

Vitor Manuel Pereira

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.

54
papers

5,243
citations

27
h-index

60
g-index

60
ext. papers

5,848
ext. citations

7
avg, IF

5.91
L-index

#	Paper	IF	Citations
54	Tight-binding approach to uniaxial strain in graphene. <i>Physical Review B</i> , 2009 , 80,	3.3	918
53	Electron-Electron Interactions in Graphene: Current Status and Perspectives. <i>Reviews of Modern Physics</i> , 2012 , 84, 1067-1125	40.5	833
52	Strain engineering of graphene's electronic structure. <i>Physical Review Letters</i> , 2009 , 103, 046801	7.4	805
51	Disorder induced localized States in graphene. <i>Physical Review Letters</i> , 2006 , 96, 036801	7.4	491
50	Modeling disorder in graphene. <i>Physical Review B</i> , 2008 , 77,	3.3	311
49	Coulomb impurity problem in graphene. <i>Physical Review Letters</i> , 2007 , 99, 166802	7.4	224
48	Strained graphene: tight-binding and density functional calculations. <i>New Journal of Physics</i> , 2009 , 11, 115002	2.9	171
47	Geometry, mechanics, and electronics of singular structures and wrinkles in graphene. <i>Physical Review Letters</i> , 2010 , 105, 156603	7.4	152
46	Faraday effect in graphene enclosed in an optical cavity and the equation of motion method for the study of magneto-optical transport in solids. <i>Physical Review B</i> , 2011 , 84,	3.3	104
45	Optical properties of strained graphene. <i>Europhysics Letters</i> , 2010 , 92, 67001	1.6	99
44	Supercritical Coulomb impurities in gapped graphene. <i>Physical Review B</i> , 2008 , 78,	3.3	83
43	Tuning optical conductivity of large-scale CVD graphene by strain engineering. <i>Advanced Materials</i> , 2014 , 26, 1081-6	24	74
42	Polarization charge distribution in gapped graphene: Perturbation theory and exact diagonalization analysis. <i>Physical Review B</i> , 2008 , 78,	3.3	69
41	Lattice-corrected strain-induced vector potentials in graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	59
40	Adatoms in graphene. <i>Solid State Communications</i> , 2009 , 149, 1094-1100	1.6	52
39	Resonant tunneling in graphene pseudomagnetic quantum dots. <i>Nano Letters</i> , 2013 , 13, 2692-7	11.5	45
38	Pseudomagnetic fields in graphene nanobubbles of constrained geometry: A molecular dynamics study. <i>Physical Review B</i> , 2014 , 90,	3.3	44

37	Stable charge density wave phase in a 1T α -TiSe ₂ monolayer. <i>Physical Review B</i> , 2017 , 95,	3-3	42
36	Magnetism in strained graphene dots. <i>Physical Review B</i> , 2009 , 80,	3-3	40
35	Tunable optical absorption and interactions in graphene via oxygen plasma. <i>Physical Review B</i> , 2014 , 89,	3-3	37
34	Characterization of the second- and third-harmonic optical susceptibilities of atomically thin tungsten diselenide. <i>Scientific Reports</i> , 2018 , 8, 10035	4-9	37
33	Coexistence of large conventional and planar spin Hall effect with long spin diffusion length in a low-symmetry semimetal at room temperature. <i>Nature Materials</i> , 2020 , 19, 292-298	27	35
32	Reproduction of the Charge Density Wave Phase Diagram in 1T-TiSe ₂ Exposes its Excitonic Character. <i>Physical Review Letters</i> , 2018 , 121, 226602	7-4	33
31	Conductance signatures of electron confinement induced by strained nanobubbles in graphene. <i>Nanoscale</i> , 2015 , 7, 15300-9	7-7	31
30	Piezoelectricity in planar boron nitride via a geometric phase. <i>Physical Review B</i> , 2016 , 94,	3-3	31
29	Excitonic structure of the optical conductivity in MoS ₂ monolayers. <i>Physical Review B</i> , 2018 , 97,	3-3	27
28	Quantized Transport, Strain-Induced Perfectly Conducting Modes, and Valley Filtering on Shape-Optimized Graphene Corbino Devices. <i>Nano Letters</i> , 2017 , 17, 5304-5313	11.5	26
27	Topological crystalline insulator states in the Ca ₂ As family. <i>Physical Review B</i> , 2018 , 98,	3-3	24
26	Conductance across strain junctions in graphene nanoribbons. <i>Physical Review B</i> , 2013 , 88,	3-3	22
25	Double exchange model for magnetic hexaborides. <i>Physical Review Letters</i> , 2004 , 93, 147202	7-4	22
24	Spin-Orbit Torque Magnetization Switching in MoTe ₂ /Permalloy Heterostructures. <i>Advanced Materials</i> , 2020 , 32, e2002799	24	21
23	Nonlinear photocurrents in two-dimensional systems based on graphene and boron nitride. <i>Physical Review B</i> , 2016 , 94,	3-3	21
22	Purely rotational symmetry-protected topological crystalline insulator α -Bi ₄ Br ₄ . <i>2D Materials</i> , 2019 , 6, 031004	5-9	20
21	Graphene kirigami as a platform for stretchable and tunable quantum dot arrays. <i>Physical Review B</i> , 2016 , 93,	3-3	19
20	Designing electronic properties of two-dimensional crystals through optimization of deformations. <i>New Journal of Physics</i> , 2014 , 16, 093044	2-9	19

