

# Francisco A B F De Moura

## List of Publications by Citations

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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	Delocalization in the 1D Anderson Model with Long-Range Correlated Disorder. <i>Physical Review Letters</i> , <b>1998</b> , 81, 3735-3738	7.4	363
112	Bloch-like oscillations in a one-dimensional lattice with long-range correlated disorder. <i>Physical Review Letters</i> , <b>2003</b> , 91, 197402	7.4	89
111	Correlation-induced metal-insulator transition in the one-dimensional Anderson model. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1999</b> , 266, 465-470	3.3	82
110	DNA-based nanobiostructured devices: The role of quasiperiodicity and correlation effects. <i>Physics Reports</i> , <b>2014</b> , 535, 139-209	27.7	71
109	Convergence to the critical attractor of dissipative maps: log-periodic oscillations, fractality, and nonextensivity. <i>Physical Review E</i> , <b>2000</b> , 62, 6361-5	2.4	71
108	Magnetocaloric effect in kinetically frustrated diamond chains. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	65
107	Nucleotide correlations and electronic transport of DNA sequences. <i>Physical Review E</i> , <b>2005</b> , 71, 021910	2.4	64
106	Delocalization in harmonic chains with long-range correlated random masses. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	63
105	Frequency doubling of Bloch oscillations for interacting electrons in a static electric field. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	53
104	Delocalization and spin-wave dynamics in ferromagnetic chains with long-range correlated random exchange. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	50
103	Delocalization and ballistic dynamics in the two-dimensional Anderson model with long-range correlated disorder. <i>Europhysics Letters</i> , <b>2004</b> , 66, 585-591	1.6	45
102	Magnetization plateau in diamond chains with delocalized interstitial spins. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	43
101	De moura and lyra reply.. <i>Physical Review Letters</i> , <b>2000</b> , 84, 199	7.4	39
100	Localization properties of a one-dimensional tight-binding model with nonrandom long-range intersite interactions. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	38
99	Free-electron gas in the Apollonian network: multifractal energy spectrum and its thermodynamic fingerprints. <i>Physical Review E</i> , <b>2009</b> , 79, 016104	2.4	34
98	Delocalization and wave-packet dynamics in one-dimensional diluted Anderson models. <i>European Physical Journal B</i> , <b>2003</b> , 36, 81-86	1.2	31
97	Wave-packet dynamics in chains with delayed electronic nonlinear response. <i>Physical Review Letters</i> , <b>2009</b> , 103, 096401	7.4	30

96	Vibrational modes in harmonic chains with diluted disorder. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2005</b> , 357, 165-172	3.3	25
95	Critical behavior of the two-dimensional Anderson model with long-range correlated disorder. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 476213	1.8	24
94	Disorder-assisted distribution of entanglement in XY spin chains. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	22
93	Bose-Einstein condensation in the Apollonian complex network. <i>Physical Review E</i> , <b>2010</b> , 81, 030104	2.4	22
92	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> , <b>2012</b> , 45, 97-102	3	21
91	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> , <b>2010</b> , 374, 4554-4558	2.3	18
90	Extended modes and energy dynamics in two-dimensional lattices with correlated disorder. <i>European Physical Journal B</i> , <b>2008</b> , 66, 165-169	1.2	18
89	Stationary, dynamical, and spectral electronic properties of a correlated random ladder model with coexisting extended and localized states. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	17
88	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> , <b>2006</b> , 355, 468-472	2.3	17
87	Bloch oscillations in an aperiodic one-dimensional potential. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	17
86	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> , <b>2010</b> , 81,	3.3	16
85	Absence of localization on the 2d model with long-range correlated off-diagonal disorder. <i>European Physical Journal B</i> , <b>2010</b> , 78, 335-339	1.2	16
84	Scaling laws for the transmission of random binary dielectric multilayered structures. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	16
83	Electronic transport in DNA sequences: The role of correlations and inter-strand coupling. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2006</b> , 370, 625-631	3.3	16
82	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> , <b>2011</b> , 375, 1048-1052	2.3	15
81	Vibrational modes in aperiodic one-dimensional harmonic chains. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	15
80	Stochastic description of the dynamics of a random-exchange Heisenberg chain. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2005</b> , 339, 33-38	2.3	14
79	Self-trapping of interacting electrons in crystalline nonlinear chains. <i>European Physical Journal B</i> , <b>2012</b> , 85, 1	1.2	13

