

Francisco A B F De Moura

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.

113
papers

1,928
citations

21
h-index

40
g-index

116
ext. papers

2,056
ext. citations

2.7
avg, IF

4.87
L-index

#	Paper	IF	Citations
113	Evolution of SARS-CoV-2 in the state of Alagoas-Brazil via an adaptive SIR model. <i>International Journal of Modern Physics C</i> , 2021 , 32, 2150040	1.1	
112	Localization properties of a discrete-time 1D quantum walk with generalized exponential correlated disorder. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021 , 394, 127196 ^{2,3}		
111	Adaptive SIR model for propagation of SARS-CoV-2 in Brazil. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021 , 569, 125773	3.3	8
110	Wave-Packet Dynamics in Chains with Disorder-Type Ornstein-Uhlenbeck and Static Electric Field. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 2000096	1.3	
109	The self-trapping transition of one-magnon excitations coupled to acoustic phonons. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 506, 166798	2.8	1
108	Emergent nonlinear phenomena in discrete-time quantum walks. <i>Physical Review A</i> , 2020 , 101,	2.6	3
107	Electronic Dynamics in 2D Aperiodic Systems under Effect of Electric Field. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900782	1.3	
106	Rabi-like quantum communication in an aperiodic spin-1/2 chain. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 505, 166730	2.8	
105	Delocalization and energy dynamics in a one-dimensional disordered nonlinear lattice. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 560, 125126	3.3	
104	Propagation of vibrational modes in classical harmonic lattice with correlated disorder. <i>Anais Da Academia Brasileira De Ciencias</i> , 2019 , 91, e20180114	1.4	
103	Transmission of quantum states through disordered channels with dimerized defects. <i>Quantum Information Processing</i> , 2019 , 18, 1	1.6	1
102	Quantum communication through chains with diluted disorder. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 1845-1849	2.3	3
101	Robust entanglement transfer through a disordered qubit ladder. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 125847	2.3	3
100	Localization-delocalization transition in discrete-time quantum walks with long-range correlated disorder. <i>Physical Review E</i> , 2019 , 99, 022117	2.4	6
99	Entanglement generation between distant parties via disordered spin chains. <i>Quantum Information Processing</i> , 2019 , 18, 1	1.6	2
98	Nonlinear wave-packet dynamics resonantly driven by AC and DC fields. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018 , 64, 89-97	3.7	3
97	Quantum-state transfer through long-range correlated disordered channels. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 1335-1340	2.3	12

96	Sub-diffusive spreading and anomalous localization in a 2D Anderson model with off-diagonal nonlinearity. <i>Solid State Communications</i> , 2018 , 270, 6-11	1.6	4
95	Wave-Packet Dynamics in Nonlinear Disordered Chains under the Effect of Acoustic Waves. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1800242	1.3	0
94	Localization properties and high-fidelity state transfer in hopping models with correlated disorder. <i>Annals of Physics</i> , 2018 , 398, 180-189	2.5	8
93	Optical absorption and delocalization in a quaternary tight-binding chain with correlated disorder. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017 , 486, 895-900	3.3	3
92	Energy Propagation in Classical Harmonic Lattices with Diluted Disorder. <i>Brazilian Journal of Physics</i> , 2017 , 47, 583-588	1.2	
91	One-electron propagation in Fermi, Pasta, Ulam disordered chains with Gaussian acoustic pulse pumping. <i>International Journal of Modern Physics C</i> , 2017 , 28, 1750100	1.1	1
90	Disorder-assisted distribution of entanglement in XY spin chains. <i>Physical Review A</i> , 2017 , 96,	2.6	22
89	Dynamics of interacting electrons under effect of a Morse potential. <i>Physical Review E</i> , 2017 , 95, 052217	2.4	3
88	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	3.7	
87	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	3.7	2
86	Quantum entanglement and drifting generated by an ac field resonant with frequency-doubled Bloch oscillations of correlated particles. <i>Physical Review A</i> , 2016 , 93,	2.6	5
85	Charge transport properties of a twisted DNA molecule: A renormalization approach. <i>Chemical Physics</i> , 2016 , 478, 48-54	2.3	4
84	Electronic transport in disordered chains mediated by interactions with acoustic waves. <i>Solid State Communications</i> , 2016 , 229, 22-27	1.6	6
83	Wave packet dynamics under effect of a pulsed electric field. <i>Solid State Communications</i> , 2016 , 236, 12-16	1.6	1
82	Electronic dynamics under effect of a nonlinear Morse interaction and a static electric field. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016 , 40, 6-14	3.7	4
81	Coherent magnon dynamics in ferromagnetic models with nonuniform magnetic field and correlated disorder. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 410, 165-170	2.8	2
80	Methylation effect on the ohmic resistance of a poly-GC DNA-like chain. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 3559-3563	2.3	2
79	Influence of lattice vibrations on the field driven electronic transport in chains with correlated disorder. <i>Solid State Communications</i> , 2016 , 248, 123-128	1.6	2

