

Roberto Raimondi

List of Publications by Year in descending order

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29
papers

1,130
citations

471509

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526287

27
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docs citations

29
times ranked

926
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Spin drift-diffusion for two-subband quantum wells. <i>Physical Review B</i> , 2021, 103, .	3.2	5
3	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
4	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
5	Nonlinear inverse spin galvanic effect in anisotropic disorder-free systems. <i>European Physical Journal D</i> , 2019, 73, 1.	1.3	0
6	Quantum noise in the spin transfer torque effect. <i>Physical Review B</i> , 2019, 100, .	3.2	1
7	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
8	Microscopic Linear Response Theory of Spin Relaxation and Relativistic Transport Phenomena in Graphene. <i>Condensed Matter</i> , 2018, 3, 18.	1.8	9
9	Theory of the inverse spin galvanic effect in quantum wells. <i>Physical Review B</i> , 2018, 97, .	3.2	8
10	Covariant Conservation Laws and the Spin Hall Effect in Dirac-Rashba Systems. <i>Physical Review Letters</i> , 2017, 119, 246801.	7.8	46
11	Optimal Charge-to-Spin Conversion in Graphene on Transition-Metal Dichalcogenides. <i>Physical Review Letters</i> , 2017, 119, 196801.	7.8	99
12	Theory of current-induced spin polarization in an electron gas. <i>Physical Review B</i> , 2017, 95, .	3.2	30
13	Theory of the Spin Galvanic Effect at Oxide Interfaces. <i>Physical Review Letters</i> , 2017, 119, 256801.	7.8	31
14	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
15	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
16	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
17	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
18	Microscopic Theory of the Inverse Edelstein Effect. <i>Physical Review Letters</i> , 2014, 112, 096601.	7.8	224

#	ARTICLE	IF	CITATIONS
19	Spin-orbit interaction in a two-dimensional electron gas: A $SU(2)$ formulation. Annalen Der Physik, 2012, 524, .	2.4	75
20	Spin-charge locking and tunneling into a helical metal. Europhysics Letters, 2011, 93, 67004.	2.0	39
21	Interplay of intrinsic and extrinsic mechanisms to the spin Hall effect in a two-dimensional electron gas. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 952-955.	2.7	17
22	Non-Abelian gauge fields in the gradient expansion: Generalized Boltzmann and Eilenberger equations. Physical Review B, 2010, 82, .	3.2	68
23	Tuning the spin Hall effect in a two-dimensional electron gas. Europhysics Letters, 2009, 87, 37008.	2.0	36
24	Spin relaxation in narrow wires of a two-dimensional electron gas. Physical Review B, 2006, 74, .	3.2	36
25	Quasiclassical approach to the spin Hall effect in the two-dimensional electron gas. Physical Review B, 2006, 74, .	3.2	83
26	Spin-Hall effect in a disordered two-dimensional electron system. Physical Review B, 2005, 71, .	3.2	168
27	Quasiclassical theory of charge transport in disordered interacting electron systems. Annalen Der Physik, 2003, 12, 471-516.	2.4	21
28	Magnetoconductance of a two-dimensional metal in the presence of spin-orbit coupling. European Physical Journal B, 2002, 25, 483-495.	1.5	26
29	Spin-orbit induced anisotropy in the magnetoconductance of two-dimensional metals. Physical Review B, 2001, 64, .	3.2	32