Luis Benet

List of Publications by Year
in descending order

44 papers	478 citations	759233 12 h-index	752698 20 g-index
44 all docs	44 docs citations	44 times ranked	206 citing authors

#	Article	IF	Citations
1	Spectra, eigenstates and transport properties of a PT -symmetric ring. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 015304.	2.1	3
2	Non-zero Yarkovsky acceleration for near-Earth asteroid (99942) Apophis. Communications Earth & Environment, 2022, 3, .	6.8	6
3	Using posterior predictive distributions to analyse epidemic models: COVID-19 in Mexico City. Physical Biology, 2020, 17, 065001.	1.8	21
4	Spectral and transport properties of a $mathcal{P}mathcal{T}$-symmetric tight-binding chain with gain and loss. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 445308.	2.1	6
5	On the dynamics of Comet 1P/Halley: Lyapunov and power spectra. Monthly Notices of the Royal Astronomical Society, 2019, 487, 296-303.	4.4	4
6	Two-particle quantum correlations in stochastically-coupled networks. New Journal of Physics, 2019, 21, 053041.	2.9	2
7	TaylorSeries.jl: Taylor expansions in one and several variables in Julia. Journal of Open Source Software, 2019, 4, 1043.	4.6	11
8	Robustness of optimal transport in disordered interacting many-body networks. Physical Review E, 2018, 98, 012141.	2.1	8
9	A simple model for the location of Saturnâ€™s F ring. Icarus, 2017, 285, 224-236.	2.5	1
10	Probing two-particle exchange processes in two-mode Bose-Einstein condensates. Physical Review A, 2017, 95, .	2.5	0
11	Efficient quantum transport in disordered interacting many-body networks. Physical Review E, 2016, 94, 042102.	2.1	19
12	Quantum efficiencies in finite disordered networks connected by manyâ€body interactions. Annalen Der Physik, 2015, 527, 748-756.	2.4	17
13	Spectral domain of large nonsymmetric correlated Wishart matrices. Physical Review E, 2014, 90, 042109.	2.1	9
14	Numerical Results on a Simple Model for the Confinement of Saturnâ€™s F Ring. Springer Proceedings in Mathematics and Statistics, 2013, , 65-75.	0.2	1
15	Statistics and universality in simplified models of planetary formation. Monthly Notices of the Royal Astronomical Society, 2011, 412, 95-106.	4.4	25
16	Fidelity decay in interacting two-level boson systems: Freezing and revivals. Physical Review E, 2011, 83, 056216.	2.1	6
17	Fidelity decay of the two-level bosonic embedded ensembles of random matrices. , 2010, , .		1
18	Nearest-neighbor distributions and tunneling splittings in interacting many-body two-level boson systems. Physical Review E, 2010, 81, 036218.	2.1	6

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19	Phase-space volume of regions of trapped motion: multiple ring components and arcs. Celestial Mechanics and Dynamical Astronomy, 2009, 103, 209-225.	1.4	4
20	Slow cross-symmetry phase relaxation in complex collisions. Physics of Atomic Nuclei, 2008, 71, 819-823.	0.4	0
21	Scattering off an oscillating target: Basic mechanisms and their impact on cross sections. Physical Review E, 2008, 78, 056207.	2.1	1
22	Quantum-classical transition for an analog of the double-slit experiment in complex collisions: Dynamical decoherence in quantum many-body systems. Physical Review A, 2007, 75, .	2.5	1
23	Thermalized non-equilibrated matter and high temperature superconducting state in quantum many-body systems. Radiation Effects and Defects in Solids, 2007, 162, 605-612.	1.2	0
24	Strands and braids in narrow planetary rings: a scattering system approach. Celestial Mechanics and Dynamical Astronomy, 2007, 97, 49-72.	1.4	8
25	Symmetry breaking: A heuristic approach to chaotic scattering in many dimensions. Physical Review E, 2005, 71, 036225.	2.1	13
26	Scattering off two oscillating disks: Dilute chaos. Physical Review E, 2004, 70, 056215.	2.1	10
27	Title is missing!. Regular and Chaotic Dynamics, 2004, 9, 373.	0.8	5
28	Wigner-Dyson statistics for a class of integrable models. Physical Review E, 2003, 68, 045201.	2.1	15
29	Spectral Properties of the k-Body Embedded Gaussian Ensembles of Random Matrices for Bosons. Annals of Physics, 2002, 298, 229-247.	2.8	42
30	Classical scattering from oscillating targets. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 306, 116-126.	2.1	10
31	Spectral Properties of the k-Body Embedded Gaussian Ensembles of Random Matrices. Annals of Physics, 2001, 292, 67-94.	2.8	61
32	Occurrence of Planetary Rings with Shepherds. Celestial Mechanics and Dynamical Astronomy, 2001, 81, 123-128.	1.4	4
33	Non-ergodic behaviour of the k -body embedded Gaussian random ensembles for bosons. Europhysics Letters, 2001, 56, 340-346.	2.0	34
34	PLANETARY RINGS WITH SHEPHERDS. , 2000, , .		0
35	Generic occurrence of rings in rotating systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 273, 331-337.	2.1	12
36	Semiclassical properties of eigenfunctions and occupation number distribution for a model of two interacting particles. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 277, 87-93.	2.1	22

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37	Narrow Rings: A Scattering Billiard Model. Progress of Theoretical Physics Supplement, 2000, 139, 234-245.	0.1	3
38	On the special role of symmetric periodic orbits in a chaotic system. Physica D: Nonlinear Phenomena, 1999, 131, 254-264.	2.8	6
39	Chaotic Scattering in the Restricted Threeâ€Body Problem II. Small mass parameters. Celestial Mechanics and Dynamical Astronomy, 1998, 71, 167-189.	1.4	37
40	Quantum signatures of classical chaos: Sensitivity of wave functions to perturbations. Physical Review Letters, 1993, 71, 529-532.	7.8	28
41	ARCH-COMP19 Category Report: Continuous and Hybrid Systems with Nonlinear Dynamics. , 0, , .		3
42	ARCH-COMP20 Category Report: Continuous and Hybrid Systems with Nonlinear Dynamics. , 0, , .		4
43	ARCH-COMP21 Category Report: Continuous and Hybrid Systems with Nonlinear Dynamics. , 0, , .		2
44	ARCH-COMP21 Category Report: Artificial Intelligence and Neural Network Control Systems (AINNCS) for Continuous and Hybrid Systems Plants. , 0, , .		7