78	Electronic transport in disordered chains with saturable nonlinearity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015 , 435, 15-21	3.3	4
77	Enhanced localization, energy anomalous diffusion and resonant mode in harmonic chains with correlated mass-spring disorder. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 175401	1.8	1
76	Electronic transport in methylated fragments of DNA. <i>Applied Physics Letters</i> , 2015 , 107, 203701	3.4	7
75	Stability of uniform electronic wavepackets in chains and fullerenes. <i>International Journal of Modern Physics C</i> , 2015 , 26, 1550133	1.1	1
74	Sub-diffusive electronic transport in a DNA single-strand chain with electron-phonon coupling. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 035104	1.8	3
73	Delocalized Vibrational Modes in Disordered Harmonic Chains with Correlated Spring Constants. <i>Acta Physica Polonica B</i> , 2015 , 46, 1247	1.9	3
72	DNA-based nanobiostructured devices: The role of quasiperiodicity and correlation effects. <i>Physics Reports</i> , 2014 , 535, 139-209	27.7	71
71	Absorption spectra and localization aspects of a one-dimensional model with stretched exponential correlated disorder. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014 , 413, 31-41	3.3	2
70	Electron-soliton dynamics in chains with cubic nonlinearity. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 415401	1.8	7
69	Wavepacket dynamics of coupled particles in aperiodic chains: Weakening of Anderson localization and local field effects. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014 , 395, 22-30	3.3	1
68	ABSORPTION SPECTRA AND LEVEL SPACING STATISTICS IN A TERNARY ALLOY WITH AN ORNSTEIN-DHLENBECK DISORDER DISTRIBUTION. <i>International Journal of Modern Physics C</i> , 2014 , 25, 1350091	1.1	2
67	Bose-Einstein condensation in diamond hierarchical lattices. <i>Physical Review E</i> , 2014 , 89, 052133	2.4	11
66	Numerical evidence of electron-soliton dynamics in Fermi-Pasta-Ulam disordered chains. <i>Physica D: Nonlinear Phenomena</i> , 2013 , 253, 66-72	3.3	6
65	Critical behavior of the ideal-gas Bose-Einstein condensation in the Apollonian network. <i>Physical Review E</i> , 2013 , 88, 022139	2.4	8
64	Numerical study of the one-electron dynamics in one-dimensional systems with short-range correlated disorder. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 45, 97-102	3	21
63	ENERGY DYNAMICS IN A ONE-DIMENSIONAL APERIODIC ANHARMONIC LATTICE. <i>International Journal of Modern Physics C</i> , 2012 , 23, 1240009	1.1	4
62	Resonant localized states and quantum percolation on random chains with power-law-diluted long-range couplings. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 205401	1.8	3
61	Dynamics of one electron in a nonlinear disordered chain. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 245401	1.8	5

