Joo Lopes dos Santos

List of Publications by Year in Descending Order

53 papers	5,285 citations	22 h-index	65 g-index
65 ext. papers	5,981 ext. citations	3 avg, IF	5.42 L-index

#	Paper	IF	Citations
53	Comment on "Jerk Current: A Novel Bulk Photovoltaic Effect". *Physical Review Letters*, **2021**, 126, 259701	7.4	1
52	A Polynomial Approach to the Spectrum of Dirac-Weyl Polygonal Billiards. *Journal of Physics Condensed Matter*, **2020**,	1.8	2
51	Theoretical calculations of nonlinear optical calculations of 2D materials. *EPJ Web of Conferences*, **2020**, 233, 03001	0.3	
50	Probing the Global Delocalization Transition in the de Moura-Lyra Model with the Kernel Polynomial Method. *EPJ Web of Conferences*, **2020**, 233, 05011	0.3	2
49	Spectral functions of one-dimensional systems with correlated disorder. *Journal of Physics Condensed Matter*, **2019**, 31, 175501	1.8	2
48	Global delocalization transition in the de Moura–Lyra model. *Physical Review B*, **2019**, 99,	3.3	2
47	Nonlinear optical responses of crystalline systems: Results from a velocity gauge analysis. *Physical Review B*, **2018**, 97,	3.3	18
46	Virtual Images: Going Through the Looking Glass. *Physics Teacher*, **2017**, 55, 52-53	0.4	
45	Gauge covariances and nonlinear optical responses. *Physical Review B*, **2017**, 96,	3.3	36
44	Addition table of colours: additive and subtractive mixtures described using a single reasoning model. *Physics Education*, **2014**, 49, 61-66	0.8	2
43	Scattering by linear defects in graphene: a tight-binding approach. *Journal of Physics Condensed Matter*, **2013**, 25, 075303	1.8	8
42	Scattering by linear defects in graphene: A continuum approach. *Physical Review B*, **2012**, 86,	3.3	19
41	Continuum model of the twisted graphene bilayer. *Physical Review B*, **2012**, 86,	3.3	317
40	Coulomb drag and high-resistivity behavior in double-layer graphene. *Europhysics Letters*, **2011**, 95, 18001	1.6	43
39	Zigzag graphene nanoribbon edge reconstruction with Stone-Wales defects. *Physical Review B*, **2011**, 84,	3.3	60
38	Electronic doping of graphene by deposited transition metal atoms. *Physical Review B*, **2011**, 84,	3.3	27
37	Observation of Van Hove singularities in twisted graphene layers. *Nature Physics*, **2010**, 6, 109-113	16.2	729

36	Substitutional disorder and charge localization in manganites. *Journal of Physics Condensed Matter*, **2010**, 22, 075601	1.8	1
35	Electronic properties of a biased graphene bilayer. *Journal of Physics Condensed Matter*, **2010**, 22, 175503	1.8	121
34	Emergence of robust gaps in two-dimensional antiferromagnets via additional spin-1/2 probes. *Physical Review A*, **2010**, 82,	2.6	3
33	Lattice Green function approach to the solution of the spectrum of an array of quantum dots and its linear conductance. *Physical Review B*, **2009**, 79,	3.3	8
32	Evolution of squeezed states under the Fock-Darwin Hamiltonian. *Physical Review A*, **2009**, 80,	2.6	6
31	Dirac electrons in graphene-based quantum wires and quantum dots. *Journal of Physics Condensed Matter*, **2009**, 21, 344202	1.8	32
30	Bilayer graphene: gap tunability and edge properties. *Journal of Physics: Conference Series*, **2008**, 129, 012002	0.3	26
29	Localized states at zigzag edges of bilayer graphene. *Physical Review Letters*, **2008**, 100, 026802	7.4	121
28	Localized states at zigzag edges of multilayer graphene and graphite steps. *Europhysics Letters*, **2008**, 84, 17001	1.6	25
27	A Time-of-Flight Method To Measure the Speed of Sound Using a Stereo Sound Card. *Physics Teacher*, **2008**, 46, 428-431	0.4	9
26	Analytic results on long-distance entanglement mediated by gapped spin chains. *Physical Review A*, **2008**, 77,	2.6	12
25	Modeling disorder in graphene. *Physical Review B*, **2008**, 77,	3.3	311
24	Graphene bilayer with a twist: electronic structure. *Physical Review Letters*, **2007**, 99, 256802	7.4	874
23	Gaped graphene bilayer: disorder and magnetic field effects. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 2311-2316	1.3	20
22	Electron waves in chemically substituted graphene. *Europhysics Letters*, **2007**, 80, 67007	1.6	64
21	Biased bilayer graphene: semiconductor with a gap tunable by the electric field effect. *Physical Review Letters*, **2007**, 99, 216802	7.4	1524
20	Phenomenological study of the electronic transport coefficients of graphene. *Physical Review B*, **2007**, 76,	3.3	94
19	Optimized multicanonical simulations: a proposal based on classical fluctuation theory. *Physical Review E*, **2006**, 74, 046702	2.4	14

