

Luis Mario Floria

List of Publications by Year in descending order

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66
papers

3,801
citations

236925

25
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123424

61
g-index

66
all docs

66
docs citations

66
times ranked

2073
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolutionary dynamics of group interactions on structured populations: a review. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120997.	3.4	1,023
2	Dynamical Organization of Cooperation in Complex Topologies. <i>Physical Review Letters</i> , 2007, 98, 108103.	7.8	462
3	Evolution of Cooperation in Multiplex Networks. <i>Scientific Reports</i> , 2012, 2, 620.	3.3	355
4	Dissipative dynamics of the Frenkel-Kontorova model. <i>Advances in Physics</i> , 1996, 45, 505-598.	14.4	214
5	Complex Cooperative Networks from Evolutionary Preferential Attachment. <i>PLoS ONE</i> , 2008, 3, e2449.	2.5	166
6	Robustness of cooperation in the evolutionary prisoner's dilemma on complex networks. <i>New Journal of Physics</i> , 2007, 9, 184-184.	2.9	149
7	Evolutionary dynamics on interdependent populations. <i>Physical Review E</i> , 2012, 86, 056113.	2.1	104
8	Social network reciprocity as a phase transition in evolutionary cooperation. <i>Physical Review E</i> , 2009, 79, 026106.	2.1	71
9	Discrete breathers in dissipative lattices. <i>Physical Review E</i> , 2001, 63, 066603.	2.1	68
10	Intrinsic localisation in the dynamics of a Josephson-junction ladder. <i>Europhysics Letters</i> , 1996, 36, 539-544.	2.0	66
11	Intrinsic localized modes: Discrete breathers. Existence and linear stability. <i>Physica D: Nonlinear Phenomena</i> , 1998, 113, 283-292.	2.8	66
12	The Ultimatum Game in complex networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P09012.	2.3	61
13	Cooperative scale-free networks despite the presence of defector hubs. <i>Europhysics Letters</i> , 2009, 88, 38003.	2.0	59
14	Empathy Emerges Spontaneously in the Ultimatum Game: Small Groups and Networks. <i>PLoS ONE</i> , 2012, 7, e43781.	2.5	59
15	Natural selection of cooperation and degree hierarchy in heterogeneous populations. <i>Journal of Theoretical Biology</i> , 2008, 253, 296-301.	1.7	53
16	Shapiro steps in the steady-state dynamics of incommensurate structures. <i>Physical Review Letters</i> , 1992, 68, 2713-2717.	7.8	46
17	Unlocking mechanism in the ac dynamics of the Frenkel-Kontorova model. <i>Physical Review B</i> , 1993, 48, 7434-7437.	3.2	40
18	Dissipative discrete breathers: Periodic, quasiperiodic, chaotic, and mobile. <i>Chaos</i> , 2003, 13, 610-623.	2.5	39

#	ARTICLE	IF	CITATIONS
19	Mirror symmetry breaking through an internal degree of freedom leading to directional motion. <i>Physical Review E</i> , 2001, 63, 031110.	2.1	38
20	Rich do not rise early: spatio-temporal patterns in the mobility networks of different socio-economic classes. <i>Royal Society Open Science</i> , 2016, 3, 150654.	2.4	38
21	Solitons in the Salerno model with competing nonlinearities. <i>Physical Review E</i> , 2006, 73, 036608.	2.1	37
22	Residential segregation and cultural dissemination: An Axelrod-Schelling model. <i>Physical Review E</i> , 2009, 80, 046123.	2.1	37
23	Nonintegrable Schrödinger discrete breathers. <i>Chaos</i> , 2004, 14, 1130-1147.	2.5	33
24	Mobile localization in nonlinear Schrödinger lattices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 332, 213-219.	2.1	33
25	Josephson junction ladders: Ground state and relaxation phenomena. <i>Physical Review B</i> , 1995, 52, 10433-10440.	3.2	30
26	Projected spin wave theory. I. Diagrammatic evaluation of the kinematical interaction. <i>Journal of Physics C: Solid State Physics</i> , 1985, 18, 6247-6258.	1.5	25
27	Numerical procedure for solving a minimization eigenvalue problem. <i>Numerische Mathematik</i> , 1989, 55, 565-574.	1.9	25
28	Intrinsically localized chaos in discrete nonlinear extended systems. <i>Europhysics Letters</i> , 1999, 45, 444-449.	2.0	24
29	Spreading of persistent infections in heterogeneous populations. <i>Physical Review E</i> , 2010, 81, 056108.	2.1	22
30	Coevolutionary network approach to cultural dynamics controlled by intolerance. <i>Physical Review E</i> , 2011, 84, 067101.	2.1	22
31	Mode-locking of mobile discrete breathers. <i>Physical Review E</i> , 2005, 71, 036613.	2.1	20
32	Discrete solitons and vortices in the two-dimensional Salerno model with competing nonlinearities. <i>Physical Review E</i> , 2006, 74, 036607.	2.1	19
33	Intergroup information exchange drives cooperation in the public goods game. <i>Physical Review E</i> , 2014, 90, 042808.	2.1	19
34	COOPERATION IN THE PRISONER'S DILEMMA GAME IN RANDOM SCALE-FREE GRAPHS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010, 20, 849-857.	1.7	18
35	Symmetry-breaking commensurate states in generalised Frenkel-Kontorova models. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 2179-2198.	1.8	17
36	Discrete breathers in two-dimensional anisotropic nonlinear Schrödinger lattices. <i>Physica D: Nonlinear Phenomena</i> , 2006, 216, 31-43.	2.8	17

