Jean-Yves Fortin

List of Publications by Year
in descending order

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53	479	840776 11	713466 21
papers	citations	h-index	g-index

54	54	54	318
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Induced Random Fields in theLiHoxY1â^'xF4Quantum Ising Magnet in a Transverse Magnetic Field. Physical Review Letters, 2006, 97, 237203.	7.8	65
2	Frequency Mixing of Magnetic Oscillations: Beyond Falicov-Stachowiak Theory. Physical Review Letters, 1998, 80, 3117-3120.	7.8	49
3	Applications of extreme value statistics in physics. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 183001.	2.1	45
4	Criterion for universality-class-independent critical fluctuations: Example of the two-dimensional Ising model. Physical Review E, 2004, 70, 046112.	2.1	33
5	How skew distributions emerge in evolving systems. Europhysics Letters, 2009, 85, 30006.	2.0	25
6	Quantum oscillations in the linear chain of coupled orbits: The organic metal with two cation layers Î¸-(ET) ₄ CoBr ₄ (C ₆ H ₄ Cl ₂). Europhysics Letters, 2012, 97, 57003.	2.0	23
7	Analytical treatment of the de Haasâ€“van Alphen frequency combination due to chemical potential oscillations in an idealized two-band Fermi liquid. Physical Review B, 2005, 71, .	3.2	22
8	Emergence of Criticality in the Transportation Passenger Flow: Scaling and Renormalization in the Seoul Bus System. PLoS ONE, 2014, 9, e89980.	2.5	18
9	Weibull-type limiting distribution for replicative systems. Physical Review E, 2011, 83, 031123.	2.1	16
10	de Haasâ€“van Alphen oscillations and magnetic breakdown:â€ƒSemiclassical calculation of multiband orbits. Physical Review B, 1998, 57, 1484-1497.	3.2	12
11	Exact two-time correlation and response functions in the one-dimensional coagulationâ€“diffusion process by the empty-interval method. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P02030.	2.3	12
12	Damping of field-induced chemical potential oscillations in ideal two-band compensated metals. Physical Review B, 2008, 77, .	3.2	11
13	Random walks and magnetic oscillations in compensated metals. Physical Review B, 2009, 80, .	3.2	11
14	Origin of the approximate universality of distributions in equilibrium correlated systems. Europhysics Letters, 2006, 76, 1008-1014.	2.0	10
15	Alternative description of the 2D Blumeâ€“Capel model using Grassmann algebra. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 405004.	2.1	10
16	Exact correlations in the one-dimensional coagulationâ€“diffusion process investigated by the empty-interval method. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P04002.	2.3	10
17	Onsager phase factor of quantum oscillations in the organic metal Î¸-(BEDT-TTF)4CoBr4(C6H4Cl2). Synthetic Metals, 2013, 171, 51-55.	3.9	8
18	Organic conductors in high magnetic fields: Model systems for quantum oscillation physics. Comptes Rendus Physique, 2013, 14, 15-26.	0.9	7

