

Pedro Ds Sacramento

List of Publications by Year in descending order

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113
papers

1,730
citations

279798

23
h-index

330143

37
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114
all docs

114
docs citations

114
times ranked

1047
citing authors

#	ARTICLE	IF	CITATIONS
1	Multichannel Kondo problem and some applications. <i>Advances in Physics</i> , 1993, 42, 641-682.	14.4	157
2	Low-temperature properties of a two-level system interacting with conduction electrons: An application of the overcompensated multichannel Kondo model. <i>Physical Review B</i> , 1991, 43, 13294-13304.	3.2	110
3	Electronic structure of the quasi-one-dimensional organic conductor TTF-TCNQ. <i>Physical Review B</i> , 2003, 68, .	3.2	106
4	The quadrupolar kondo effect: Lattice instability and large \hat{I}^3 -values. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 142, 245-250.	2.1	94
5	Fidelity between partial states as a signature of quantum phase transitions. <i>Physical Review A</i> , 2008, 77, .	2.5	71
6	Fate of Majorana fermions and Chern numbers after a quantum quench. <i>Physical Review E</i> , 2014, 90, 032138.	2.1	59

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#	ARTICLE	IF	CITATIONS
19	Curvature of levels and charge stiffness of one-dimensional spinless fermions. Physical Review B, 1999, 59, 7382-7392.	3.2	26
20	Finite-Frequency Optical Absorption in 1D Conductors and Mott-Hubbard Insulators. Physical Review Letters, 2000, 84, 4673-4676.	7.8	26
21	Thermodynamics of the n-channel Kondo model for general n and impurity spin S in a magnetic field. Journal of Physics Condensed Matter, 1991, 3, 9687-9696.	1.8	24
22	Finite-energy Landau liquid theory for the one-dimensional Hubbard model: Pseudoparticle energy bands and degree of localization/delocalization. Physical Review B, 2003, 68, .	3.2	24
23	Edge mode dynamics of quenched topological wires. Physical Review E, 2016, 93, 062117.	2.1	23
24	The Kondo system Fe: Comparison of theory and experiment. Solid State Communications, 1990, 73, 747-750.	1.9	22
25	Charge and spin edge currents in two-dimensional Floquet topological superconductors. Physical Review B, 2015, 91, .	3.2	22
26	The Hubbard model description of the TCNQ related singular features in photoemission of TTF-TCNQ. Journal of Physics Condensed Matter, 2006, 18, 5191-5212.	1.8	19
27	Reduced density matrix and order parameters of a topological insulator. Physical Review B, 2016, 94, .	3.2	19
28	Entanglement modes and topological phase transitions in superconductors. Physical Review B, 2014, 89, .	3.2	18
29	Thermodynamic properties of diluteCuCr alloys. Physical Review B, 1990, 42, 743-746.	3.2	17
30	Edge and bulk localization of Floquet topological superconductors. Physical Review B, 2019, 99, .	3.2	17
31	Zero finite-temperature charge stiffness within the half-filled 1D Hubbard model. Annals of Physics, 2013, 339, 484-509.	2.8	16
32	Instabilities of the Hubbard chain in a magnetic field. Physical Review B, 1997, 55, 7565-7578.	3.2	15
33	Superconductivity in theSU(N)Anderson lattice atU=∞. Physical Review B, 2000, 62, 9800-9807.	3.2	15
34	Strain-induced topological phase transition at zigzag edges of monolayer transition-metal dichalcogenides. Physical Review B, 2016, 94, .	3.2	15
35	Entanglement signatures of the quantum phase transition induced by a magnetic impurity in a superconductor. Physical Review B, 2007, 76, .	3.2	14
36	Pseudoparticle approach to 1D integrable quantum models. Physics Reports, 2018, 749, 1-90.	25.6	14

