Sudip Chakravarty

List of Publications by Year
in descending order

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77 papers	7,898 citations	87888 38 h-index	82547 72 g-index
78 all docs	78 docs citations	78 times ranked	3591 citing authors

#	Article	IF	Citations
1	Can a quantum critical state represent a blackbody?. Annals of Physics, 2018, 388, 135-146.	2.8	0
2	Superuniversality of topological quantum phase transition and global phase diagram of dirty topological systems in three dimensions. Physical Review B, 2017, 95, .	3.2	19
3	Skyrmions in a Density-Wave State: A Mechanism for Chiral Superconductivity. , 2016, , 481-507.		0
4	Calculation for polar Kerr effect in high-temperature cuprate superconductors. Physical Review B, 2016, 93, .	3.2	5
5	Skyrmions in a density wave state: A mechanism for chiral superconductivity. Modern Physics Letters B, 2015, 29, 1540053.	1.9	5
6	Charge-2eskyrmion condensate in a hidden-order state. Physical Review B, 2013, 87, .	3.2	13
7	Higher angular momentum pairing from transverse gauge interactions. Physical Review B, 2013, 88, .	3.2	18
8	Amplitude mode of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>-density-wave state and its relevance to high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:math>cuprates. Physical Review B, 2013, 87, .	3.2	5
9	Majorana zero modes in a quantum Ising chain with longer-ranged interactions. Physical Review B, 2012, 85, .	3.2	153
10	Quantum Criticality between Topological and Band Insulators in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>3</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:math>Dimensions. Physical Review Letters, 2011, 107, 196803.	7.8	200
11	Magnetic breakdown and quantum oscillations in electron-doped high-temperature superconductor Nd2â^'xCexCuO4. Physical Review B, 2011, 84, .	3.2	7
12	Topological density wave states of nonzero angular momentum. Physical Review B, 2011, 84, .	3.2	16
13	Quasiparticle Nernst effect in the cuprate superconductors from the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>-density-wave theory of the pseudogap phase. Physical Review B, 2010, 81, .	3.2	11
14	SCALING OF VON NEUMANN ENTROPY AT THE ANDERSON TRANSITION. International Journal of Modern Physics B, 2010, 24, 1823-1840.	2.0	11
15	Glassy states in fermionic systems with strong disorder and interactions. Physical Review B, 2009, 79, .	3.2	5
16	Resolution of two apparent paradoxes concerning quantum oscillations in underdoped high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:mrow></mml:math>superco Physical Review B, 2009, 80, .	3.2	16
17	From Complexity to Simplicity. Science, 2008, 319, 735-736.	12.6	42
18	Entanglement entropy and multifractality at localization transitions. Physical Review B, 2008, 77, .	3.2	54

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19	Competing order, Fermi surface reconstruction, and quantum oscillations in underdoped high-temperature superconductors. Physical Review B, 2008, 78, .	3.2	46
20	Fermi pockets and quantum oscillations of the Hall coefficient in high-temperature superconductors. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8835-8839.	7.1	96
21	Replacing energy by von Neumann entropy in quantum phase transitions. Annals of Physics, 2007, 322, 1466-1476.	2.8	36
22	Dissipation, topology, and quantum phase transition in a one-dimensional Josephson junction array. Physical Review B, 2006, 73, .	3.2	18
23	Nature and boundary of the floating phase in a dissipative Josephson junction array. Physical Review B, 2006, 73, .	3.2	16
24	Universality of transition temperatures in families of copper-oxide superconductors: interlayer tunneling redux. , 2005, , .		3
25	Criticality in correlated quantum matter. Nature Physics, 2005, 1, 53-56.	16.7	98
26	Floating phase in a dissipative Josephson junction array. Physical Review B, 2005, 72, .	3.2	17
27	Modulation of the local density of states within thed-density wave theory of the underdoped cuprates. Physical Review B, 2005, 72, .	3.2	15
28	Phase Diagram and Critical Exponents of a Dissipative Ising Spin Chain in a Transverse Magnetic Field. Physical Review Letters, 2005, 94, 047201.	7.8	91
29	Quasiparticle scattering and local density of states in thed-density-wave phase. Physical Review B, 2004, 69, .	3.2	33
30	Infrared Hall angle in thed-density-wave state: A comparison of theory and experiment. Physical Review B, 2004, 70, .	3.2	8
31	An explanation for a universality of transition temperatures in families of copper oxide superconductors. Nature, 2004, 428, 53-55.	27.8	116
32	An Explanation for a Universality of Transition Temperatures in Families of Copper Oxide Superconductors.. ChemInform, 2004, 35, no.	0.0	0
33	Condensation energy and the mechanism of superconductivity. Physical Review B, 2003, 67, .	3.2	15
34	Sharp Signature of adx2â^'y2Quantum Critical Point in the Hall Coefficient of Cuprate Superconductors. Physical Review Letters, 2002, 89, 277003.	7.8	43
35	ORBITAL MAGNETISM IN THE CUPRATES. International Journal of Modern Physics B, 2002, 16, 3140-3146.	2.0	2
36	ORBITAL MAGNETISM IN THE CUPRATES. , 2002, , .		0

