JoÃ£o Lopes dos Santos

List of Publications by Year
in descending order

58 papers	6,530 citations	279487 23 h-index	155451 55 g-index
65 all docs	65 docs citations	65 times ranked	6457 citing authors

#	Article	IF	Citations
1	Comment on â€œJerk Current: A Novel Bulk Photovoltaic Effectâ€• Physical Review Letters, 2021, 126, 259701.	2.9	4
2	Nonlinear optical conductivity of a two-band crystal I. Journal of Physics Condensed Matter, 2021, 33, 465701.	0.7	5
3	A polynomial approach to the spectrum of Diracâ€“Weyl polygonal Billiards. Journal of Physics Condensed Matter, 2021, 33, 035901.	0.7	2
4	A study of the nonlinear optical response of the plain graphene and gapped graphene monolayers beyond the Dirac approximation. Journal of Physics Condensed Matter, 2020, 32, 185701.	0.7	5
5	Theoretical calculations of nonlinear optical calculations of 2D materials. EPJ Web of Conferences, 2020, 233, 03001.	0.1	0
6	Probing the Global Delocalization Transition in the de Moura-Lyra Model with the Kernel Polynomial Method. EPJ Web of Conferences, 2020, 233, 05011.	0.1	6
7	Spectral functions of one-dimensional systems with correlated disorder. Journal of Physics Condensed Matter, 2019, 31, 175501.	0.7	4
8	Global delocalization transition in the de Mouraâ€“Lyra model. Physical Review B, 2019, 99, .	1.1	7
9	Nonlinear optical responses of crystalline systems: Results from a velocity gauge analysis. Physical Review B, 2018, 97, .	1.1	50
10	Investigating students' conceptual change about colour in an innovative research-based teaching sequence. Investigacoes Em Ensino De Ciencias, 2018, 23, 95.	0.0	2
11	Virtual Images: Going Through the Looking Glass. Physics Teacher, 2017, 55, 52-53.	0.2	0
12	Gauge covariances and nonlinear optical responses. Physical Review B, 2017, 96, .	1.1	73
13	Addition table of colours: additive and subtractive mixtures described using a single reasoning model. Physics Education, 2014, 49, 61-66.	0.3	4
14	Perfect mismatch. Nature Physics, 2014, 10, 709-711.	6.5	1
15	Scattering by linear defects in graphene: a tight-binding approach. Journal of Physics Condensed Matter, 2013, 25, 075303.	0.7	11
16	Reflecting Understanding: Using Lab Stations to Teach Image Formation. Science Scope (Washington, D) Tj ETQq0 0 0 rgBT /Overlock 1	0.1	0
17	Scattering by linear defects in graphene: A continuum approach. Physical Review B, 2012, 86, .	1.1	22
18	Continuum model of the twisted graphene bilayer. Physical Review B, 2012, 86, .	1.1	463

#	Article	IF	Citations
19	Coulomb drag and high-resistivity behavior in double-layer graphene. Europhysics Letters, 2011, 95, 18001.	0.7	51
20	Zigzag graphene nanoribbon edge reconstruction with Stone-Wales defects. Physical Review B, 2011, 84, .	1.1	65
21	Electronic doping of graphene by deposited transition metal atoms. Physical Review B, 2011, 84, .	1.1	29
22	Emergence of robust gaps in two-dimensional antiferromagnets via additional spin-1/2 probes. Physical Review A, 2010, 82, .	1.0	3
23	Observation of Van Hove singularities in twisted graphene layers. Nature Physics, 2010, 6, 109-113.	6.5	954
24	Substitutional disorder and charge localization in manganites. Journal of Physics Condensed Matter, 2010, 22, 075601.	0.7	1
25	Electronic properties of a biased graphene bilayer. Journal of Physics Condensed Matter, 2010, 22, 175503.	0.7	209
26	Lattice Greenâ€™s function approach to the solution of the spectrum of an array of quantum dots and its linear conductance. Physical Review B, 2009, 79, .	1.1	10
27	Evolution of squeezed states under the Fock-Darwin Hamiltonian. Physical Review A, 2009, 80, .	1.0	6
28	Dirac electrons in graphene-based quantum wires and quantum dots. Journal of Physics Condensed Matter, 2009, 21, 344202.	0.7	37
29	Modeling disorder in graphene. Physical Review B, 2008, 77, .	1.1	357
30	Bilayer graphene: gap tunability and edge properties. Journal of Physics: Conference Series, 2008, 129, 012002.	0.3	28
31	Localized States at Zigzag Edges of Bilayer Graphene. Physical Review Letters, 2008, 100, 026802.	2.9	136
32	Localized states at zigzag edges of multilayer graphene and graphite steps. Europhysics Letters, 2008, 84, 17001.	0.7	25
33	A Time-of-Flight Method To Measure the Speed of Sound Using a Stereo Sound Card. Physics Teacher, 2008, 46, 428-431.	0.2	10
34	Analytic results on long-distance entanglement mediated by gapped spin chains. Physical Review A, 2008, 77, .	1.0	14
35	Electron waves in chemically substituted graphene. Europhysics Letters, 2007, 80, 67007.	0.7	71
36	Biased Bilayer Graphene: Semiconductor with a Gap Tunable by the Electric Field Effect. Physical Review Letters, 2007, 99, 216802.	2.9	1,728

