

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
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96
all docs

96
docs citations

96
times ranked

4967
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological Confinement in Bilayer Graphene. <i>Physical Review Letters</i> , 2008, 100, 036804.	7.8	424
2	Theory of Phonon-Mediated Superconductivity in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2018, 121, 257001.	7.8	355
3	Topological Insulators in Twisted Transition Metal Dichalcogenide Homobilayers. <i>Physical Review Letters</i> , 2019, 122, 086402.	7.8	333
4	Electrical detection of the spin resonance of a single electron in a silicon field-effect transistor. <i>Nature</i> , 2004, 430, 435-439.	27.8	281
5	Itinerant Electron-Driven Chiral Magnetic Ordering and Spontaneous Quantum Hall Effect in Triangular Lattice Models. <i>Physical Review Letters</i> , 2008, 101, 156402.	7.8	268
6	Ground-state cooling of mechanical resonators. <i>Physical Review B</i> , 2004, 69, .	3.2	157
7	Low- and High-Frequency Noise from Coherent Two-Level Systems. <i>Physical Review Letters</i> , 2005, 94, 127002.	7.8	146
8	Dynamical Cooper pairing in nonequilibrium electron-phonon systems. <i>Physical Review B</i> , 2016, 94, .	3.2	129
9	Majorana fermions in superconducting helical magnets. <i>Physical Review B</i> , 2012, 85, .	3.2	116
10	Theory of parametrically amplified electron-phonon superconductivity. <i>Physical Review B</i> , 2017, 96, .	3.2	110
11	Spin and Charge Order around Vortices and Impurities in High-Tc Superconductors. <i>Physical Review Letters</i> , 2002, 89, 067003.	7.8	107
12	Topological origin of subgap conductance in insulating bilayer graphene. <i>Nature Physics</i> , 2011, 7, 38-42.	16.7	105
13	Superconductivity in a two-dimensional electron gas. <i>Nature</i> , 1998, 395, 253-257.	27.8	103
14	Topological Frequency Conversion in Strongly Driven Quantum Systems. <i>Physical Review X</i> , 2017, 7, .	8.9	103
15	Transport in disordered graphene nanoribbons. <i>Physical Review B</i> , 2009, 79, .	3.2	88
16	Transport through normal-metal-graphene contacts. <i>Physical Review B</i> , 2007, 76, .	3.2	78
17	Systematic Construction of Scarred Many-Body Dynamics in 1D Lattice Models. <i>Physical Review Letters</i> , 2019, 123, 030601.	7.8	77
18	Stability of the Spontaneous Quantum Hall State in the Triangular Kondo-Lattice Model. <i>Physical Review Letters</i> , 2010, 105, 266405.	7.8	76

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19	Finite-Temperature Density Instability at High Landau Level Occupancy. Physical Review Letters, 2000, 84, 1288-1291.	7.8	71
20	Self-consistent theory of molecular switching. Physical Review B, 2008, 78, .	3.2	66
21	Enhancement of superconductivity by local inhomogeneities. Physical Review B, 2005, 72, .	3.2	64
22	Quantum Quasicrystals of Spin-Orbit-Coupled Dipolar Bosons. Physical Review Letters, 2013, 111, 185304.	7.8	64
23	Marginality of bulk-edge correspondence for single-valley Hamiltonians. Physical Review B, 2010, 82, .	3.2	63
24	Thermodynamical stability of odd-frequency superconducting state. Physical Review B, 2009, 79, .	3.2	55
25	Coulomb Bound States of Strongly Interacting Photons. Physical Review Letters, 2015, 115, 123601.	7.8	55
26	Controlling the Topological Sector of Magnetic Solitons in Exfoliated Crystals. Physical Review Letters, 2017, 118, 257203.	7.8	54
27	Controllable chirality-induced geometrical Hall effect in a frustrated highly correlated metal. Nature Communications, 2012, 3, 1067.	12.8	51
28	Magnetic-field dependence of electron spin relaxation in n-type semiconductors. Physical Review B, 2002, 66, .	3.2	50
29	Local Ferromagnetic Resonance Imaging with Magnetic Resonance Force Microscopy. Physical Review Letters, 2008, 100, 197601.	7.8	44
30	COMPETING QUANTUM ORDERINGS IN CUPRATE SUPERCONDUCTORS: A MINIMAL MODEL. International Journal of Modern Physics B, 2000, 14, 3567-3576.	2.0	43
31	Josephson scanning tunneling microscopy. Physical Review B, 2001, 64, .	3.2	41
32	Tunneling Spectroscopy of Two-Level Systems Inside a Josephson Junction. Physical Review Letters, 2005, 95, 127002.	7.8	40
33	Polaronic model of two-level systems in amorphous solids. Physical Review B, 2013, 87, .	3.2	38
34	Doping-induced inhomogeneity in high-Tc superconductors. Physica C: Superconductivity and Its Applications, 2001, 357-360, 46-48.	1.2	37
35	Depinning and dynamics of systems with competing interactions in quenched disorder. Europhysics Letters, 2003, 61, 221-227.	2.0	37
36	Giant anomalous Hall effect in quasi-two-dimensional layered antiferromagnet $\text{Co}_2\text{V}_2\text{O}_7$. Physical Review Research, 2020, 2, .	2.0	36