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37	Selective advantage of tolerant cultural traits in the Axelrod-Schelling model. <i>Physical Review E</i> , 2011, 83, 056103.	2.1	17
38	Josephson-junction ladder: A benchmark for nonlinear concepts. <i>Physica D: Nonlinear Phenomena</i> , 1998, 113, 387-396.	2.8	16
39	A magnetic Kosterlitz-Thouless transition in quasi 2-d MnRhAs?. <i>Journal of Magnetism and Magnetic Materials</i> , 1986, 54-57, 1547-1548.	2.3	15
40	On the robustness of complex heterogeneous gene expression networks. <i>Biophysical Chemistry</i> , 2005, 115, 225-228.	2.8	15
41	Cognitive Hierarchy Theory and Two-Person Games. <i>Games</i> , 2017, 8, 1.	0.6	14
42	Possible soliton motion in ac-driven damped nonlinear lattices. <i>Physical Review B</i> , 1994, 50, 9652-9655.	3.2	12
43	Stability of metastable structures in dissipative ac dynamics of the Frenkel-Kontorova model. <i>Physical Review B</i> , 1995, 52, 6451-6457.	3.2	12
44	Mode locking in discrete soliton dynamics under ac forces. <i>Physical Review B</i> , 1997, 56, 87-90.	3.2	12
45	Floquet stability of discrete breathers in anisotropic Josephson junction ladders. <i>Physica D: Nonlinear Phenomena</i> , 1998, 119, 175-183.	2.8	12
46	XY antiferromagnetic ordering in $\text{CoCl}_2 \cdot 2(\text{pyrazine})$ and $\text{CoBr}_2 \cdot 2(\text{pyrazine})$. <i>Physical Review B</i> , 1985, 32, 7476-7482.	3.2	11
47	Cooperation in changing environments: Irreversibility in the transition to cooperation in complex networks. <i>Chaos, Solitons and Fractals</i> , 2013, 56, 188-193.	5.1	11
48	Internal degrees of freedom in a thermodynamical model for intracellular biological transport. <i>Physica D: Nonlinear Phenomena</i> , 1998, 113, 157-161.	2.8	9
49	Application of the method of effective potentials to a model for twinning in elastic materials. <i>Physical Review B</i> , 1988, 38, 12054-12057.	3.2	8
50	Anisotropy in the diamagnetic properties of oriented $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ polycrystalline fibers. <i>Solid State Communications</i> , 1989, 72, 1003-1008.	1.9	8
51	Bound states of breathers in the Frenkel-Kontorova model. <i>European Physical Journal B</i> , 2003, 37, 213-221.	1.5	8
52	Transport of modulated phases by pumping. <i>Europhysics Letters</i> , 2002, 60, 174-180.	2.0	7
53	Scale-free topologies and activatory-inhibitory interactions. <i>Chaos</i> , 2006, 16, 015114.	2.5	7
54	Large-scale flow in competing-interaction systems. <i>Physical Review B</i> , 1990, 41, 6703-6707.	3.2	6

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55	Monte Carlo simulations of finite-size effects in Kosterlitz Thouless systems. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 5139-5150.	1.8	5
56	Michaelis-Menten dynamics in complex heterogeneous networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 352, 265-281.	2.6	5
57	Directed transport of modulated structures in the Frenkel-Kontorova model with a pulsating coupling. <i>Physica D: Nonlinear Phenomena</i> , 2004, 187, 100-107.	2.8	4
58	Phase diagram of a three-dimensional anisotropic long-range Ising model versus temperature and magnetic field. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 5921-5946.	1.8	3
59	Replicator population dynamics of group interactions: Broken symmetry, thresholds for metastability, and macroscopic behavior. <i>Physical Review E</i> , 2019, 100, 052307.	2.1	3
60	Projected spin wave theory. II. Ground state properties of $S=1/2$ Heisenberg antiferromagnets. <i>Journal of Physics C: Solid State Physics</i> , 1985, 18, 6259-6271.	1.5	2
61	DYNAMICS OF PERSISTENT INFECTIONS IN HOMOGENEOUS POPULATIONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012, 22, 1250164.	1.7	2
62	The effects of kinematical interaction on magnon renormalisation in Heisenberg antiferromagnets. <i>Journal of Physics C: Solid State Physics</i> , 1986, 19, 2231-2239.	1.5	1
63	Exact solution of the one-dimensional J_2 model of superconducting networks in a magnetic field. <i>Physical Review B</i> , 1992, 45, 9887-9893.	3.2	1
64	Projected spin wave theory: the Heisenberg anisotropic model. <i>Journal of Physics C: Solid State Physics</i> , 1988, 21, 445-460.	1.5	0
65	Ground state of a lattice in an incommensurate potential. <i>Ferroelectrics</i> , 1992, 125, 239-244.	0.6	0
66	Anisotropic long-range Ising model in a magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 1992, 104-107, 199-200.	2.3	0