

Joo Lopes dos Santos

List of Publications by Citations

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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.

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	Biased bilayer graphene: semiconductor with a gap tunable by the electric field effect. <i>Physical Review Letters</i> , 2007 , 99, 216802	7.4	1524
52	Graphene bilayer with a twist: electronic structure. <i>Physical Review Letters</i> , 2007 , 99, 256802	7.4	874
51	Observation of Van Hove singularities in twisted graphene layers. <i>Nature Physics</i> , 2010 , 6, 109-113	16.2	729
50	Disorder induced localized States in graphene. <i>Physical Review Letters</i> , 2006 , 96, 036801	7.4	491
49	Continuum model of the twisted graphene bilayer. <i>Physical Review B</i> , 2012 , 86,	3.3	317
48	Modeling disorder in graphene. <i>Physical Review B</i> , 2008 , 77,	3.3	311
47	Electronic properties of a biased graphene bilayer. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 175503.8	3.8	121
46	Localized states at zigzag edges of bilayer graphene. <i>Physical Review Letters</i> , 2008 , 100, 026802	7.4	121
45	Phenomenological study of the electronic transport coefficients of graphene. <i>Physical Review B</i> , 2007 , 76,	3.3	94
44	Electron waves in chemically substituted graphene. <i>Europhysics Letters</i> , 2007 , 80, 67007	1.6	64
43	Superconducting fluctuation conductivity in a magnetic field in two dimensions. <i>Physical Review B</i> , 1985 , 31, 172-176	3.3	63
42	Zigzag graphene nanoribbon edge reconstruction with Stone-Wales defects. <i>Physical Review B</i> , 2011 , 84,	3.3	60
41	Coulomb drag and high-resistivity behavior in double-layer graphene. <i>Europhysics Letters</i> , 2011 , 95, 18001.6	1.6	43
40	Gauge covariances and nonlinear optical responses. <i>Physical Review B</i> , 2017 , 96,	3.3	36
39	Exact solution of Ising model on a small-world network. <i>Physical Review E</i> , 2004 , 70, 026112	2.4	35
38	Dirac electrons in graphene-based quantum wires and quantum dots. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 344202	1.8	32
37	One-electron singular branch lines of the Hubbard chain. <i>Europhysics Letters</i> , 2004 , 67, 233-239	1.6	28

36	Electronic doping of graphene by deposited transition metal atoms. <i>Physical Review B</i> , 2011 , 84,	3.3	27
35	Bilayer graphene: gap tunability and edge properties. <i>Journal of Physics: Conference Series</i> , 2008 , 129, 012002	0.3	26
34	Localized states at zigzag edges of multilayer graphene and graphite steps. <i>Europhysics Letters</i> , 2008 , 84, 17001	1.6	25
33	Anomalous low-field magnetization in $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ near the critical point: Stable clusters?. <i>Journal of Applied Physics</i> , 1998 , 83, 7154-7156	2.5	23
32	Double exchange model for magnetic hexaborides. <i>Physical Review Letters</i> , 2004 , 93, 147202	7.4	22
31	Self-consistent calculation of the quasiparticle lifetime in two-dimensional disordered metals. <i>Physical Review B</i> , 1983 , 28, 1189-1192	3.3	22
30	Gaped graphene bilayer: disorder and magnetic field effects. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 2311-2316	1.3	20
29	Scattering by linear defects in graphene: A continuum approach. <i>Physical Review B</i> , 2012 , 86,	3.3	19
28	Nonlinear optical responses of crystalline systems: Results from a velocity gauge analysis. <i>Physical Review B</i> , 2018 , 97,	3.3	18
27	Optimized multicanonical simulations: a proposal based on classical fluctuation theory. <i>Physical Review E</i> , 2006 , 74, 046702	2.4	14
26	Analytic results on long-distance entanglement mediated by gapped spin chains. <i>Physical Review A</i> , 2008 , 77,	2.6	12
25	Anomalous magnetic behavior in $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ near the critical point: stable clusters and crossover to uniform ferromagnetism. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 837-839	2.8	10
24	A Time-of-Flight Method To Measure the Speed of Sound Using a Stereo Sound Card. <i>Physics Teacher</i> , 2008 , 46, 428-431	0.4	9
23	Scattering by linear defects in graphene: a tight-binding approach. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 075303	1.8	8
22	Lattice Green's function approach to the solution of the spectrum of an array of quantum dots and its linear conductance. <i>Physical Review B</i> , 2009 , 79,	3.3	8
21	Analytical study of tunneling times in flat histogram Monte Carlo. <i>Europhysics Letters</i> , 2005 , 72, 802-808	1.6	8
20	One-Particle Spectral Properties of 1D Mott-Hubbard Insulators. <i>Physical Review Letters</i> , 1999 , 83, 3892-3895	3.4	8
19	Static dielectric behavior of dipolar glasses. <i>Physical Review B</i> , 2000 , 61, 8053-8061	3.3	7