#	Article	IF	Citations
37	Phenomenological study of the electronic transport coefficients of graphene. Physical Review B, 2007, 76, .	1.1	109
38	Graphene Bilayer with a Twist: Electronic Structure. Physical Review Letters, 2007, 99, 256802.	2.9	1,165
39	Gaped graphene bilayer: disorder and magnetic field effects. Physica Status Solidi (B): Basic Research, 2007, 244, 2311-2316.	0.7	25
40	Disorder Induced Localized States in Graphene. Physical Review Letters, 2006, 96, 036801.	2.9	543
41	Optimized multicanonical simulations: A proposal based on classical fluctuation theory. Physical Review E, 2006, 74, 046702.	0.8	14
42	Analytical study of tunneling times in flat histogram Monte Carlo. Europhysics Letters, 2005, 72, 802-808.	0.7	8
43	Exact solution of Ising model on a small-world network. Physical Review E, 2004, 70, 026112.	0.8	39
44	Double Exchange Model for Magnetic Hexaborides. Physical Review Letters, 2004, 93, 147202.	2.9	22
45	One-electron singular branch lines of the Hubbard chain. Europhysics Letters, 2004, 67, 233-239.	0.7	30
46	Dipolar interactions and anisotropic magnetoresistance in metallic granular systems. Physical Review B, 2002, 66, .	1.1	4
47	Spin-dependent Boltzmann equation and GMR in metallic granular systems. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 482-484.	1.0	3
48	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.	1.0	12
49	Crossover to quantum tunneling and relaxation in dipolar glasses. Physical Review B, 2000, 61, 3155-3158.	1.1	7
50	Static dielectric behavior of dipolar glasses. Physical Review B, 2000, 61, 8053-8061.	1.1	8
51	Dipolar glass phase and non ergodic behavior in (BP)0.15(BPI)0.85. Ferroelectrics, 2000, 240, 1587-1592.	0.3	0
52	One-Particle Spectral Properties of 1D Mott-Hubbard Insulators. Physical Review Letters, 1999, 83, 3892-3895.	2.9	8
53	Anomalous low-field magnetization in La2/3Ca1/3MnO3 near the critical point: Stable clusters?. Journal of Applied Physics, 1998, 83, 7154-7156.	1.1	24
54	Simple representation of the eigenstates of the Uâ†¦âˆž one dimensional Hubbard model. Journal De Physique, I, 1992, 2, 1889-1897.	1.2	7

#	Article	IF	Citations
55	Superconducting fluctuation conductivity in a magnetic field in two dimensions. Physical Review B, 1985, 31, 172-176.	1.1	70
56	Coulomb and phonon-exchange contributions to the electron-electron scattering amplitude in normal metals. Journal of Physics F: Metal Physics, 1984, 14, 2039-2045.	1.6	4
57	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.	1.6	7
58	Self-consistent calculation of the quasiparticle lifetime in two-dimensional disordered metals. Physical Review B, 1983, 28, 1189-1192.	1.1	24