18	Disorder induced localized States in graphene. *Physical Review Letters*, **2006**, 96, 036801	7.4	491
17	Analytical study of tunneling times in flat histogram Monte Carlo. *Europhysics Letters*, **2005**, 72, 802-808	1.6	8
16	Exact solution of Ising model on a small-world network. *Physical Review E*, **2004**, 70, 026112	2.4	35
15	Double exchange model for magnetic hexaborides. *Physical Review Letters*, **2004**, 93, 147202	7.4	22
14	One-electron singular branch lines of the Hubbard chain. *Europhysics Letters*, **2004**, 67, 233-239	1.6	28
13	Spin-dependent Boltzmann equation and GMR in metallic granular systems. *Journal of Magnetism and Magnetic Materials*, **2002**, 242-245, 482-484	2.8	3
12	Dipolar interactions and anisotropic magnetoresistance in metallic granular systems. *Physical Review B*, **2002**, 66,	3.3	4
11	Anomalous magnetic behavior in La2/3Ca1/3MnO3 near the critical point: stable clusters and crossover to uniform ferromagnetism. *Journal of Magnetism and Magnetic Materials*, **2001**, 226-230, 837-839	2.8	10
10	Crossover to quantum tunneling and relaxation in dipolar glasses. *Physical Review B*, **2000**, 61, 3155-3158	3.3	5
9	Static dielectric behavior of dipolar glasses. *Physical Review B*, **2000**, 61, 8053-8061	3.3	7
8	Dipolar glass phase and non ergodic behavior in (BP)0.15(BPI)0.85. *Ferroelectrics*, **2000**, 240, 1587-1592	0.6	
7	One-Particle Spectral Properties of 1D Mott-Hubbard Insulators. *Physical Review Letters*, **1999**, 83, 3892-3895	7.4	8
6	Anomalous low-field magnetization in La2/3Ca1/3MnO3 near the critical point: Stable clusters?. *Journal of Applied Physics*, **1998**, 83, 7154-7156	2.5	23
5	Simple representation of the eigenstates of the U?□one dimensional Hubbard model. *Journal De Physique, I*, **1992**, 2, 1889-1897		6
4	Superconducting fluctuation conductivity in a magnetic field in two dimensions. *Physical Review B*, **1985**, 31, 172-176	3.3	63
3	Coulomb and phonon-exchange contributions to the electron-electron scattering amplitude in normal metals. *Journal of Physics F: Metal Physics*, **1984**, 14, 2039-2045		4
2	Microscopic derivation of the role of phonon-mediated electron-electron interactions in the low-temperature resistivity of metals. *Journal of Physics F: Metal Physics*, **1983**, 13, 1233-1244		7
1	Self-consistent calculation of the quasiparticle lifetime in two-dimensional disordered metals. *Physical Review B*, **1983**, 28, 1189-1192	3.3	22