18	Microscopic derivation of the role of phonon-mediated electron-electron interactions in the low-temperature resistivity of metals. <i>Journal of Physics F: Metal Physics</i> , 1983 , 13, 1233-1244		7
17	Evolution of squeezed states under the Fock-Darwin Hamiltonian. <i>Physical Review A</i> , 2009 , 80,	2.6	6
16	Simple representation of the eigenstates of the $U(1)^n$ dimensional Hubbard model. <i>Journal De Physique, I</i> , 1992 , 2, 1889-1897		6
15	Crossover to quantum tunneling and relaxation in dipolar glasses. <i>Physical Review B</i> , 2000 , 61, 3155-3158	3.3	5
14	Dipolar interactions and anisotropic magnetoresistance in metallic granular systems. <i>Physical Review B</i> , 2002 , 66,	3.3	4
13	Coulomb and phonon-exchange contributions to the electron-electron scattering amplitude in normal metals. <i>Journal of Physics F: Metal Physics</i> , 1984 , 14, 2039-2045		4
12	Emergence of robust gaps in two-dimensional antiferromagnets via additional spin-1/2 probes. <i>Physical Review A</i> , 2010 , 82,	2.6	3
11	Spin-dependent Boltzmann equation and GMR in metallic granular systems. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 242-245, 482-484	2.8	3
10	Spectral functions of one-dimensional systems with correlated disorder. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 175501	1.8	2
9	Global delocalization transition in the de Moura-Lyra model. <i>Physical Review B</i> , 2019 , 99,	3.3	2
8	Addition table of colours: additive and subtractive mixtures described using a single reasoning model. <i>Physics Education</i> , 2014 , 49, 61-66	0.8	2
7	A Polynomial Approach to the Spectrum of Dirac-Weyl Polygonal Billiards. <i>Journal of Physics Condensed Matter</i> , 2020 ,	1.8	2
6	Probing the Global Delocalization Transition in the de Moura-Lyra Model with the Kernel Polynomial Method. <i>EPJ Web of Conferences</i> , 2020 , 233, 05011	0.3	2
5	Substitutional disorder and charge localization in manganites. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 075601	1.8	1
4	Comment on "Jerk Current: A Novel Bulk Photovoltaic Effect". <i>Physical Review Letters</i> , 2021 , 126, 259704	1.4	1
3	Virtual Images: Going Through the Looking Glass. <i>Physics Teacher</i> , 2017 , 55, 52-53	0.4	
2	Dipolar glass phase and non ergodic behavior in $(BP)_{0.15}(BPI)_{0.85}$. <i>Ferroelectrics</i> , 2000 , 240, 1587-1592	0.6	
1	Theoretical calculations of nonlinear optical calculations of 2D materials. <i>EPJ Web of Conferences</i> , 2020 , 233, 03001	0.3	

