

Heron C G Caldas

List of Publications by Year in descending order

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papers

647
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840776

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34
all docs

34
docs citations

34
times ranked

305
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase Separation in Asymmetrical Fermion Superfluids. Physical Review Letters, 2003, 91, 247002.	7.8	274
2	Cold asymmetrical fermion superfluids. Physical Review A, 2004, 69, .	2.5	104
3	Magnetization of planar four-fermion systems. Physical Review B, 2009, 80, .	3.2	38
4	Critical dopant concentration in polyacetylene and phase diagram from a continuous four-Fermi model. Physical Review B, 2008, 77, .	3.2	29
5	Asymmetrically doped polyacetylene. Nuclear Physics B, 2009, 807, 651-658.	2.5	19
6	Finite-temperature phase diagram of quasi-two-dimensional imbalanced Fermi gases beyond mean field. Physical Review A, 2012, 86, .	2.5	14
7	Topological states in normal and superconducting p -wave chains. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 3340-3347.	2.1	14
8	Phase transition in asymmetrical superfluids: Equal Fermi surfaces. Physical Review D, 2005, 72, .	4.7	13
9	Superfluidity in two-dimensional imbalanced Fermi gases. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P10019.	2.3	13
10	Renormalization group approach to a p-wave superconducting model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1561-1565.	2.1	12
11	Surface energy in cold asymmetrical fermion superfluids. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P11012-P11012.	2.3	11
12	Topological transitions in multi-band superconductors. Annals of Physics, 2014, 348, 1-14.	2.8	11
13	A two-band model for p-wave superconductivity. Annals of Physics, 2017, 384, 211-224.	2.8	11
14	An effective field theory model for one-dimensional CH chains: effects at finite chemical potential, temperature and external Zeeman magnetic field. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P10005.	2.3	9
15	Quantum normal-to-inhomogeneous superconductor phase transition in nearly two-dimensional metals. Physical Review B, 2012, 86, .	3.2	8
16	Mechanism for enhancement of superconductivity in multi-band systems with odd parity hybridization. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P07015.	2.3	8
17	<small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:struct-bib="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:sc="http://www.elsevier.com/"/></small>	2.8	8
18	Temperature effects in a Fermi gas with population imbalance. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P08013.	2.3	7

#	ARTICLE	IF	CITATIONS
19	Nesting and lifetime effects in the FFLO state of quasi-one-dimensional imbalanced Fermi gases. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 155301.	1.5	7
20	Influence of induced interactions on superfluid properties of quasi-two-dimensional dilute Fermi gases with spin-orbit coupling. Physical Review A, 2013, 88, .	2.5	7
21	Neutral pion decay width in a hot and dense medium. Physical Review C, 2004, 69, .	2.9	6
22	Finite temperature phase diagrams of a two-band model of superconductivity. Annals of Physics, 2018, 394, 17-32.	2.8	5
23	Asymmetrically doped one-dimensional trans-polymers. Physica B: Condensed Matter, 2009, 404, 3159-3162.	2.7	4
24	Effects of anisotropic correlations in fermionic zero-energy bound states of topological phases. Physical Review B, 2020, 101, .	3.2	4
25	Temperature effects on the magnetization of quasi-one-dimensional Peierls distorted materials. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P03027.	2.3	3
26	Non-perturbative corrections to the quasiparticle velocity in graphene. Physica B: Condensed Matter, 2020, 577, 411814.	2.7	2
27	The Gor'kov and Melik-Barkhudarov Correction to the Mean-Field Critical Field Transition to Fulde-Ferrell-Larkin-Ovchinnikov States. Annalen Der Physik, 2020, 532, 2000222.	2.4	2
28	Superfluid-normal quantum phase transitions in an imbalanced Fermi gas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 085301.	1.5	2
29	Leading order k_{F} corrections to the free energy and phase separation in two-component Fermion systems. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 103102.	2.3	1
30	The Gor'kov and Melik-Barkhudarov Correction to an Imbalanced Fermi Gas in the Presence of Impurities. Annalen Der Physik, 2022, 534, .	2.4	1
31	Infrared behavior of the pressure in λ_3 theory reexamined. Physical Review D, 2004, 70, .	4.7	0
32	Heavy mesons spectra in a semi-analytical quantum relativistic approach. , 2013, , .		0
33	Induced p-wave superfluidity in imbalanced Fermi gases in a synthetic gauge field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 185301.	1.5	0
34	Effective fermion mass in relativistic and non-relativistic systems. New Journal of Physics, 2021, 23, 063019.	2.9	0