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37	Local-moment formation in the periodic Anderson model with superconducting correlations. Physical Review B, 2001, 65, .	3.2	13
38	Fidelity spectrum and phase transitions of quantum systems. Physical Review A, 2011, 84, .	2.5	13
39	Enhancement of the critical temperature in iron pnictide superconductors by finite-size effects. Physical Review B, 2011, 84, .	3.2	13
40	Comparison of theory and experiment for the dilute Kondo alloy Fe. Physica B: Condensed Matter, 1991, 171, 122-125.	2.7	12
41	Single vortex structure in two models of iron pnictide $s\pm$ superconductivity. New Journal of Physics, 2009, 11, 113008.	2.9	12
42	Hall conductivity as bulk signature of topological transitions in superconductors. Europhysics Letters, 2014, 105, 37011.	2.0	12
43	Coexistence of antiferromagnetism and superconductivity in the Anderson lattice. Journal of Physics Condensed Matter, 2003, 15, 6285-6300.	1.8	11
44	Magnetic impurities in a superconductor: Effect of domain walls and interference. Physical Review B, 2007, 76, .	3.2	11
45	Anomalous Hall effect in superconductors with spin-orbit interaction. Physical Review B, 2012, 85, .	3.2	11
46	Entanglement entropy and entanglement spectrum of triplet topological superconductors. Journal of Physics Condensed Matter, 2014, 26, 425702.	1.8	11
47	Spin torque on magnetic domain walls exerted by supercurrents. European Physical Journal B, 2010, 76, 251-259.	1.5	10
48	Detection of topological phases by quasilocal operators. Physical Review B, 2019, 99, .	3.2	10
49	Thermodynamics of a spin-S' impurity in a spin-S antiferromagnetic Heisenberg chain. Journal of Physics Condensed Matter, 1993, 5, 6999-7008.	1.8	9
50	Interplay of disorder and magnetic field in the superconducting vortex state. Physical Review B, 2004, 69, .	3.2	9
51	Superconductivity driven by chain coupling and electronic correlations. Europhysics Letters, 2004, 68, 839-845.	2.0	9
52	Emergent nesting of the Fermi surface from local-moment description of iron-pnictide high-Tc superconductors. European Physical Journal B, 2014, 87, 1.	1.5	9
53	Magnetic chains on a triplet superconductor. Journal of Physics Condensed Matter, 2015, 27, 445702.	1.8	9
54	Specific heat of the periodic Anderson model: From weak to strong coupling. Physical Review B, 2001, 64, .	3.2	8

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55	Finite-energy spectral function of an anisotropic two-dimensional system of coupled Hubbard chains. Physical Review B, 2011, 84, .	3.2	8
56	Thermodynamic properties of the two channel Kondo problem in a magnetic field. Physica B: Condensed Matter, 1990, 163, 231-233.	2.7	7
57	Some applications of the multichannel Kondo problem. Physica B: Condensed Matter, 1995, 206-207, 95-100.	2.7	7
58	Decoupling of the $S=1/2$ antiferromagnetic zig-zag ladder with anisotropy. Physical Review B, 2001, 63, .	3.2	7
59	Domain growth in the Heisenberg ferromagnet: Effective vector theory of the $S=1$ model. Physical Review B, 2006, 73, .	3.2	7
60	The TTF finite-energy spectral features in photoemission of TTF-TCNQ: the Hubbard-chain description. Journal of Physics Condensed Matter, 2008, 20, 022205.	1.8	7
61	Supercurrent-induced domain wall motion. Physical Review B, 2011, 83, .	3.2	7
62	Exponents of the spectral functions and dynamical structure factor of the 1D Lieb-Liniger Bose gas. Annals of Physics, 2016, 369, 102-127.	2.8	7
63	The Helmholtz free-energy functional for quantum spin-1/2 systems. Journal of Physics C: Solid State Physics, 1988, 21, 3099-3131.	1.5	6
64	Thermodynamics of the spin-S antiferromagnetic Heisenberg chain. European Physical Journal B, 1994, 94, 347-352.	1.5	6
65	Vorticity and magnetic shielding in a type-II superconductor. Journal of Physics Condensed Matter, 2006, 18, 8623-8650.	1.8	6
66	Hidden truth behind .NET's exception handling today. IET Software, 2007, 1, 233.	2.1	6
67	Electron transmission in normal metal/heavy-fermion superconductor junctions: A two-band model. Physical Review B, 2008, 77, .	3.2	6
68	Fermi surfaces of iron pnictide high- T_c superconductors from the limit of local magnetic moments. Physical Review B, 2011, 84, .	3.2	6
69	Andreev spectroscopy of Majorana states in topological superconductors with multipocket Fermi surfaces. Europhysics Letters, 2015, 110, 37008.	2.0	6
70	Singularities of the dynamical structure factors of the spin-1/2 chain at finite magnetic field. Journal of Physics Condensed Matter, 2015, 27, 406001.	1.8	6
71	Zero energy modes in a superconductor with ferromagnetic adatom chains and quantum phase transitions. Journal of Physics Condensed Matter, 2016, 28, 495703.	1.8	6
72	Applications of the overcompensated channel Kondo problem. Journal of Applied Physics, 1991, 70, 5806-5808.	2.5	5