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37	Theory of spin relaxation in magnetic resonance force microscopy. Applied Physics Letters, 2003, 82, 1278-1280.	3.3	35
38	Measurement of Energy Eigenstates by a Slow Detector. Physical Review Letters, 2007, 98, 120401.	7.8	34
39	Size Dependence in the Disordered Kondo Problem. Physical Review Letters, 1997, 78, 114-117.	7.8	33
40	Tunable Magnetic Interaction at the Atomic Scale in Oxide Heterostructures. Physical Review Letters, 2010, 105, 167206.	7.8	31
41	Oscillatory Noncollinear Magnetism Induced by Interfacial Charge Transfer in Superlattices Composed of Metallic Oxides. Physical Review X, 2016, 6, .	8.9	30
42	Nematic and chiral superconductivity induced by odd-parity fluctuations. Physical Review B, 2017, 96, .	3.2	30
43	A minimal model of striped superconductors. Europhysics Letters, 2001, 56, 849-855.	2.0	24
44	Output spectrum of a measuring device at arbitrary voltage and temperature. Europhysics Letters, 2004, 67, 840-846.	2.0	24
45	Topological frequency conversion in a driven dissipative quantum cavity. Physical Review B, 2019, 99, .	3.2	24
46	Spin-drift transport and its applications. Physical Review B, 2003, 67, .	3.2	23
47	$\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle f_{\pm} \langle \text{mml:mi} \rangle / \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ noise and generalized diffusion in random Heisenberg spin systems. Physical Review B, 2015, 92, .	3.2	23
48	Fate of Quantum Many-Body Scars in the Presence of Disorder. PRX Quantum, 2021, 2, .	9.2	23
49	Spin-to-Charge Conversion in Magnetic Weyl Semimetals. Physical Review Letters, 2019, 123, 187201.	7.8	22
50	Quantum Hall ice. Physical Review B, 2014, 90, .	3.2	21
51	Nonequilibrium theory of tunneling into a localized state in a superconductor. Physical Review B, 2014, 90, .	3.2	20
52	Half-Integer Quantized Topological Response in Quasiperiodically Driven Quantum Systems. Physical Review Letters, 2020, 125, 100601.	7.8	20
53	$d_x^2 \hat{a}^{\dagger} \hat{y}^2$ pairing of composite excitations in the two-dimensional Hubbard model. Physical Review B, 2000, 62, 4300-4308.	3.2	19
54	Dynamics and melting of stripes, crystals, and bubbles with quenched disorder. Physica D: Nonlinear Phenomena, 2004, 193, 303-309.	2.8	18