#	Article	IF	Citations
19	Grassmannian representation of the two-dimensional monomer-dimer model. Physical Review E, 2014, 89, 062107.	2.1	7
20	Effect of electronic band dispersion curvature on de Haas-van Alphen oscillations. European Physical Journal B, 2015, 88, 1.	1.5	7
21	Asymptotic behaviour of the density of states on a random lattice. Journal of Physics A, 2005, 38, L57-L65.	1.6	6
22	Random site dilution properties of frustrated magnets on a hierarchical lattice. Journal of Physics Condensed Matter, 2013, 25, 296004.	1.8	6
23	1D action and partition function for the 2D Ising model with a boundary magnetic field. Journal of Physics A, 2005, 38, 2849-2871.	1.6	5
24	Boundary field induced first-order transition in the 2D Ising model: exact study. Journal of Physics A, 2006, 39, 995-1007.	1.6	5
25	Dynamics of interval fragmentation and asymptotic distributions. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 225002.	2.1	5
26	Recent developments in the determination of the amplitude and phase of quantum oscillations for the linear chain of coupled orbits. Low Temperature Physics, 2014, 40, 344-351.	0.6	5
27	Non-Lifshitzâ€“Kosevich field- and temperature-dependent amplitude of quantum oscillations in the quasi-two dimensional metal Î¸-(ET)₄ZnBr₄(C₆H₄Cl₂). Journal of Physics Condensed Matter, 2015, 27, 315601.	1.8	5
28	Does Fourier analysis yield reliable amplitudes of quantum oscillations?. EPJ Applied Physics, 2018, 83, 30201.	0.7	5
29	Fortin and Ziman Reply:. Physical Review Letters, 1999, 82, 4149-4149.	7.8	4
30	Transmission and tunneling probability in two-band metals: Influence of magnetic breakdown on the Onsager phase of quantum oscillations. Low Temperature Physics, 2017, 43, 173-185.	0.6	4
31	Crossover properties of a one-dimensional reaction-diffusion process with a transport current. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P09033.	2.3	3
32	New insights on frequency combinations and â€˜forbidden frequenciesâ€™ in the de Haasâ€“van Alphen spectrum ofÎº-(ET)₂Cu(SCN)₂. Journal of Physics Condensed Matter, 2016, 28, 275702.	1.8	3
33	Phase transitions and relaxation dynamics of Ising models exchanging particles. Physica A: Statistical Mechanics and Its Applications, 2017, 466, 166-179.	2.6	3
34	Unjamming in Dry Granular Matter: Second-Order Phase Transition between Fragile Solid and Dry Fluid (Bearing) by Intermittency.. Solid State Phenomena, 0, 172-174, 1106-1111.	0.3	2
35	Nature of the global fluctuations in the spherical model at criticality. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 475001.	2.1	2
36	De Haas-van Alphen oscillations in the compensated organic metal Î±-â€µpseudo-Îºâ€²-(ET)4H3O[Fe(C2O4)3]Ã·(C6H4Br2). European Physical Journal B, 2014, 87, 1.	1.5	2

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37	Quantum oscillations in coupled orbits networks of (BEDT-TTF) salts with tris(oxalato)metallate anions. Low Temperature Physics, 2017, 43, 27-33.	0.6	2
38	Reactionâ€“diffusion on the fully-connected lattice: $A+Aightarrow A$. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 145001.	2.1	2
39	Magnetic oscillations and frequency mixing in a two-band conductor. Physica B: Condensed Matter, 2004, 346-347, 373-376.	2.7	1
40	Boundary crossover in semi-infinite non-equilibrium growth processes. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P02018.	2.3	1
41	Quantum oscillations of a linear chain of coupled orbits with small effective masses: The organic metal Î¸-(BETS) 4 CoBr 4 (C 6 H 4 Cl 2). Synthetic Metals, 2017, 226, 171-176.	3.9	1
42	de Haas-van Alphen oscillations with non-parabolic dispersions. European Physical Journal B, 2017, 90, 1.	1.5	1
43	Modified stochastic fragmentation of an interval as an ageing process. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 023210.	2.3	1
44	Density distribution in two Ising systems with particle exchange. European Physical Journal B, 2018, 91, 1.	1.5	1
45	Critical properties of cluster size distribution in an asymmetric diffusion-aggregation model. Physical Review E, 2019, 100, 052108.	2.1	1
46	Singular self-energy for itinerant electrons in a dilute Ising spin bath. Journal of Physics Condensed Matter, 2021, 33, 085602.	1.8	1
47	Magnetic oscillation and breakdown in the organic conductors. Synthetic Metals, 1999, 103, 1929-1932.	3.9	0
48	Reply to the Comment by A. Gadomski. Europhysics Letters, 2010, 89, 40003.	2.0	0
49	Grand canonical description of equilibrium and non-equilibrium systems using spin formalism. Physica A: Statistical Mechanics and Its Applications, 2020, 558, 124983.	2.6	0
50	Charge Oscillations in a Simple Model of Interacting Magnetic Orbits. Journal of Experimental and Theoretical Physics, 2020, 130, 886-894.	0.9	0
51	Limited coagulation-diffusion dynamics in inflating spaces. European Physical Journal B, 2020, 93, 1.	1.5	0
52	Itinerant fermions on dilute frustrated Ising lattices. European Physical Journal B, 2021, 94, 1.	1.5	0
53	Distribution of the coalescence times in a system of diffusion-aggregation of particle clusters in one dimension. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 505004.	2.1	0