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73	Thermodynamics of the attractive Hubbard chain. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 143-150.	1.8	5
74	Quasiparticle spectrum of a type-II superconductor in a high magnetic field with randomly pinned vortices. <i>Physical Review B</i> , 1999, 59, 8436-8439.	3.2	5
75	Local density of states of a strongly type-II-d-wave superconductor: The binary alloy model in a magnetic field. <i>Physical Review B</i> , 2005, 71, .	3.2	5
76	Confinement of monopole field lines in a superconductor at $T=0$. <i>Annals of Physics</i> , 2008, 323, 337-355.	2.8	5
77	Application of the stereographic projection to studies of magnetization dynamics described by the Landau-Lifshitz-Gilbert equation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 315211.	2.1	5
78	Superconductivity in the Anderson lattice: a finite- U slave boson description. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 065702.	1.8	5
79	Charge and spin transport in the one-dimensional Hubbard model. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 5135-5157.	1.8	4
80	Effects of disorder on the vortex charge. <i>Physical Review B</i> , 2006, 73, .	3.2	4
81	CURRENT-INDUCED SPIN TORQUE ON A DOMAIN WALL IN A MAGNETIC NANOWIRE. <i>International Journal of Modern Physics B</i> , 2007, 21, 1659-1663.	2.0	4
82	Correlated magnetic impurities in a superconductor: electron density profiles and robustness of superconductivity. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 025701.	1.8	4
83	Fermi points and topological quantum phase transitions in a multi-band superconductor. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 422002.	1.8	4
84	Quantum Monte Carlo algorithms using coherent states. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 207, 584-607.	2.6	3
85	Gapless spectrum in a class of exchange models with long-range interactions. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 10687-10700.	1.8	3
86	Haldane gap in a $S=1$ exchange model with long-range interactions. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1997, 101, 441-445.	1.1	3
87	Hall conductance of a pinned vortex lattice in a high magnetic field. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 4861-4870.	1.8	3
88	Spin dynamics of the $S=1/2$ antiferromagnetic zig-zag ladder with anisotropy. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 591-604.	1.8	3
89	Non-equilibrium properties of the Heisenberg model in a time-dependent magnetic field. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 327, 461-476.	2.6	3
90	Theory of Andreev reflection in a two-orbital model of iron-pnictide superconductors. <i>Journal of Physics: Conference Series</i> , 2010, 200, 012008.	0.4	3

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109	New method for evaluation of finite-energy few-electron spectral function expressions. European Physical Journal Special Topics, 2004, 114, 45-49.	0.2	0
110	Application of the pseudofermion dynamical theory to the properties of quasi-1D compounds. Physica B: Condensed Matter, 2005, 359-361, 1427-1429.	2.7	0
111	Effect of impurities and random pinning on the superconducting vortex state. Physica B: Condensed Matter, 2005, 359-361, 542-544.	2.7	0
112	Spin accumulation, spin currents, and torque, in the problem of motion of a sharp domain wall in magnetic nanowires. Physica Status Solidi (B): Basic Research, 2006, 243, 193-196.	1.5	0
113	Effect of Majorana Fermions on Andreev Spectroscopy of Multiband Topological Superconductors. Acta Physica Polonica A, 2015, 128, 210-212.	0.5	0