

Ivar Martin

List of Publications by Year in descending order

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96
papers

4,722
citations

109321

35
h-index

95266

68
g-index

96
all docs

96
docs citations

96
times ranked

4967
citing authors

#	ARTICLE	IF	CITATIONS
1	https://arxiv.org/abs/1908.07253 First-principles study of magnetic states and the anomalous Hall conductivity of $M_{6-x}Nb_xS_6$		

#	ARTICLE	IF	CITATIONS
19	Topological frequency conversion in a driven dissipative quantum cavity. Physical Review B, 2019, 99, .	3.2	24
20	Magnetization-governed magnetoresistance anisotropy in the topological semimetal CeBi. Physical Review B, 2019, 100, .	3.2	10
21	Theory of Phonon-Mediated Superconductivity in Twisted Bilayer Graphene. Physical Review Letters, 2018, 121, 257001.	7.8	355
22	Nematic and chiral superconductivity induced by odd-parity fluctuations. Physical Review B, 2017, 96, .	3.2	30
23	Topological Frequency Conversion in Strongly Driven Quantum Systems. Physical Review X, 2017, 7, .	8.9	103
24	Theory of parametrically amplified electron-phonon superconductivity. Physical Review B, 2017, 96, .	3.2	110
25	Majorana Kramers pair in a nematic vortex. Physical Review B, 2017, 95, .	3.2	15
26	Controlling the Topological Sector of Magnetic Solitons in Exfoliated Crystals. Physical Review Letters, 2017, 118, 257203.	7.8	54
27	Dynamical Cooper pairing in nonequilibrium electron-phonon systems. Physical Review B, 2016, 94, .	3.2	129
28	Oscillatory Noncollinear Magnetism Induced by Interfacial Charge Transfer in Superlattices Composed of Metallic Oxides. Physical Review X, 2016, 6, .	8.9	30
29	Nematic quantum liquid crystals of bosons in frustrated lattices. Physical Review B, 2016, 93, .	3.2	7
30	Weak crystallization theory of metallic alloys. Physical Review B, 2016, 93, .	3.2	5
31	Heptagraphene: Tunable Dirac Cones in a Graphitic Structure. Scientific Reports, 2016, 6, 33220.	3.3	3
32	noise and generalized diffusion in random Heisenberg spin systems. Physical Review B, 2015, 92, .	3.2	23
33	Coulomb Bound States of Strongly Interacting Photons. Physical Review Letters, 2015, 115, 123601.	7.8	55
34	Quantum Hall ice. Physical Review B, 2014, 90, .	3.2	21
35	Nonequilibrium theory of tunneling into a localized state in a superconductor. Physical Review B, 2014, 90, .	3.2	20
36	Gopalakrishnan, Martin, and Demler Reply:. Physical Review Letters, 2014, 113, 079603.	7.8	2

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37	Anyons in Integer Quantum Hall Magnets. <i>Physical Review X</i> , 2013, 3, .	8.9	16
38	Quantum Quasicrystals of Spin-Orbit-Coupled Dipolar Bosons. <i>Physical Review Letters</i> , 2013, 111, 185304.	7.8	64
39	Polaronic model of two-level systems in amorphous solids. <i>Physical Review B</i> , 2013, 87, .	3.2	38
40	Majorana fermions in superconducting helical magnets. <i>Physical Review B</i> , 2012, 85, .	3.2	116
41	Marginal topological properties of graphene: a comparison with topological insulators. <i>Physica Scripta</i> , 2012, T146, 014021.	2.5	15
42	Controllable chirality-induced geometrical Hall effect in a frustrated highly correlated metal. <i>Nature Communications</i> , 2012, 3, 1067.	12.8	51
43	Topological origin of subgap conductance in insulating bilayer graphene. <i>Nature Physics</i> , 2011, 7, 38-42.	16.7	105
44	Method for Detecting Superconducting Stripes in High-Temperature Superconductors Based on Nonlinear Resistivity Measurements. <i>Physical Review Letters</i> , 2011, 107, 127001.	7.8	5
45	Tunable Magnetic Interaction at the Atomic Scale in Oxide Heterostructures. <i>Physical Review Letters</i> , 2010, 105, 167206.	7.8	31
46	Effective Low-Energy Model for f -Electron Delocalization. <i>Physical Review Letters</i> , 2010, 105, 086402.	7.8	0
47	Nernst effect and diamagnetic response in a stripe model of superconducting cuprates. <i>Europhysics Letters</i> , 2010, 91, 67001.	2.0	11
48	Marginality of bulk-edge correspondence for single-valley Hamiltonians. <i>Physical Review B</i> , 2010, 82, .	3.2	63
49	Stability of the Spontaneous Quantum Hall State in the Triangular Kondo-Lattice Model. <i>Physical Review Letters</i> , 2010, 105, 266405.	7.8	76
50	Josephson Qubits as Probes of $1/f$ Noise. <i>Lecture Notes in Physics</i> , 2010, , 75-85.	0.7	0
51	Transport in disordered graphene nanoribbons. <i>Physical Review B</i> , 2009, 79, .	3.2	88
52	Thermodynamical stability of odd-frequency superconducting state. <i>Physical Review B</i> , 2009, 79, .	3.2	55
53	Local Ferromagnetic Resonance Imaging with Magnetic Resonance Force Microscopy. <i>Physical Review Letters</i> , 2008, 100, 197601.	7.8	44
54	Self-consistent theory of molecular switching. <i>Physical Review B</i> , 2008, 78, .	3.2	66