78	Effects of nonlinearity on wave-packet dynamics in square and honeycomb lattices. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	13
77	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> , <b>2010</b> , 374, 4152-4155	2.3	13
76	Finite-size scaling and disorder effect on the transmissivity of multilayered structures with metamaterials. <i>Optics Express</i> , <b>2008</b> , 16, 6860-6	3.3	13
75	Coherent electron dynamics in a two-dimensional random system with mobility edges. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 056204	1.8	13
74	Quantum-state transfer through long-range correlated disordered channels. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2018</b> , 382, 1335-1340	2.3	12
73	Electronic transport in poly(CG) and poly(CT) DNA segments with diluted base pairing. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 075109	1.8	12
72	Bias driven coherent carrier dynamics in a two-dimensional aperiodic potential. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2008</b> , 372, 6694-6700	2.3	12
71	Bose-Einstein condensation in diamond hierarchical lattices. <i>Physical Review E</i> , <b>2014</b> , 89, 052133	2.4	11
70	Anderson localization in a disordered chain with a finite nonlinear response time. <i>European Physical Journal B</i> , <b>2011</b> , 80, 321-324	1.2	11
69	Electron wave packet dynamics in twisted nonlinear ladders with correlated disorder. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2011</b> , 390, 535-540	3.3	11
68	Suppressed transmission in aperiodically modulated multilayered dielectric structures. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , <b>2009</b> , 7, 101-107	2.6	11
67	Resonant scattering states in 2D nanostructured waveguides: a boundary wall approach. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2009</b> , 42, 025402	1.3	10
66	Extended spin waves in aperiodic ferromagnetic chains. <i>European Physical Journal B</i> , <b>2007</b> , 58, 389-393	1.2	10
65	Extended acoustic waves in diluted random systems. <i>European Physical Journal B</i> , <b>2011</b> , 80, 59-63	1.2	9
64	DYNAMICS OF ONE-ELECTRON IN A ONE-DIMENSIONAL SYSTEMS WITH AN APERIODIC HOPPING DISTRIBUTION. <i>International Journal of Modern Physics C</i> , <b>2011</b> , 22, 63-69	1.1	9
63	Critical wave-packet dynamics in the power-law bond disordered Anderson model. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	9
62	Critical behavior of the ideal-gas Bose-Einstein condensation in the Apollonian network. <i>Physical Review E</i> , <b>2013</b> , 88, 022139	2.4	8
61	Adaptive SIR model for propagation of SARS-CoV-2 in Brazil. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2021</b> , 569, 125773	3.3	8

