

Vitor Manuel Pereira

List of Publications by Year in descending order

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56
papers

6,345
citations

136950

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144013

57
g-index

60
all docs

60
docs citations

60
times ranked

6639
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological excitons. Nature Physics, 2022, 18, 6-7.	16.7	5
2	Low-symmetry topological materials for large charge-to-spin interconversion: The case of transition metal dichalcogenide monolayers. Physical Review Research, 2021, 3, .	3.6	11
3	Spin-Orbit Torque Magnetization Switching in MoTe ₂ /Permalloy Heterostructures. Advanced Materials, 2020, 32, e2002799.	21.0	40
4	Canted Persistent Spin Texture and Quantum Spin Hall Effect in WTe_2 . Physical Review Letters, 2020, 125, 256603.	7.8	38
5	Expeditious computation of nonlinear optical properties of arbitrary order with native electronic interactions in the time domain. Physical Review B, 2020, 102, .	3.2	4
6	Antiferromagnetism and chiral d -wave superconductivity from an effective t - \hat{a} - J model for twisted bilayer graphene. Physical Review B, 2020, 101, .	3.2	5
7	Measuring Valley Polarization in Two-Dimensional Materials with Second-Harmonic Spectroscopy. ACS Photonics, 2020, 7, 925-931.	6.6	22
8	Coexistence of large conventional and planar spin Hall effect with long spin diffusion length in a low-symmetry semimetal at room temperature. Nature Materials, 2020, 19, 292-298.	27.5	77
9	Correlated states of a triangular net of coupled quantum wires: Implications for the phase diagram of marginally twisted bilayer graphene. Physical Review B, 2020, 101, .	3.2	12
10	Frustrated supercritical collapse in tunable charge arrays on graphene. Nature Communications, 2019, 10, 477.	12.8	23
11	Anomalous Quantum Metal in a 2D Crystalline Superconductor with Electronic Phase Nonuniformity. Nano Letters, 2019, 19, 4126-4133.	9.1	22
12	Nonlinear magnetotransport shaped by Fermi surface topology and convexity. Nature Communications, 2019, 10, 1290.	12.8	38
13	Discommensuration-driven superconductivity in the charge density wave phases of transition-metal dichalcogenides. Physical Review B, 2019, 99, .	3.2	21
14	Purely rotational symmetry-protected topological crystalline insulator $\hat{\pm}$ -Bi ₄ Br ₄ . 2D Materials, 2019, 6, 031004.	4.4	41
15	Topological crystalline insulator states in the $CaMn_2X_4$ family. Physical Review B, 2018, 98, .	2.8	28
16	Reproduction of the Charge Density Wave Phase Diagram in $T\hat{a}$ Exposes its Excitonic Character. Physical Review Letters, 2018, 121, 226602.	7.8	49
17	Reply to 'Comment on $\hat{\sim}$ Piezoelectricity in planar boron nitride via a geometric phase'. Physical Review B, 2018, 98, .	3.2	0
18	Characterization of the second- and third-harmonic optical susceptibilities of atomically thin tungsten diselenide. Scientific Reports, 2018, 8, 10035.	3.3	57

