

Ah Castro Neto

List of Publications by Year in descending order

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70
papers

38,956
citations

76031

42
h-index

120465

65
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71
all docs

71
docs citations

71
times ranked

38279
citing authors

#	ARTICLE	IF	CITATIONS
1	Microscopic theory of ionic motion in solids. <i>Physical Review B</i> , 2022, 105, .	1.1	5
2	Tunable van Hove singularities and correlated states in twisted monolayer–bilayer graphene. <i>Nature Physics</i> , 2021, 17, 619-626.	6.5	103
3	Collective excitations in 2D materials. <i>Nature Reviews Physics</i> , 2020, 2, 524-537.	11.9	37
4	2D materials and van der Waals heterostructures. <i>Science</i> , 2016, 353, aac9439.	6.0	4,958
5	Multiferroic Two-Dimensional Materials. <i>Physical Review Letters</i> , 2016, 116, 206803.	2.9	187
6	Collective modes in anisotropic double-layer systems. <i>Physical Review B</i> , 2015, 91, .	1.1	26
7	Oxygen Defects in Phosphorene. <i>Physical Review Letters</i> , 2015, 114, 046801.	2.9	511
8	Creating a Stable Oxide at the Surface of Black Phosphorus. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14557-14562.	4.0	318
9	Extrinsic Spin Hall Effect Induced by Resonant Skew Scattering in Graphene. <i>Physical Review Letters</i> , 2014, 112, 066601.	2.9	105
10	Excitons in anisotropic two-dimensional semiconducting crystals. <i>Physical Review B</i> , 2014, 90, .	1.1	136
11	Strain-Induced Gap Modification in Black Phosphorus. <i>Physical Review Letters</i> , 2014, 112, 176801.	2.9	1,303
12	Pseudomagnetic fields in graphene nanobubbles of constrained geometry: A molecular dynamics study. <i>Physical Review B</i> , 2014, 90, .	1.1	52
13	Electron-Electron Interactions in Graphene: Current Status and Perspectives. <i>Reviews of Modern Physics</i> , 2012, 84, 1067-1125.	16.4	999
14	Gate-tuning of graphene plasmons revealed by infrared nano-imaging. <i>Nature</i> , 2012, 487, 82-85.	13.7	1,780
15	Unified description of the dc conductivity of monolayer and bilayer graphene at finite densities based on resonant scatterers. <i>Physical Review B</i> , 2011, 83, .	1.1	152
16	Pinning of a two-dimensional membrane on top of a patterned substrate: The case of graphene. <i>Physical Review B</i> , 2011, 83, .	1.1	55
17	Observation of Van Hove singularities in twisted graphene layers. <i>Nature Physics</i> , 2010, 6, 109-113.	6.5	954
18	Effect of external conditions on the structure of scrolled graphene edges. <i>Physical Review B</i> , 2010, 81, .	1.1	43

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19	$\langle \mathbf{r}_i \mathbf{r}_j \rangle = \delta_{ij}$ in correlated graphene. Physical Review B, 2009, 80, .		
20	Magnetism and magnetotransport in disordered graphene. Physical Review B, 2009, 80, .	1.1	31
21	Observation of the Kohn anomaly near the K point of bilayer graphene. Physical Review B, 2009, 80, .	1.1	32
22	The electronic properties of graphene. Reviews of Modern Physics, 2009, 81, 109-162.	16.4	20,779
23	Conductance quantization and transport gaps in disordered graphene nanoribbons. Physical Review B, 2009, 79, .	1.1	307
24	Impurity-Induced Spin-Orbit Coupling in Graphene. Physical Review Letters, 2009, 103, 026804.	2.9	461
25	Electronic properties of bilayer graphene probed by Resonance Raman Scattering. Physica Status Solidi (B): Basic Research, 2008, 245, 2060-2063.	0.7	16
26	Origin of the energy bandgap in epitaxial graphene. Nature Materials, 2008, 7, 259-260.	13.3	175
27	Electronic properties of bilayer and multilayer graphene. Physical Review B, 2008, 78, .	1.1	259
28	Conductivity of suspended and non-suspended graphene at finite gate voltage. Physical Review B, 2008, 78, .	1.1	105
29	$\langle \mathbf{r}_i \mathbf{r}_j \rangle = \delta_{ij}$ -sum rule and unconventional spectral weight transfer in graphene. Physical Review B, 2008, 78, .	1.1	64
30	Electrostatic interactions between graphene layers and their environment. Physical Review B, 2008, 77, .	1.1	125
31	Tailoring graphene with metals on top. Physical Review B, 2008, 77, .	1.1	110
32	Numerical studies of conductivity and Fano factor in disordered graphene. Physical Review B, 2008, 77, .	1.1	126
33	Mean-field study of the heavy-fermion metamagnetic transition. Physical Review B, 2008, 77, .	1.1	47
34	Negative hopping magnetoresistance and dimensional crossover in lightly doped cuprate superconductors. Physical Review B, 2007, 76, .	1.1	11
35	Phase diagram of the Holstein-Hubbard two-leg ladder using a functional renormalization-group method. Physical Review B, 2007, 75, .	1.1	10
36	Electron transmission between normal and heavy electron metallic phases in a Kondo lattice system. Physical Review B, 2007, 75, .	1.1	5