60	Energy transport in a one-dimensional harmonic ternary chain with Ornstein-Uhlenbeck disorder. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 495401	1.8	6
59	Self-trapping of interacting electrons in crystalline nonlinear chains. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	13
58	Extended acoustic modes in random systems with n-mer short range correlations. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 345404	1.8	3
57	Absence of localized acoustic waves in a scale-free correlated random system. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 065101	1.8	3
56	Extended acoustic waves in a one-dimensional aperiodic system. <i>European Physical Journal B</i> , 2011 , 79, 253-256	1.2	2
55	Anderson localization in a disordered chain with a finite nonlinear response time. <i>European Physical Journal B</i> , 2011 , 80, 321-324	1.2	11
54	Extended acoustic waves in diluted random systems. <i>European Physical Journal B</i> , 2011 , 80, 59-63	1.2	9
53	Electron wave packet dynamics in twisted nonlinear ladders with correlated disorder. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011 , 390, 535-540	3.3	11
52	Localization on a two-channel model with cross-correlated disorder. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 175304	1.8	6
51	Coherent electronic dynamics and absorption spectra in an one-dimensional model with long-range correlated off-diagonal disorder. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 1048-1052	2.3	15
50	Resonant states and wavepacket super-diffusion in intra-chain correlated ladders with diluted disorder. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 135303	1.8	5
49	LOCALIZATION OF ACOUSTIC WAVES IN ONE-DIMENSIONAL MODELS WITH CHAOTIC ELASTICITY. <i>International Journal of Modern Physics C</i> , 2011 , 22, 573-580	1.1	5
48	DYNAMICS OF ONE-ELECTRON IN A ONE-DIMENSIONAL SYSTEMS WITH AN APERIODIC HOPPING DISTRIBUTION. <i>International Journal of Modern Physics C</i> , 2011 , 22, 63-69	1.1	9
47	Stationary, dynamical, and spectral electronic properties of a correlated random ladder model with coexisting extended and localized states. <i>Physical Review B</i> , 2010 , 81,	3.3	17
46	Dynamics of two interacting electrons in Anderson-Hubbard chains with long-range correlated disorder: Effect of a static electric field. <i>Physical Review B</i> , 2010 , 81,	3.3	16
45	Suppression of Bose-Einstein condensation in one-dimensional scale-free random potentials. <i>Physical Review B</i> , 2010 , 82,	3.3	6
44	Effects of nonlinearity on wave-packet dynamics in square and honeycomb lattices. <i>Physical Review B</i> , 2010 , 82,	3.3	13
43	Bose-Einstein condensation in the Apollonian complex network. <i>Physical Review E</i> , 2010 , 81, 030104	2.4	22

42	Vibrational modes in a two-dimensional aperiodic harmonic lattice. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 435401	1.8	4
41	Absence of localization on the 2d model with long-range correlated off-diagonal disorder. <i>European Physical Journal B</i> , 2010 , 78, 335-339	1.2	16
40	Kosterlitz-Thouless-like transition in two-dimensional lattices with long-range correlated hopping terms. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 3572-3575	2.3	5
39	Electron self-trapping and self-focusing in periodic chains with a finite nonlinear response time. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 4152-4155	2.3	13
38	The role of Hubbard-like interaction in the dynamics of two interacting electrons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 4554-4558	2.3	18
37	Magnetocaloric effect in kinetically frustrated diamond chains. <i>Physical Review B</i> , 2009 , 79,	3.3	65
36	Free-electron gas in the Apollonian network: multifractal energy spectrum and its thermodynamic fingerprints. <i>Physical Review E</i> , 2009 , 79, 016104	2.4	34
35	Wave-packet dynamics in chains with delayed electronic nonlinear response. <i>Physical Review Letters</i> , 2009 , 103, 096401	7.4	30
34	Suppressed transmission in aperiodically modulated multilayered dielectric structures. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2009 , 7, 101-107	2.6	11
33	Delocalized 2-magnons eigenstates in long-range correlated random Heisenberg chains. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 2304-2310	2.8	4
32	Resonant scattering states in 2D nanostructured waveguides: a boundary wall approach. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 025402	1.3	10
31	Finite-size scaling and disorder effect on the transmissivity of multilayered structures with metamaterials. <i>Optics Express</i> , 2008 , 16, 6860-6	3.3	13
30	Magnetization plateau in diamond chains with delocalized interstitial spins. <i>Physical Review B</i> , 2008 , 77,	3.3	43
29	Electronic transport in poly(CG) and poly(CT) DNA segments with diluted base pairing. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 075109	1.8	12
28	Bias driven coherent carrier dynamics in a two-dimensional aperiodic potential. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 6694-6700	2.3	12
27	Extended modes and energy dynamics in two-dimensional lattices with correlated disorder. <i>European Physical Journal B</i> , 2008 , 66, 165-169	1.2	18
26	Extended spin waves in aperiodic ferromagnetic chains. <i>European Physical Journal B</i> , 2007 , 58, 389-393	1.2	10
25	Critical behavior of the two-dimensional Anderson model with long-range correlated disorder. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 476213	1.8	24

