

Eduardo V Castro

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2870641/eduardo-v-castro-publications-by-year.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Interplay of interactions, disorder, and topology in the Haldane-Hubbard model. <i>Physical Review B</i> , 2021 , 104,	3.3	1
51	Interplay of local order and topology in the extended Haldane-Hubbard model. <i>Physical Review B</i> , 2021 , 103,	3.3	5
50	Disorder-Driven Multifractality Transition in Weyl Nodal Loops. <i>Physical Review Letters</i> , 2020 , 124, 1364054	7.4	4
49	Phononic phase gate with dark-soliton qubit. <i>Physica Scripta</i> , 2020 , 95, 055103	2.6	1
48	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	
47	Transmission across a bilayer graphene region. <i>Physical Review B</i> , 2019 , 99,	3.3	1
46	Slow sound in matter-wave dark soliton gases. <i>Physical Review B</i> , 2019 , 99,	3.3	2
45	Spontaneous generation of phononic entanglement in quantum dark-soliton qubits. <i>Physical Review A</i> , 2019 , 99,	2.6	8
44	Temperature-Driven Gapless Topological Insulator. <i>Physical Review Letters</i> , 2019 , 122, 126601	7.4	5
43	Robust one dimensionality at twin grain boundaries in MoSe ₂ . <i>Physical Review B</i> , 2019 , 99,	3.3	2
42	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
41	Strain manipulation of Majorana fermions in graphene armchair nanoribbons. <i>Physical Review B</i> , 2018 , 97,	3.3	4
40	Impact of complex adatom-induced interactions on quantum spin Hall phases. <i>Physical Review B</i> , 2018 , 98,	3.3	12
39	Entanglement sudden death and revival in quantum dark-soliton qubits. <i>Physical Review A</i> , 2018 , 98,	2.6	15
38	Dirac points merging and wandering in a model Chern insulator. <i>Europhysics Letters</i> , 2018 , 124, 67003	1.6	2
37	Symmetry Breaking and Lattice Kirigami. <i>Physical Review Letters</i> , 2018 , 121, 221601	7.4	12
36	Valley-polarized magnetic state in hole-doped monolayers of transition-metal dichalcogenides. <i>Physical Review B</i> , 2018 , 98,	3.3	10

35	Haldane model under nonuniform strain. <i>Physical Review B</i> , 2017 , 96,	3-3	5
34	Collapse of Landau levels in Weyl semimetals. <i>Physical Review B</i> , 2017 , 96,	3-3	21
33	Raise and collapse of pseudo Landau levels in graphene. <i>Physical Review B</i> , 2017 , 96,	3-3	10
32	Quantum dark solitons as qubits in Bose-Einstein condensates. <i>Physical Review A</i> , 2017 , 95,	2.6	24
31	Absence of localization in a class of topological systems. <i>Physical Review B</i> , 2016 , 93,	3-3	8
30	Strain-induced topological phase transition at zigzag edges of monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2016 , 94,	3-3	14
29	Anderson localization and topological transition in Chern insulators. <i>Physical Review B</i> , 2015 , 92,	3-3	21
28	Hall conductivity as bulk signature of topological transitions in superconductors. <i>Europhysics Letters</i> , 2014 , 105, 37011	1.6	11
27	Chern band insulators in a magnetic field. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 075501	1.8	7
26	Change of an insulators topological properties by a Hubbard interaction. <i>Physical Review B</i> , 2013 , 87,	3-3	26
25	Interaction-driven phases in the half-filled spinless honeycomb lattice from exact diagonalization. <i>Physical Review B</i> , 2013 , 88,	3-3	50
24	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
23	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
22	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
21	Effect of pressure on the magnetism of bilayer graphene. <i>Physical Review B</i> , 2011 , 84,	3-3	14
20	Temperature-dependent resistivity in bilayer graphene due to flexural phonons. <i>Physical Review B</i> , 2011 , 83,	3-3	62
19	Topological Fermi liquids from Coulomb interactions in the doped honeycomb lattice. <i>Physical Review Letters</i> , 2011 , 107, 106402	7-4	42
18	Quantum quench dynamics and population inversion in bilayer graphene. <i>Physical Review B</i> , 2010 , 82,	3-3	6

17	Substitutional disorder and charge localization in manganites. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 075601	1.8	1
16	Limits on charge carrier mobility in suspended graphene due to flexural phonons. <i>Physical Review Letters</i> , 2010 , 105, 266601	7.4	297
15	Electronic properties of a biased graphene bilayer. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 175503	3.8	121
14	New type of vacancy-induced localized States in multilayer graphene. <i>Physical Review Letters</i> , 2010 , 104, 036802	7.4	44
13	Valley symmetry breaking in bilayer graphene: a test of the minimal model. <i>Physical Review Letters</i> , 2009 , 103, 266804	7.4	29
12	Pinning and switching of magnetic moments in bilayer graphene. <i>New Journal of Physics</i> , 2009 , 11, 095017	7.9	16
11	Bilayer graphene: gap tunability and edge properties. <i>Journal of Physics: Conference Series</i> , 2008 , 129, 012002	0.3	26
10	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
9	Low-density ferromagnetism in biased bilayer graphene. <i>Physical Review Letters</i> , 2008 , 100, 186803	7.4	110
8	Localized states at zigzag edges of bilayer graphene. <i>Physical Review Letters</i> , 2008 , 100, 026802	7.4	121
7	Localized states at zigzag edges of multilayer graphene and graphite steps. <i>Europhysics Letters</i> , 2008 , 84, 17001	1.6	25
6	Gaped graphene bilayer: disorder and magnetic field effects. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 2311-2316	1.3	20
5	Biased bilayer graphene: semiconductor with a gap tunable by the electric field effect. <i>Physical Review Letters</i> , 2007 , 99, 216802	7.4	1524
4	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
3	Site dilution of quantum spins in the honeycomb lattice. <i>Physical Review B</i> , 2006 , 73,	3.3	47
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	Double exchange model for magnetic hexaborides. <i>Physical Review Letters</i> , 2004 , 93, 147202	7.4	22