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55	Spatial characterization of the magnetic field profile of a probe tip used in magnetic resonance force microscopy. Applied Physics Letters, 2008, 92, 214104.	3.3	6
56	Topological Confinement in Bilayer Graphene. Physical Review Letters, 2008, 100, 036804.	7.8	424
57	Kondo Stripes in an Anderson-Heisenberg Model of Heavy Fermion Systems. Physical Review Letters, 2008, 100, 236403.	7.8	9
58	Itinerant Electron-Driven Chiral Magnetic Ordering and Spontaneous Quantum Hall Effect in Triangular Lattice Models. Physical Review Letters, 2008, 101, 156402.	7.8	268
59	Spin-density induced by electromagnetic wave in two-dimensional electron gas. Europhysics Letters, 2007, 78, 27001.	2.0	10
60	Transport through normal-metal-graphene contacts. Physical Review B, 2007, 76, .	3.2	78
61	Measurement of Energy Eigenstates by a Slow Detector. Physical Review Letters, 2007, 98, 120401.	7.8	34
62	Ferromagnetic resonance force microscopy on a thin permalloy film. Applied Physics Letters, 2007, 90, 234105.	3.3	16
63	Efficiency of thin film photocells. Optics Communications, 2007, 277, 109-113.	2.1	14
64	1/f NOISE AND TWO-LEVEL SYSTEMS IN JOSEPHSON QUBITS. , 2007, , 343-356.		5
65	Renormalization of Resonant Tunneling in MOSFETs. Journal of Computational and Theoretical Nanoscience, 2007, 4, 772-776.	0.4	0
66	Low- and High-Frequency Noise from Coherent Two-Level Systems. Physical Review Letters, 2005, 94, 127002.	7.8	146
67	Tunneling Spectroscopy of Two-Level Systems Inside a Josephson Junction. Physical Review Letters, 2005, 95, 127002.	7.8	40
68	Effects of Strong Correlations in Single Electron Traps in Field-Effect Transistors. IEEE Nanotechnology Magazine, 2005, 4, 90-95.	2.0	1
69	Enhancement of superconductivity by local inhomogeneities. Physical Review B, 2005, 72, .	3.2	64
70	Output spectrum of a measuring device at arbitrary voltage and temperature. Europhysics Letters, 2004, 67, 840-846.	2.0	24
71	Electrical detection of the spin resonance of a single electron in a silicon field-effect transistor. Nature, 2004, 430, 435-439.	27.8	281
72	Dynamics and melting of stripes, crystals, and bubbles with quenched disorder. Physica D: Nonlinear Phenomena, 2004, 193, 303-309.	2.8	18

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73	Ground-state cooling of mechanical resonators. Physical Review B, 2004, 69, .	3.2	157
74	Local Edge Modes in Doped Cuprates with Checkerboard Polaronic Heterogeneity. Journal of the Physical Society of Japan, 2004, 73, 3223-3226.	1.6	11
75	Theory of spin relaxation in magnetic resonance force microscopy. Applied Physics Letters, 2003, 82, 1278-1280.	3.3	35
76	Spin-drift transport and its applications. Physical Review B, 2003, 67, .	3.2	23
77	Specific heat at the transition in a superconductor with fluctuating magnetic moments. Physical Review B, 2003, 68, .	3.2	13
78	Depinning and dynamics of systems with competing interactions in quenched disorder. Europhysics Letters, 2003, 61, 221-227.	2.0	37
79	Theory of Scanning Tunneling Microscopy Measurement of Single Spin Decoherence in a Superconductor. Physical Review Letters, 2002, 88, 037003.	7.8	7
80	Magnetic-field dependence of electron spin relaxation inn-type semiconductors. Physical Review B, 2002, 66, .	3.2	50
81	Spin and Charge Order around Vortices and Impurities in High-TcSuperconductors. Physical Review Letters, 2002, 89, 067003.	7.8	107
82	Potential applications of a scanning tunnelling microscope with a superconducting tip. Superconductor Science and Technology, 2002, 15, 446-450.	3.5	5
83	The Kondo Effect and Weak Localization. , 2001, , 11-22.		0
84	Doping-induced inhomogeneity in high-Tc superconductors. Physica C: Superconductivity and Its Applications, 2001, 357-360, 46-48.	1.2	37
85	A minimal model of striped superconductors. Europhysics Letters, 2001, 56, 849-855.	2.0	24
86	Josephson scanning tunneling microscopy. Physical Review B, 2001, 64, .	3.2	41
87	Local structure of impurity states in d-wave superconductors. Physica C: Superconductivity and Its Applications, 2000, 341-348, 125-128.	1.2	2
88	Probing pseudogap by Josephson tunneling. Physical Review B, 2000, 62, R6124-R6126.	3.2	10
89	dx^2-y^2 pairing of composite excitations in the two-dimensional Hubbard model. Physical Review B, 2000, 62, 4300-4308.	3.2	19
90	Finite-Temperature Density Instability at High Landau Level Occupancy. Physical Review Letters, 2000, 84, 1288-1291.	7.8	71

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91	COMPETING QUANTUM ORDERINGS IN CUPRATE SUPERCONDUCTORS: A MINIMAL MODEL. International Journal of Modern Physics B, 2000, 14, 3567-3576.	2.0	43
92	Exchange coupling and high-temperature transport in M(phthalocyanine)I conductors. Physical Review B, 1999, 60, 530-532.	3.2	8
93	Superconductivity in a two-dimensional electron gas. Nature, 1998, 395, 253-257.	27.8	103
94	Size Dependence in the Disordered Kondo Problem. Physical Review Letters, 1997, 78, 114-117.	7.8	33
95	Positive magnetoresistance in quasi-one-dimensional conductors. Physical Review B, 1997, 56, 14883-14885.	3.2	1
96	Local pairing at impurities in BCS superconductors can enhance T_c . Physical Review B, 1997, 56, 14650-14654.	3.2	8