-4242.	1.1	28
42	Physical representations of Gamow states in a rigged Hilbert space. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 382, 205-208.	4.1	19