

Rodrigo Lima

List of Publications by Year in descending order

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papers

351
citations

840776

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839539

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g-index

30
all docs

30
docs citations

30
times ranked

291
citing authors

#	ARTICLE	IF	CITATIONS
1	Stable Bloch Oscillations of Cold Atoms with Time-Dependent Interaction. Physical Review Letters, 2009, 102, 255303.	7.8	39
2	Effects of UV irradiation on the wettability of chitosan films containing dansyl derivatives. Journal of Colloid and Interface Science, 2012, 376, 255-261.	9.4	35
3	Bloch-like oscillations in the Peyrard-Bishop-Holstein model. Physical Review B, 2008, 78, .	3.2	34
4	Spectroscopy of the Dirac oscillator perturbed by a surface delta potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3475-3478.	2.1	30
5	Donor-bound electrons in quantum rings under magnetic fields. Physical Review B, 2007, 76, .	3.2	26
6	Finite-size scaling of power-law bond-disordered Anderson models. Physical Review B, 2004, 69, .	3.2	21
7	A solvable model of hydrogenic impurities in quantum dots. Nanotechnology, 2008, 19, 135402.	2.6	18
8	Stability and decay of Bloch oscillations in the presence of time-dependent nonlinearity. Physical Review A, 2011, 84, .	2.5	17
9	Trapping and motion of polarons in weakly disordered DNA molecules. Journal of Physics Condensed Matter, 2009, 21, 285105.	1.8	15
10	Electronic states of on- and off-center donors in quantum rings of finite width. Journal of Luminescence, 2008, 128, 858-861.	3.1	13
11	Electronic transport on graphene armchair-edge nanoribbons with Fermi velocity and potential barriers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2416-2423.	2.1	13
12	Bose-Einstein condensation in the infinitely ramified star and wheel graphs. Physical Review E, 2011, 83, 061137.	2.1	12
13	Crossover from strong to weak exciton confinement and third-harmonic generation on one-dimensional quantum dots. Photonics and Nanostructures - Fundamentals and Applications, 2013, 11, 8-14.	2.0	12
14	Critical wave-packet dynamics in the power-law bond disordered Anderson model. Physical Review B, 2005, 71, .	3.2	11
15	Dynamics and stability of Bose-Einstein solitons in tilted optical lattices. Physical Review A, 2010, 81, .	2.5	10
16	Multifractality of one electron eigen states in 1D disordered long range models. Physica A: Statistical Mechanics and Its Applications, 2001, 295, 154-157.	2.6	9
17	Quantum percolation in power-law diluted chains. Physica A: Statistical Mechanics and Its Applications, 2001, 297, 157-163.	2.6	8
18	Wave-packet spreading dynamics under a noninstantaneous nonlinearity: Self-trapping, defocusing, and focusing. Physical Review E, 2012, 85, 057201.	2.1	5

#	ARTICLE	IF	CITATIONS
19	Interplay between modulational instability and self-trapping of wavepackets in nonlinear discrete lattices. <i>Chaos</i> , 2015, 25, 063101.	2.5	5
20	Screening effect on the exciton mediated nonlinear optical susceptibility of semiconductor quantum dots. <i>Optics Express</i> , 2014, 22, 28270.	3.4	4
21	Spontaneous decay of a two-level system close to a perfectly reflecting sphere. <i>Annals of Physics</i> , 2017, 378, 162-170.	2.8	3
22	One-magnon excitations in Heisenberg ferromagnetic chains with power-law decaying random interactions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 320, 398-406.	2.6	2
23	Conductance and Thermopower of a Quantum Dot with Fano-Rashba Effect. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 2209-2212.	1.8	2
24	Sensitivity to initial conditions of the self-trapping transition in C60 buckyballs with relaxing nonlinearity. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 30, 101-107.	3.3	2
25	Fano-Rashba effect and enhancement of figure of merit and violation of Wiedemann-Franz law. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 114, 113618.	2.7	2
26	Electron pairing in periodic potentials under an external electric field. <i>Physical Review B</i> , 2013, 87, .	3.2	1
27	Stability of uniform electronic wavepackets in chains and fullerenes. <i>International Journal of Modern Physics C</i> , 2015, 26, 1550133.	1.7	1
28	Spontaneous Radiation of a Two-Level System Confined in a Reflective Spherical Shell Quantum Dot. <i>Brazilian Journal of Physics</i> , 2019, 49, 423-431.	1.4	1
29	Gated-controlled electron pumping in connected quantum rings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 2545-2548.	2.1	0
30	Wavepacket delocalization, self-trapping and fragmentation in discrete chains with relaxing nonlinearity. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 44, 159-166.	3.3	0