19	Canted Persistent Spin Texture and Quantum Spin Hall Effect in WTe ₂ . <i>Physical Review Letters</i> , 2020 , 125, 256603	7.4	17
18	Nonlinear magnetotransport shaped by Fermi surface topology and convexity. <i>Nature Communications</i> , 2019 , 10, 1290	17.4	15
17	Magneto-optical evidence of double exchange in a percolating lattice. <i>Physical Review Letters</i> , 2006 , 96, 016403	7.4	15
16	Discommensuration-driven superconductivity in the charge density wave phases of transition-metal dichalcogenides. <i>Physical Review B</i> , 2019 , 99,	3.3	14
15	Second harmonic spectroscopy to optically detect valley polarization in 2D materials. <i>2D Materials</i> , 2017 , 4, 021027	5.9	13
14	Frustrated supercritical collapse in tunable charge arrays on graphene. <i>Nature Communications</i> , 2019 , 10, 477	17.4	13
13	Enhanced optical dichroism of graphene nanoribbons. <i>Physical Review B</i> , 2012 , 86,	3.3	13
12	Anomalous Quantum Metal in a 2D Crystalline Superconductor with Electronic Phase Nonuniformity. <i>Nano Letters</i> , 2019 , 19, 4126-4133	11.5	9
11	Scaling study of the metal-insulator transition in one-dimensional Fermion systems. <i>Physical Review B</i> , 2002 , 66,	3.3	9
10	Measuring Valley Polarization in Two-Dimensional Materials with Second-Harmonic Spectroscopy. <i>ACS Photonics</i> , 2020 , 7, 925-931	6.3	8
9	Charge Density Waves and the Hidden Nesting of Purple Bronze K _{0.9} Mo ₆ O ₁₇ . <i>Physical Review Letters</i> , 2017 , 118, 257601	7.4	8
8	Boron and nitrogen doping in graphene antidot lattices. <i>Physical Review B</i> , 2016 , 93,	3.3	7
7	Distortion of the perfect lattice structure in bilayer graphene. <i>Physical Review B</i> , 2009 , 79,	3.3	7
6	Correlated states of a triangular net of coupled quantum wires: Implications for the phase diagram of marginally twisted bilayer graphene. <i>Physical Review B</i> , 2020 , 101,	3.3	6
5	Effective contact model for geometry-independent conductance calculations in graphene. <i>Physical Review B</i> , 2013 , 88,	3.3	5
4	Effect of Oxygen Plasma on the Optical Properties of Monolayer Graphene. <i>Advanced Materials Research</i> , 2014 , 896, 510-513	0.5	3
3	Antiferromagnetism and chiral d-wave superconductivity from an effective tDD model for twisted bilayer graphene. <i>Physical Review B</i> , 2020 , 101,	3.3	2
2	Charge-to-Spin Interconversion in Low-Symmetry Topological Materials		2

- 1 Expeditious computation of nonlinear optical properties of arbitrary order with native electronic interactions in the time domain. *Physical Review B*, **2020**, 102, 33 1