#	ARTICLE	IF	CITATIONS
19	Excitonic structure of the optical conductivity in MoS_2 monolayers. Physical Review B, 2018, 97, .	3.2	20
20	Second harmonic spectroscopy to optically detect valley polarization in 2D materials. 2D Materials, 2017, 4, 021027.	4.4	20
21	Charge Density Waves and the Hidden Nesting of Purple Bronze $\text{K}_0.9\text{Mo}_6\text{O}_{17}$. Physical Review Letters, 2017, 118, 257601.	7.8	10
22	Quantized Transport, Strain-Induced Perfectly Conducting Modes, and Valley Filtering on Shape-Optimized Graphene Corbino Devices. Nano Letters, 2017, 17, 5304-5313.	9.1	32
23	Stable charge density wave phase in a SnTe monolayer. Physical Review B, 2017, 95, .	3.2	20
24	Nonlinear photocurrents in two-dimensional systems based on graphene and boron nitride. Physical Review B, 2016, 94, .	3.2	34
25	Piezoelectricity in planar boron nitride via a geometric phase. Physical Review B, 2016, 94, .	3.2	42
26	Graphene kirigami as a platform for stretchable and tunable quantum dot arrays. Physical Review B, 2016, 93, .	3.2	25
27	Boron and nitrogen doping in graphene antidot lattices. Physical Review B, 2016, 93, .	3.2	7
28	Conductance signatures of electron confinement induced by strained nanobubbles in graphene. Nanoscale, 2015, 7, 15300-15309.	5.6	35
29	Designing electronic properties of two-dimensional crystals through optimization of deformations. New Journal of Physics, 2014, 16, 093044.	2.9	20
30	Tuning Optical Conductivity of Large-Scale CVD Graphene by Strain Engineering. Advanced Materials, 2014, 26, 1081-1086.	21.0	86
31	Pseudomagnetic fields in graphene nanobubbles of constrained geometry: A molecular dynamics study. Physical Review B, 2014, 90, .	3.2	52
32	Tunable optical absorption and interactions in graphene via oxygen plasma. Physical Review B, 2014, 89, .	3.2	42
33	Conductance across strain junctions in graphene nanoribbons. Physical Review B, 2013, 88, .	3.2	26
34	Resonant Tunneling in Graphene Pseudomagnetic Quantum Dots. Nano Letters, 2013, 13, 2692-2697.	9.1	49
35	Effective contact model for geometry-independent conductance calculations in graphene. Physical Review B, 2013, 88, .	3.2	7
36	Lattice-corrected strain-induced vector potentials in graphene. Physical Review B, 2012, 85, .	3.2	64

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37	Enhanced optical dichroism of graphene nanoribbons. <i>Physical Review B</i> , 2012, 86, .	3.2	18
38	Electron-Electron Interactions in Graphene: Current Status and Perspectives. <i>Reviews of Modern Physics</i> , 2012, 84, 1067-1125.	45.6	999
39	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, .	3.2	125
40	Geometry, Mechanics, and Electronics of Singular Structures and Wrinkles in Graphene. <i>Physical Review Letters</i> , 2010, 105, 156603.	7.8	177
41	Optical properties of strained graphene. <i>Europhysics Letters</i> , 2010, 92, 67001.	2.0	112
42	Distortion of the perfect lattice structure in bilayer graphene. <i>Physical Review B</i> , 2009, 79, .	3.2	11
43	Adatoms in graphene. <i>Solid State Communications</i> , 2009, 149, 1094-1100.	1.9	65
44	Strained graphene: tight-binding and density functional calculations. <i>New Journal of Physics</i> , 2009, 11, 115002.	2.9	197
45	Strain Engineering of Graphene's Electronic Structure. <i>Physical Review Letters</i> , 2009, 103, 046801.	7.8	933
46	Tight-binding approach to uniaxial strain in graphene. <i>Physical Review B</i> , 2009, 80, .	3.2	1,094
47	Magnetism in strained graphene dots. <i>Physical Review B</i> , 2009, 80, .	3.2	41
48	Supercritical Coulomb impurities in gapped graphene. <i>Physical Review B</i> , 2008, 78, .	3.2	96
49	Modeling disorder in graphene. <i>Physical Review B</i> , 2008, 77, .	3.2	357
50	Polarization charge distribution in gapped graphene: Perturbation theory and exact diagonalization analysis. <i>Physical Review B</i> , 2008, 78, .	3.2	77
51	Coulomb Impurity Problem in Graphene. <i>Physical Review Letters</i> , 2007, 99, 166802.	7.8	261
52	Disorder Induced Localized States in Graphene. <i>Physical Review Letters</i> , 2006, 96, 036801.	7.8	543
53	Magneto-Optical Evidence of Double Exchange in a Percolating Lattice. <i>Physical Review Letters</i> , 2006, 96, 016403.	7.8	16
54	Double Exchange Model for Magnetic Hexaborides. <i>Physical Review Letters</i> , 2004, 93, 147202.	7.8	22

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55	Scaling study of the metal-insulator transition in one-dimensional Fermion systems. Physical Review B, 2002, 66, .	3.2	9
56	Effect of Oxygen Plasma on the Optical Properties of Monolayer Graphene. Advanced Materials Research, 0, 896, 510-513.	0.3	5