60	Localization properties and high-fidelity state transfer in hopping models with correlated disorder. <i>Annals of Physics</i> , <b>2018</b> , 398, 180-189	2.5	8
59	Electron-soliton dynamics in chains with cubic nonlinearity. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 415401	1.8	7
58	Electronic transport in methylated fragments of DNA. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 203701	3.4	7
57	Electronic transport in disordered chains mediated by interactions with acoustic waves. <i>Solid State Communications</i> , <b>2016</b> , 229, 22-27	1.6	6
56	Energy transport in a one-dimensional harmonic ternary chain with Ornstein-Uhlenbeck disorder. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 495401	1.8	6
55	Numerical evidence of electron-soliton dynamics in Fermi-Pasta-Ulam disordered chains. <i>Physica D: Nonlinear Phenomena</i> , <b>2013</b> , 253, 66-72	3.3	6
54	Suppression of Bose-Einstein condensation in one-dimensional scale-free random potentials. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	6
53	Localization on a two-channel model with cross-correlated disorder. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 175304	1.8	6
52	Diffusive, super-diffusive and ballistic transport in the long-range correlated 1D Anderson model. <i>Solid State Communications</i> , <b>2006</b> , 138, 585-589	1.6	6
51	Localization-delocalization transition in discrete-time quantum walks with long-range correlated disorder. <i>Physical Review E</i> , <b>2019</b> , 99, 022117	2.4	6
50	Quantum entanglement and drifting generated by an ac field resonant with frequency-doubled Bloch oscillations of correlated particles. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	5
49	Dynamics of one electron in a nonlinear disordered chain. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 245401	1.8	5
48	Resonant states and wavepacket super-diffusion in intra-chain correlated ladders with diluted disorder. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 135303	1.8	5
47	LOCALIZATION OF ACOUSTIC WAVES IN ONE-DIMENSIONAL MODELS WITH CHAOTIC ELASTICITY. <i>International Journal of Modern Physics C</i> , <b>2011</b> , 22, 573-580	1.1	5
46	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> , <b>2010</b> , 374, 3572-3575	2.3	5
45	Electronic transport in disordered chains with saturable nonlinearity. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2015</b> , 435, 15-21	3.3	4
44	Charge transport properties of a twisted DNA molecule: A renormalization approach. <i>Chemical Physics</i> , <b>2016</b> , 478, 48-54	2.3	4
43	ENERGY DYNAMICS IN A ONE-DIMENSIONAL APERIODIC ANHARMONIC LATTICE. <i>International Journal of Modern Physics C</i> , <b>2012</b> , 23, 1240009	1.1	4

42	Vibrational modes in a two-dimensional aperiodic harmonic lattice. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 435401	1.8	4
41	Delocalized 2-magnons eigenstates in long-range correlated random Heisenberg chains. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2009</b> , 321, 2304-2310	2.8	4
40	Fractality of largest clusters and the percolation transition in power-law diluted chains. <i>Physical Review E</i> , <b>2005</b> , 72, 016116	2.4	4
39	Electronic dynamics under effect of a nonlinear Morse interaction and a static electric field. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2016</b> , 40, 6-14	3.7	4
38	Sub-diffusive spreading and anomalous localization in a 2D Anderson model with off-diagonal nonlinearity. <i>Solid State Communications</i> , <b>2018</b> , 270, 6-11	1.6	4
37	Optical absorption and delocalization in a quaternary tight-binding chain with correlated disorder. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2017</b> , 486, 895-900	3.3	3
36	Quantum communication through chains with diluted disorder. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2019</b> , 383, 1845-1849	2.3	3
35	Emergent nonlinear phenomena in discrete-time quantum walks. <i>Physical Review A</i> , <b>2020</b> , 101,	2.6	3
34	Nonlinear wave-packet dynamics resonantly driven by AC and DC fields. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2018</b> , 64, 89-97	3.7	3
33	Robust entanglement transfer through a disordered qubit ladder. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2019</b> , 383, 125847	2.3	3
32	Dynamics of interacting electrons under effect of a Morse potential. <i>Physical Review E</i> , <b>2017</b> , 95, 052217	2.4	3
31	Sub-diffusive electronic transport in a DNA single-strand chain with electron-phonon coupling. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 035104	1.8	3
30	Resonant localized states and quantum percolation on random chains with power-law-diluted long-range couplings. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 205401	1.8	3
29	Extended acoustic modes in random systems with n-mer short range correlations. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 345404	1.8	3
28	Absence of localized acoustic waves in a scale-free correlated random system. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 065101	1.8	3
27	Stationary and dynamical aspects of two-magnon states in disordered ferromagnetic chains. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	3
26	Delocalized Vibrational Modes in Disordered Harmonic Chains with Correlated Spring Constants. <i>Acta Physica Polonica B</i> , <b>2015</b> , 46, 1247	1.9	3
25	Sensitivity to initial conditions of the self-trapping transition in C60 buckyballs with relaxing nonlinearity. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2016</b> , 30, 101-107	3.7	2

