

# Jerome Cayssol

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,608  
citations

361045

20  
h-index

301761

39  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1632  
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological and geometrical aspects of band theory. JPhys Materials, 2021, 4, 034007.	1.8	41
2	Conservation of chirality at a junction between two Weyl semimetals. Physical Review B, 2021, 104, .	1.1	3
3	Nonuniform superconductivity in wires with strong spin-orbit coupling. European Physical Journal B, 2020, 93, 1.	0.6	1
4	Interplay between superconductivity and spin-dependent fields in nanowire-based systems. Physical Review B, 2020, 101, .	1.1	5
5	Photocurrent and photoconductance of a helical edge state. Physical Review B, 2019, 100, .	1.1	2
6	Generation of a superconducting vortex via Néel skyrmions. Physical Review B, 2019, 99, .	1.1	29
7	Ballistic transport through irradiated graphene. Physical Review B, 2017, 96, .	1.1	16
8	Andreev spectrum of a Josephson junction with spin-split superconductors. Europhysics Letters, 2016, 115, 67001.	0.7	4
9	Topological superconductivity in the one-dimensional interacting Creutz model. Journal of Physics: Conference Series, 2015, 592, 012133.	0.3	0
10	From fractionally charged solitons to Majorana bound states in a one-dimensional interacting model. Physical Review B, 2014, 89, .	1.1	56
11	Dynamical response of dissipative helical edge states. Physical Review B, 2014, 90, .	1.1	6
12	Floquet topological insulators. Physica Status Solidi - Rapid Research Letters, 2013, 7, 101-108.	1.2	377
13	Persistent currents in Dirac fermion rings. Physical Review B, 2013, 88, .	1.1	28
14	Introduction to Dirac materials and topological insulators. Comptes Rendus Physique, 2013, 14, 760-778.	0.3	73
15	Quasiballistic Transport of Dirac Fermions in a $2\text{S}^2\text{e}^{\frac{71}{m}}$ Physical Review Letters, 2013, 110, 186806.		
16	Fractional Topological Phases and Broken Time-Reversal Symmetry in Strained Graphene. Physical Review Letters, 2012, 108, 266801.	2.9	90
17	Nonequilibrium Transport Through a Gate-Controlled Barrier on the Quantum Spin Hall Edge. Physical Review Letters, 2012, 109, 216602.	2.9	21
18	Optically Engineering the Topological Properties of a Spin Hall Insulator. Physical Review Letters, 2012, 108, 056602.	2.9	178

#	ARTICLE	IF	CITATIONS
19	Interfacial charge and spin transport in $Z_2$ topological insulators. Physical Review B, 2011, 83, .	1.1	19
20	Spin Hall effect at interfaces between HgTe/CdTe quantum wells and metals. Physical Review B, 2011, 84, .	1.1	12
21	Klein tunneling in graphene under substrate electric field. Physics Procedia, 2010, 3, 1243-1248.	1.2	3
22	Andreev spectroscopy of doped HgTe quantum wells. Physical Review B, 2010, 82, .	1.1	13
23	Long-range singlet proximity effect in ferromagnetic nanowires. Physical Review B, 2010, 82, .	1.1	16
24	Probing the helical edge states of a topological insulator by Cooper-pair injection. Physical Review B, 2010, 82, .	1.1	60
25	Spin-orbit effects in a graphene bipolar pn junction. Europhysics Letters, 2009, 87, 47005.	0.7	38
26	Oscillations of magnetization and conductivity in anisotropic Fulde-Ferrell-Larkin-Ovchinnikov superconductors. Physical Review B, 2009, 79, .	1.1	1
27	Contact resistance and shot noise in graphene transistors. Physical Review B, 2009, 79, .	1.1	98
28	Superconducting fluctuations near the FFLO state. Journal of Physics: Conference Series, 2009, 150, 052121.	0.3	1
29	Crossed Andreev Reflection in a Graphene Bipolar Transistor. Physical Review Letters, 2008, 100, 147001.	2.9	119
30	Nonsinusoidal current-phase relation in strongly ferromagnetic and moderately disordered SFS junctions. Physical Review B, 2008, 78, .	1.1	31
31	Anomalous fluctuation regimes at FFLO transition. Europhysics Letters, 2007, 79, 67001.	0.7	20
32	Anomalous (H,T) phase diagram in bilayered superconducting systems. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1028-1030.	0.6	1
33	Incomplete Andreev reflection in a clean SFS junction. Journal of Magnetism and Magnetic Materials, 2006, 300, 94-97.	1.0	2
34	Josephson coupling through ferromagnetic heterojunctions with noncollinear magnetizations. Physical Review B, 2006, 74, .	1.1	59
35	Competition between $\pi$ -coupling and Fulde-Ferrell-Larkin-Ovchinnikov modulation in a periodic array of ferromagnetic-superconducting bilayers of atomic thickness. Physical Review B, 2006, 73, .	1.1	5
36	Incomplete Andreev reflection in a clean superconductor-ferromagnet-superconductor junction. Physical Review B, 2005, 71, .	1.1	20

#	ARTICLE	IF	CITATIONS
37	Field-Induced Superconductivity with an Enhanced and Tunable Paramagnetic Limit. Physical Review Letters, 2005, 95, 167003.	2.9	11
38	Exchange-induced ordinary reflection in a single-channel superconductor-ferromagnet-superconductor junction. Physical Review B, 2004, 70, .	1.1	23
39	Isolated hybrid normal/superconducting ring in a magnetic flux: From persistent current to Josephson current. Physical Review B, 2003, 67, .	1.1	25
40	Electronic Raman scattering on the underdoped $\text{HgBa}_2\text{Ca}_2\text{Cu}_3\text{O}_{8+\delta}$ high- $T_c$ superconductor: The symmetry of the order parameter. Physical Review B, 2000, 61, 7122-7129.	1.1	30