

Roberto Raimondi

List of Publications by Year in descending order

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29
papers

1,130
citations

471509

17
h-index

526287

27
g-index

29
all docs

29
docs citations

29
times ranked

926
citing authors

#	ARTICLE	IF	CITATIONS
1	Microscopic Theory of the Inverse Edelstein Effect. <i>Physical Review Letters</i> , 2014, 112, 096601.	7.8	224
2	Spin-Hall effect in a disordered two-dimensional electron system. <i>Physical Review B</i> , 2005, 71, .	3.2	168
3	Optimal Charge-to-Spin Conversion in Graphene on Transition-Metal Dichalcogenides. <i>Physical Review Letters</i> , 2017, 119, 196801.	7.8	99
4	Quasiclassical approach to the spin Hall effect in the two-dimensional electron gas. <i>Physical Review B</i> , 2006, 74, .	3.2	83
5	Spin-orbit interaction in a two-dimensional electron gas: A $SO(2)$ formulation. <i>Annalen Der Physik</i> , 2012, 524, .	2.4	75
6	Non-Abelian gauge fields in the gradient expansion: Generalized Boltzmann and Eilenberger equations. <i>Physical Review B</i> , 2010, 82, .	3.2	68
7	Covariant Conservation Laws and the Spin Hall Effect in Dirac-Rashba Systems. <i>Physical Review Letters</i> , 2017, 119, 246801.	7.8	46
8	Theory of coupled spin-charge transport due to spin-orbit interaction in inhomogeneous two-dimensional electron liquids. <i>Physical Review B</i> , 2014, 90, .	3.2	42
9	Spin-charge locking and tunneling into a helical metal. <i>Europhysics Letters</i> , 2011, 93, 67004.	2.0	39
10	Spin relaxation in narrow wires of a two-dimensional electron gas. <i>Physical Review B</i> , 2006, 74, .	3.2	36
11	Tuning the spin Hall effect in a two-dimensional electron gas. <i>Europhysics Letters</i> , 2009, 87, 37008.	2.0	36
12	Spin-orbit induced anisotropy in the magnetoconductance of two-dimensional metals. <i>Physical Review B</i> , 2001, 64, .	3.2	32
13	Theory of the Spin Galvanic Effect at Oxide Interfaces. <i>Physical Review Letters</i> , 2017, 119, 256801.	7.8	31
14	Theory of current-induced spin polarization in an electron gas. <i>Physical Review B</i> , 2017, 95, .	3.2	30
15	Magnetoconductance of a two-dimensional metal in the presence of spin-orbit coupling. <i>European Physical Journal B</i> , 2002, 25, 483-495.	1.5	26
16	Quasiclassical theory of charge transport in disordered interacting electron systems. <i>Annalen Der Physik</i> , 2003, 12, 471-516.	2.4	21
17	Interplay of intrinsic and extrinsic mechanisms to the spin Hall effect in a two-dimensional electron gas. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 952-955.	2.7	17
18	Multigap superconductivity at an unconventional Lifshitz transition in a three-dimensional Rashba heterostructure at the atomic limit. <i>Physical Review B</i> , 2021, 103, .	3.2	12

#	ARTICLE	IF	CITATIONS
19	Resonant multi-gap superconductivity at room temperature near a Lifshitz topological transition in sulfur hydrides. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	10
20	Microscopic Linear Response Theory of Spin Relaxation and Relativistic Transport Phenomena in Graphene. <i>Condensed Matter</i> , 2018, 3, 18.	1.8	9
21	Theory of the inverse spin galvanic effect in quantum wells. <i>Physical Review B</i> , 2018, 97, .	3.2	8
22	Inverse Spin Galvanic Effect in the Presence of Impurity Spin-Orbit Scattering: A Diagrammatic Approach. <i>Condensed Matter</i> , 2017, 2, 17.	1.8	7
23	Spin drift-diffusion for two-subband quantum wells. <i>Physical Review B</i> , 2021, 103, .	3.2	5
24	Spin Hall and inverse spin galvanic effects in graphene with strong interfacial spin-orbit coupling: A quasi-classical Green's function approach. <i>Physical Review Research</i> , 2021, 3, .	3.6	3
25	Reprint of : Spin polarization induced by an electric field in the presence of weak localization effects. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 82, 151-159.	2.7	1
26	Spin polarization induced by an electric field in the presence of weak localization effects. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 75, 370-378.	2.7	1
27	Quantum noise in the spin transfer torque effect. <i>Physical Review B</i> , 2019, 100, .	3.2	1
28	On the Evaluation of the Spin Galvanic Effect in Lattice Models with Rashba Spin-Orbit Coupling. <i>Condensed Matter</i> , 2018, 3, 22.	1.8	0
29	Nonlinear inverse spin galvanic effect in anisotropic disorder-free systems. <i>European Physical Journal D</i> , 2019, 73, 1.	1.3	0