24	Absorption spectra and localization aspects of a one-dimensional model with stretched exponential correlated disorder. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2014</b> , 413, 31-41	3.3	2
23	ABSORPTION SPECTRA AND LEVEL SPACING STATISTICS IN A TERNARY ALLOY WITH AN ORNSTEIN-DHLENBECK DISORDER DISTRIBUTION. <i>International Journal of Modern Physics C</i> , <b>2014</b> , 25, 1350091	1.1	2
22	Extended acoustic waves in a one-dimensional aperiodic system. <i>European Physical Journal B</i> , <b>2011</b> , 79, 253-256	1.2	2
21	Coherent magnon dynamics in ferromagnetic models with nonuniform magnetic field and correlated disorder. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 410, 165-170	2.8	2
20	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> , <b>2016</b> , 380, 3559-3563	2.3	2
19	Influence of lattice vibrations on the field driven electronic transport in chains with correlated disorder. <i>Solid State Communications</i> , <b>2016</b> , 248, 123-128	1.6	2
18	Entanglement generation between distant parties via disordered spin chains. <i>Quantum Information Processing</i> , <b>2019</b> , 18, 1	1.6	2
17	One-electron propagation in Fermi, Pasta, Ulam disordered chains with Gaussian acoustic pulse pumping. <i>International Journal of Modern Physics C</i> , <b>2017</b> , 28, 1750100	1.1	1
16	Transmission of quantum states through disordered channels with dimerized defects. <i>Quantum Information Processing</i> , <b>2019</b> , 18, 1	1.6	1
15	Enhanced localization, energy anomalous diffusion and resonant mode in harmonic chains with correlated mass-spring disorder. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 175401	1.8	1
14	The self-trapping transition of one-magnon excitations coupled to acoustic phonons. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 506, 166798	2.8	1
13	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> , <b>2014</b> , 395, 22-30	3.3	1
12	Stability of uniform electronic wavepackets in chains and fullerenes. <i>International Journal of Modern Physics C</i> , <b>2015</b> , 26, 1550133	1.1	1
11	Wave packet dynamics under effect of a pulsed electric field. <i>Solid State Communications</i> , <b>2016</b> , 236, 12-16	1.6	1
10	Wave-Packet Dynamics in Nonlinear Disordered Chains under the Effect of Acoustic Waves. <i>Physica Status Solidi (B): Basic Research</i> , <b>2018</b> , 255, 1800242	1.3	0
9	Energy Propagation in Classical Harmonic Lattices with Diluted Disorder. <i>Brazilian Journal of Physics</i> , <b>2017</b> , 47, 583-588	1.2	
8	Propagation of vibrational modes in classical harmonic lattice with correlated disorder. <i>Anais Da Academia Brasileira De Ciencias</i> , <b>2019</b> , 91, e20180114	1.4	
7	Wave-Packet Dynamics in Chains with Disorder-Type Ornstein-Dhlenbeck and Static Electric Field. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 2000096	1.3	

- 6 Electronic Dynamics in 2D Aperiodic Systems under Effect of Electric Field. *Physica Status Solidi (B): Basic Research*, **2020**, 257, 1900782 1.3
- 5 Rabi-like quantum communication in an aperiodic spin-1/2 chain. *Journal of Magnetism and Magnetic Materials*, **2020**, 505, 166730 2.8
- 4 Wavepacket delocalization, self-trapping and fragmentation in discrete chains with relaxing nonlinearity. *Communications in Nonlinear Science and Numerical Simulation*, **2017**, 44, 159-166 3.7
- 3 Evolution of SARS-CoV-2 in the state of Alagoas-Brazil via an adaptive SIR model. *International Journal of Modern Physics C*, **2021**, 32, 2150040 1.1
- 2 Delocalization and energy dynamics in a one-dimensional disordered nonlinear lattice. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 560, 125126 3.3
- 1 Localization properties of a discrete-time 1D quantum walk with generalized exponential correlated disorder. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2021**, 394, 127196<sup>2,3</sup>