#	ARTICLE	IF	CITATIONS
55	Orbital-flop Induced Magnetoresistance Anisotropy in Rare Earth Monopnictide CeSb. Nature Communications, 2019, 10, 2875.	12.8	17
56	Ferromagnetic resonance force microscopy on a thin permalloy film. Applied Physics Letters, 2007, 90, 234105.	3.3	16
57	Anyons in Integer Quantum Hall Magnets. Physical Review X, 2013, 3, .	8.9	16
58	Marginal topological properties of graphene: a comparison with topological insulators. Physica Scripta, 2012, T146, 014021.	2.5	15
59	Majorana Kramers pair in a nematic vortex. Physical Review B, 2017, 95, .	3.2	15
60	Efficiency of thin film photocells. Optics Communications, 2007, 277, 109-113.	2.1	14
61	Specific heat at the transition in a superconductor with fluctuating magnetic moments. Physical Review B, 2003, 68, .	3.2	13
62	First-principles study of magnetic states and the anomalous Hall conductivity of $M_{6}S$		

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73	Local pairing at impurities in BCS superconductors can enhance T_c . Physical Review B, 1997, 56, 14650-14654.	3.2	8
74	Exchange coupling and high-temperature transport in M(phthalocyanine)I conductors. Physical Review B, 1999, 60, 530-532.	3.2	8
75	Dynamical Enhancement of Symmetries in Many-Body Systems. Physical Review Letters, 2020, 125, 080602.	7.8	8
76	Theory of Scanning Tunneling Microscopy Measurement of Single Spin Decoherence in a Superconductor. Physical Review Letters, 2002, 88, 037003.	7.8	7
77	Nematic quantum liquid crystals of bosons in frustrated lattices. Physical Review B, 2016, 93, .	3.2	7
78	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
79	Potential applications of a scanning tunnelling microscope with a superconducting tip. Superconductor Science and Technology, 2002, 15, 446-450.	3.5	5
80	Method for Detecting Superconducting Stripes in High-Temperature Superconductors Based on Nonlinear Resistivity Measurements. Physical Review Letters, 2011, 107, 127001.	7.8	5
81	Weak crystallization theory of metallic alloys. Physical Review B, 2016, 93, .	3.2	5
82	Moiré superconductivity. Annals of Physics, 2020, 417, 168118.	2.8	5
83	1/f NOISE AND TWO-LEVEL SYSTEMS IN JOSEPHSON QUBITS. , 2007, , 343-356.		5
84	Heptagraphene: Tunable Dirac Cones in a Graphitic Structure. Scientific Reports, 2016, 6, 33220.	3.3	3
85	Floquet vortex states induced by light carrying an orbital angular momentum. Physical Review B, 2022, 105, .	3.2	3
86	Local structure of impurity states in d-wave superconductors. Physica C: Superconductivity and Its Applications, 2000, 341-348, 125-128.	1.2	2
87	Gopalakrishnan, Martin, and Demler Reply:. Physical Review Letters, 2014, 113, 079603.	7.8	2
88	Positive magnetoresistance in quasi-one-dimensional conductors. Physical Review B, 1997, 56, 14883-14885.	3.2	1
89	Effects of Strong Correlations in Single Electron Traps in Field-Effect Transistors. IEEE Nanotechnology Magazine, 2005, 4, 90-95.	2.0	1
90	Mode locking in an optomechanical cavity. Europhysics Letters, 2020, 129, 24005.	2.0	1

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91	Nondispersing Wave Packets in Lattice Floquet Systems. Physical Review Letters, 2021, 126, 100601.	7.8	1
92	The Kondo Effect and Weak Localization. , 2001, , 11-22.		0
93	Effective Low-Energy Model for f -Electron Delocalization. Physical Review Letters, 2010, 105, 086402.	7.8	0
94	Twisting superconductors with light. Nature Physics, 2019, 15, 735-736.	16.7	0
95	Renormalization of Resonant Tunneling in MOSFETs. Journal of Computational and Theoretical Nanoscience, 2007, 4, 772-776.	0.4	0
96	Josephson Qubits as Probes of $1/f$ Noise. Lecture Notes in Physics, 2010, , 75-85.	0.7	0