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37	Exotic superconducting phases of ultracold atom mixtures on triangular lattices. Physical Review B, 2007, 75, .	1.1	23
38	Retardation effects in the Holstein-Hubbard chain at half filling. Physical Review B, 2007, 75, .	1.1	35
39	An introduction to the physics of graphene layers. , 2007, , 111-143.		0
40	Probing the electronic structure of bilayer graphene by Raman scattering. Physical Review B, 2007, 76, .	1.1	303
41	Transmission through a biased graphene bilayer barrier. Physical Review B, 2007, 76, .	1.1	125
42	Coulomb Blockade in Graphene Nanoribbons. Physical Review Letters, 2007, 99, 166803.	2.9	286
43	Interaction effects in single layer and multi-layer graphene. European Physical Journal: Special Topics, 2007, 148, 117-125.	1.2	17
44	DROPLETS IN DISORDERED METALLIC QUANTUM CRITICAL SYSTEMS. , 2007, , .		0
45	Ice: A strongly correlated proton system. Physical Review B, 2006, 74, .	1.1	56
46	Edge and surface states in the quantum Hall effect in graphene. Physical Review B, 2006, 73, .	1.1	164
47	Electronic states and Landau levels in graphene stacks. Physical Review B, 2006, 73, .	1.1	591
48	Renormalization-group approach to superconductivity: from weak to strong electron-phonon coupling. Philosophical Magazine, 2006, 86, 2631-2641.	0.7	13
49	Dirac fermion confinement in graphene. Physical Review B, 2006, 73, .	1.1	137
50	Conductance quantization in mesoscopic graphene. Physical Review B, 2006, 73, .	1.1	320
51	Electronic properties of disordered two-dimensional carbon. Physical Review B, 2006, 73, .	1.1	1,292
52	Electron-electron interactions and the phase diagram of a graphene bilayer. Physical Review B, 2006, 73, .	1.1	200
53	Microscopic theory of the single impurity surface Kondo resonance. Physical Review B, 2005, 71, .	1.1	22
54	Renormalization-group approach to strong-coupled superconductors. Physical Review B, 2005, 72, .	1.1	34

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55	Nodal liquid and s-wave superconductivity in transition metal dichalcogenides. Physical Review B, 2005, 71, .	1.1	49
56	Frustration of decoherence in open quantum systems. Physical Review B, 2005, 72, .	1.1	41
57	Coulomb interactions and ferromagnetism in pure and doped graphene. Physical Review B, 2005, 72, .	1.1	207
58	Electromagnetic response of layered superconductors with broken lattice inversion symmetry. Physical Review B, 2004, 69, .	1.1	8
59	Excitations and quantum fluctuations in site-diluted two-dimensional antiferromagnets. Physical Review B, 2004, 69, .	1.1	30
60	Spin-glass phase of cuprates. Physical Review B, 2004, 69, .	1.1	47
61	Coupling of Longitudinal and Transverse Stripe Fluctuations. Journal of Superconductivity and Novel Magnetism, 2003, 16, 491-494.	0.5	0
62	Quantum Magnetic Impurities in Magnetically Ordered Systems. Physical Review Letters, 2003, 91, 096401.	2.9	43
63	SUPERCONDUCTIVITY AND THE STRIPE STATE OF TRANSITION METAL OXIDES. , 2003, , .		0
64	Charge density wave formation in the low-temperature-tetragonal phase of cuprates. Physical Review B, 2002, 65, .	1.1	9
65	Coulomb gas approach to the anisotropic one-dimensional Kondo lattice model at arbitrary filling. Physical Review B, 2002, 66, .	1.1	21
66	Diluted quantum antiferromagnets: Spin excitations and long-range order. Physical Review B, 2002, 65, .	1.1	58
67	Charge Density Wave, Superconductivity, and Anomalous Metallic Behavior in 2D Transition Metal Dichalcogenides. Physical Review Letters, 2001, 86, 4382-4385.	2.9	403
68	Nonlinear excitations in one-dimensional correlated insulators. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 827-846.	0.6	4
69	Phonons and solitons in one-dimensional Mott insulators. Physical Review B, 2001, 64, .	1.1	0
70	P-wave pairing and ferromagnetism in the metal-insulator transition in two dimensions. Physical Review B, 2001, 64, .	1.1	11