

Nicolo Defenu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31 papers	358 citations	12 h-index	18 g-index
36 ext. papers	536 ext. citations	4.9 avg, IF	4.24 L-index

#	Paper	IF	Citations
31	Vacuum energy and renormalization of the field-independent term. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022 , 2022, 062	6.4	1
30	Local topological moves determine global diffusion properties of hyperbolic higher-order networks.. <i>Physical Review E</i> , 2021 , 104, 054302	2.4	4
29	Berezinskii-Kosterlitz-Thouless Phase Transitions with Long-Range Couplings. <i>Physical Review Letters</i> , 2021 , 127, 156801	7.4	2
28	Self-consistent harmonic approximation in presence of non-local couplings(a). <i>Europhysics Letters</i> , 2021 , 133, 57004	1.6	2
27	Topological phase transitions in four dimensions. <i>Nuclear Physics B</i> , 2021 , 964, 115295	2.8	3
26	Complex networks with tuneable spectral dimension as a universality playground. <i>Physical Review Research</i> , 2021 , 3,	3.9	4
25	Effects of energy extensivity on the quantum phases of long-range interacting systems. <i>Physical Review B</i> , 2021 , 103,	3.3	1
24	Dynamical quantum phase transition in a bosonic system with long-range interactions. <i>Physical Review B</i> , 2021 , 103,	3.3	2
23	Interplay of spin waves and vortices in the two-dimensional XY model at small vortex-core energy. <i>Physical Review B</i> , 2020 , 102,	3.3	4
22	Out-of-equilibrium phase diagram of long-range superconductors. <i>Physical Review B</i> , 2020 , 101,	3.3	11
21	Detecting composite orders in layered models via machine learning. <i>New Journal of Physics</i> , 2020 , 22, 093026	2.9	3
20	Criticality of spin systems with weak long-range interactions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020 , 53, 143001	2	12
19	Renormalization-group running induced cosmic inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020 , 2020, 028-028	6.4	2
18	Dynamical criticality and domain-wall coupling in long-range Hamiltonians. <i>Physical Review B</i> , 2019 , 100,	3.3	18
17	Berezinskii-Kosterlitz-Thouless Paired Phase in Coupled XY Models. <i>Physical Review Letters</i> , 2019 , 123, 100601	7.4	4
16	Pseudo-periodic natural Higgs inflation. <i>Nuclear Physics B</i> , 2019 , 945, 114642	2.8	1
15	High-Contrast Interference of Ultracold Fermions. <i>Physical Review Letters</i> , 2019 , 122, 143602	7.4	9

14	Berezinskii-Kosterlitz-Thouless transition and criticality of an elliptic deformation of the sine-Gordon model. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019 , 52, 345002	2	1
13	Quantum scale anomaly and spatial coherence in a 2D Fermi superfluid. <i>Science</i> , 2019 , 365, 268-272	33.3	19
12	Coupled superfluidity of binary Bose mixtures in two dimensions. <i>Physical Review A</i> , 2019 , 99,	2.6	11
11	Universal dynamical scaling of long-range topological superconductors. <i>Physical Review B</i> , 2019 , 100,	3.3	5
10	Scaling solutions in the derivative expansion. <i>Physical Review D</i> , 2018 , 98,	4.9	10
9	Dynamical Critical Scaling of Long-Range Interacting Quantum Magnets. <i>Physical Review Letters</i> , 2018 , 121, 240403	7.4	26
8	Criticality and phase diagram of quantum long-range $O(N)$ models. <i>Physical Review B</i> , 2017 , 96,	3.3	40
7	One-dimensional long-range percolation: A numerical study. <i>Physical Review E</i> , 2017 , 96, 012108	2.4	21
6	Nonperturbative renormalization group treatment of amplitude fluctuations for $U(1)$ topological phase transitions. <i>Physical Review B</i> , 2017 , 96,	3.3	15
5	Anisotropic long-range spin systems. <i>Physical Review B</i> , 2016 , 94,	3.3	24
4	c -function and central charge of the sine-Gordon model from the non-perturbative renormalization group flow. <i>Nuclear Physics B</i> , 2015 , 901, 444-460	2.8	12
3	Critical exponents of $O(N)$ models in fractional dimensions. <i>Physical Review D</i> , 2015 , 91,	4.9	32
2	Fixed-point structure and effective fractional dimensionality for $O(N)$ models with long-range interactions. <i>Physical Review E</i> , 2015 , 92, 052113	2.4	41
1	Truncation effects in the functional renormalization group study of spontaneous symmetry breaking. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	16