24	Coherent electron dynamics in a two-dimensional random system with mobility edges. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 056204	1.8	13
23	Frequency doubling of Bloch oscillations for interacting electrons in a static electric field. <i>Physical Review B</i> , 2007 , 76,	3.3	53
22	Scaling laws for the transmission of random binary dielectric multilayered structures. <i>Physical Review B</i> , 2007 , 76,	3.3	16
21	Vibrational modes in aperiodic one-dimensional harmonic chains. <i>Physical Review B</i> , 2006 , 73,	3.3	15
20	Electronic transport in DNA sequences: The role of correlations and inter-strand coupling. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 370, 625-631	3.3	16
19	Sensitivity to initial conditions of the wave-packet dynamics in diluted Anderson chains. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 355, 468-472	2.3	17
18	Diffusive, super-diffusive and ballistic transport in the long-range correlated 1D Anderson model. <i>Solid State Communications</i> , 2006 , 138, 585-589	1.6	6
17	Fractality of largest clusters and the percolation transition in power-law diluted chains. <i>Physical Review E</i> , 2005 , 72, 016116	2.4	4
16	Vibrational modes in harmonic chains with diluted disorder. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005 , 357, 165-172	3.3	25
15	Stochastic description of the dynamics of a random-exchange Heisenberg chain. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 339, 33-38	2.3	14
14	Critical wave-packet dynamics in the power-law bond disordered Anderson model. <i>Physical Review B</i> , 2005 , 71,	3.3	9
13	Bloch oscillations in an aperiodic one-dimensional potential. <i>Physical Review B</i> , 2005 , 71,	3.3	17
12	Localization properties of a one-dimensional tight-binding model with nonrandom long-range intersite interactions. <i>Physical Review B</i> , 2005 , 71,	3.3	38
11	Nucleotide correlations and electronic transport of DNA sequences. <i>Physical Review E</i> , 2005 , 71, 021910	2.4	64
10	Stationary and dynamical aspects of two-magnon states in disordered ferromagnetic chains. <i>Physical Review B</i> , 2005 , 72,	3.3	3
9	Delocalization and ballistic dynamics in the two-dimensional Anderson model with long-range correlated disorder. <i>Europhysics Letters</i> , 2004 , 66, 585-591	1.6	45
8	Delocalization and wave-packet dynamics in one-dimensional diluted Anderson models. <i>European Physical Journal B</i> , 2003 , 36, 81-86	1.2	31
7	Bloch-like oscillations in a one-dimensional lattice with long-range correlated disorder. <i>Physical Review Letters</i> , 2003 , 91, 197402	7.4	89

6	Delocalization in harmonic chains with long-range correlated random masses. <i>Physical Review B</i> , 2003 , 68,	3-3	63
5	Delocalization and spin-wave dynamics in ferromagnetic chains with long-range correlated random exchange. <i>Physical Review B</i> , 2002 , 66,	3-3	50
4	Convergence to the critical attractor of dissipative maps: log-periodic oscillations, fractality, and nonextensivity. <i>Physical Review E</i> , 2000 , 62, 6361-5	2-4	71
3	De moura and lyra reply:. <i>Physical Review Letters</i> , 2000 , 84, 199	7-4	39
2	Correlation-induced metal-insulator transition in the one-dimensional Anderson model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 266, 465-470	3-3	82
1	Delocalization in the 1D Anderson Model with Long-Range Correlated Disorder. <i>Physical Review Letters</i> , 1998 , 81, 3735-3738	7-4	363