

Eduardo V Castro

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.

52
papers

2,974
citations

21
h-index

54
g-index

56
ext. papers

3,308
ext. citations

3.6
avg, IF

4.86
L-index

#	Paper	IF	Citations
52	Biased bilayer graphene: semiconductor with a gap tunable by the electric field effect. <i>Physical Review Letters</i> , 2007 , 99, 216802	7.4	1524
51	Limits on charge carrier mobility in suspended graphene due to flexural phonons. <i>Physical Review Letters</i> , 2010 , 105, 266601	7.4	297
50	Electronic properties of a biased graphene bilayer. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 175503.8	3.8	121
49	Localized states at zigzag edges of bilayer graphene. <i>Physical Review Letters</i> , 2008 , 100, 026802	7.4	121
48	Low-density ferromagnetism in biased bilayer graphene. <i>Physical Review Letters</i> , 2008 , 100, 186803	7.4	110
47	Temperature-dependent resistivity in bilayer graphene due to flexural phonons. <i>Physical Review B</i> , 2011 , 83,	3.3	62
46	Charge instabilities and topological phases in the extended Hubbard model on the honeycomb lattice with enlarged unit cell. <i>Physical Review B</i> , 2013 , 87,	3.3	59
45	Algebraic solution of a graphene layer in transverse electric and perpendicular magnetic fields. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 406231	1.8	57
44	Interaction-driven phases in the half-filled spinless honeycomb lattice from exact diagonalization. <i>Physical Review B</i> , 2013 , 88,	3.3	50
43	Site dilution of quantum spins in the honeycomb lattice. <i>Physical Review B</i> , 2006 , 73,	3.3	47
42	New type of vacancy-induced localized States in multilayer graphene. <i>Physical Review Letters</i> , 2010 , 104, 036802	7.4	44
41	Topological Fermi liquids from Coulomb interactions in the doped honeycomb lattice. <i>Physical Review Letters</i> , 2011 , 107, 106402	7.4	42
40	Scattering by flexural phonons in suspended graphene under back gate induced strain. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 963-966	3	37
39	Valley symmetry breaking in bilayer graphene: a test of the minimal model. <i>Physical Review Letters</i> , 2009 , 103, 266804	7.4	29
38	Change of an insulators topological properties by a Hubbard interaction. <i>Physical Review B</i> , 2013 , 87,	3.3	26
37	Bilayer graphene: gap tunability and edge properties. <i>Journal of Physics: Conference Series</i> , 2008 , 129, 012002	0.3	26
36	Localized states at zigzag edges of multilayer graphene and graphite steps. <i>Europhysics Letters</i> , 2008 , 84, 17001	1.6	25

35	Quantum dark solitons as qubits in Bose-Einstein condensates. <i>Physical Review A</i> , 2017 , 95,	2.6	24
34	Double exchange model for magnetic hexaborides. <i>Physical Review Letters</i> , 2004 , 93, 147202	7.4	22
33	Collapse of Landau levels in Weyl semimetals. <i>Physical Review B</i> , 2017 , 96,	3.3	21
32	Anderson localization and topological transition in Chern insulators. <i>Physical Review B</i> , 2015 , 92,	3.3	21
31	Gaped graphene bilayer: disorder and magnetic field effects. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 2311-2316	1.3	20
30	Pinning and switching of magnetic moments in bilayer graphene. <i>New Journal of Physics</i> , 2009 , 11, 095017	17.9	16
29	Entanglement sudden death and revival in quantum dark-soliton qubits. <i>Physical Review A</i> , 2018 , 98,	2.6	15
28	Strain-induced topological phase transition at zigzag edges of monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2016 , 94,	3.3	14
27	Effect of pressure on the magnetism of bilayer graphene. <i>Physical Review B</i> , 2011 , 84,	3.3	14
26	Impact of complex adatom-induced interactions on quantum spin Hall phases. <i>Physical Review B</i> , 2018 , 98,	3.3	12
25	Symmetry Breaking and Lattice Kirigami. <i>Physical Review Letters</i> , 2018 , 121, 221601	7.4	12
24	Hall conductivity as bulk signature of topological transitions in superconductors. <i>Europhysics Letters</i> , 2014 , 105, 37011	1.6	11
23	Raise and collapse of pseudo Landau levels in graphene. <i>Physical Review B</i> , 2017 , 96,	3.3	10
22	Valley-polarized magnetic state in hole-doped monolayers of transition-metal dichalcogenides. <i>Physical Review B</i> , 2018 , 98,	3.3	10
21	Spontaneous generation of phononic entanglement in quantum dark-soliton qubits. <i>Physical Review A</i> , 2019 , 99,	2.6	8
20	Absence of localization in a class of topological systems. <i>Physical Review B</i> , 2016 , 93,	3.3	8
19	Chern band insulators in a magnetic field. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 075501	1.8	7
18	Vacancy induced zero energy modes in graphene stacks: The case of ABC trilayer. <i>Solid State Communications</i> , 2012 , 152, 1483-1488	1.6	7

17	Quantum quench dynamics and population inversion in bilayer graphene. <i>Physical Review B</i> , 2010 , 82,	3.3	6
16	Haldane model under nonuniform strain. <i>Physical Review B</i> , 2017 , 96,	3.3	5
15	Temperature-Driven Gapless Topological Insulator. <i>Physical Review Letters</i> , 2019 , 122, 126601	7.4	5
14	First-order ferromagnetic phase transition in the low electronic density regime of a biased graphene bilayer. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 335207	1.8	5
13	Interplay of local order and topology in the extended Haldane-Hubbard model. <i>Physical Review B</i> , 2021 , 103,	3.3	5
12	Disorder-Driven Multifractality Transition in Weyl Nodal Loops. <i>Physical Review Letters</i> , 2020 , 124, 136405	5.4	4
11	Strain manipulation of Majorana fermions in graphene armchair nanoribbons. <i>Physical Review B</i> , 2018 , 97,	3.3	4
10	Slow sound in matter-wave dark soliton gases. <i>Physical Review B</i> , 2019 , 99,	3.3	2
9	Robust one dimensionality at twin grain boundaries in MoSe ₂ . <i>Physical Review B</i> , 2019 , 99,	3.3	2
8	Dirac points merging and wandering in a model Chern insulator. <i>Europhysics Letters</i> , 2018 , 124, 67003	1.6	2
7	Transmission across a bilayer graphene region. <i>Physical Review B</i> , 2019 , 99,	3.3	1
6	Phononic phase gate with dark-soliton qubit. <i>Physica Scripta</i> , 2020 , 95, 055103	2.6	1
5	Substitutional disorder and charge localization in manganites. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 075601	1.8	1
4	Interplay of interactions, disorder, and topology in the Haldane-Hubbard model. <i>Physical Review B</i> , 2021 , 104,	3.3	1
3	Static and Dynamic Disorder in Topological Systems: Localized, Critical and Extended States. <i>Acta Physica Polonica A</i> , 2019 , 135, 1180-1190	0.6	0
2	Site dilution of quantum spins in the honeycomb and square lattices. <i>Physica B: Condensed Matter</i> , 2006 , 378-380, 137-138	2.8	
1	Multi-orbital physics of edge-magnetism in a Hubbard model of transition-metal dichalcogenide nanoribbons: Comparing Mean Field Theory and Determinant Quantum Monte Carlo. <i>EPJ Web of Conferences</i> , 2020 , 233, 03003	0.3	