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37	NEUTRON SCATTERING SIGNATURE OF d-DENSITY WAVE ORDER IN THE CUPRATES. International Journal of Modern Physics B, 2001, 15, 2901-2909.	2.0	49
38	Electronic mechanism of superconductivity in the cuprates,C60,and polyacenes. Physical Review B, 2001, 64, .	3.2	38
39	Effects of dissipation on quantum phase transitions. Physical Review B, 2001, 63, .	3.2	91
40	Hidden order in the cuprates. Physical Review B, 2001, 63, .	3.2	1,021
41	Wigner glass, spin liquids and the metal-insulator transition. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 859-868.	0.6	97
42	Frustrated Kinetic Energy, the Optical Sum Rule, and the Mechanism of Superconductivity. Physical Review Letters, 1999, 82, 2366-2369.	7.8	75
43	Interactions and scaling in a disordered two-dimensional metal. Physical Review B, 1998, 58, R559-R562.	3.2	49
44	Correlation Lengths in Quantum Spin Ladders. Physical Review Letters, 1997, 78, 4115-4118.	7.8	22
45	Scaling Theory of Two-Dimensional Metal-Insulator Transitions. Physical Review Letters, 1997, 79, 455-458.	7.8	193
46	NMR relaxation rate of17O inSr2CuO2Cl2: Probing two-dimensional magnons at short distances. Physical Review B, 1997, 56, 3338-3346.	3.2	4
47	The Neutron Peak in the Interlayer Tunneling Model of High Temperature Superconductors. Physical Review Letters, 1997, 78, 3559-3562.	7.8	46
48	Is the phase transition in the Heisenberg model described by the (2 + Ïµ) expansion of the non-linear Ïƒ-model?. Nuclear Physics B, 1997, 485, 613-645.	2.5	17
49	Dimensional Crossover in Quantum Antiferromagnets. Physical Review Letters, 1996, 77, 4446-4449.	7.8	59
50	Dissipative Dynamics of a Two-State System, the Kondo Problem, and the Inverse-Square Ising Model. Physical Review Letters, 1995, 75, 501-504.	7.8	64
51	Interlayer Josephson tunneling and breakdown of Fermi liquid theory. Physical Review Letters, 1994, 72, 3859-3862.	7.8	105
52	Spin-wave expansion of the staggered magnetization of a square-lattice Heisenberg antiferromagnet atT=0. Physical Review B, 1991, 43, 13687-13690.	3.2	36
53	Scale-independent fluctuations of spin stiffness in the Heisenberg model and its relationship to universal conductance fluctuations. Physical Review Letters, 1991, 66, 481-483.	7.8	23
54	Theory of nuclear relaxation inLa2CuO4. Physical Review B, 1991, 43, 2796-2808.	3.2	28

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55	Electron and nuclear magnetic relaxation inLa2CuO4and related cuprates. Physical Review Letters, 1990, 64, 224-227.	7.8	133
56	Low-temperature behavior of the correlation length and the susceptibility of a quantum Heisenberg ferromagnet in two dimensions. Physical Review B, 1989, 40, 4858-4870.	3.2	56
57	Two-dimensional quantum Heisenberg antiferromagnet at low temperatures. Physical Review B, 1989, 39, 2344-2371.	3.2	1,276
58	Low-temperature behavior of two-dimensional quantum antiferromagnets. Physical Review Letters, 1988, 60, 1057-1060.	7.8	824
59	Quantum statistical mechanics of an array of resistively shunted Josephson junctions. Physical Review B, 1988, 37, 3283-3294.	3.2	106
60	High-temperature series expansion for spin glasses. II. Analysis of the series. Physical Review B, 1987, 36, 559-566.	3.2	35
61	Effect of quasiparticle tunneling on quantum-phase fluctuations and the onset of superconductivity in granular films. Physical Review B, 1987, 35, 7256-7259.	3.2	123
62	High-temperature series expansion for spin glasses. I. Derivation of the series. Physical Review B, 1987, 36, 546-558.	3.2	33
63	Critical exponents for Ising spin glasses through highâ€temperature series analysis. Journal of Applied Physics, 1987, 61, 4095-4096.	2.5	5
64	Quantum Mechanics on a Macroscopic Scale. Annals of the New York Academy of Sciences, 1986, 480, 25-35.	3.8	4
65	Weak localization: The quasiclassical theory of electrons in a random potential. Physics Reports, 1986, 140, 193-236.	25.6	439
66	Critical Behavior of an Ising Spin-Glass. Physical Review Letters, 1986, 57, 245-248.	7.8	170
67	Onset of Global Phase Coherence in Josephson-Junction Arrays: A Dissipative Phase Transition. Physical Review Letters, 1986, 56, 2303-2306.	7.8	208
68	Dissipative dynamics of a two-state system coupled to a heat bath. Physical Review B, 1985, 31, 154-164.	3.2	103
69	Photoinduced macroscopic quantum tunneling. Physical Review B, 1985, 32, 76-87.	3.2	46
70	Dynamics of the Two-State System with Ohmic Dissipation. Physical Review Letters, 1984, 52, 5-8.	7.8	335
71	Quantum decay in a dissipative system. Physical Review B, 1984, 29, 130-137.	3.2	78
72	Quantum coherence in dissipative systems. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1984, 126, 385-391.	0.9	4

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73	Photoinduced Macroscopic Quantum Tunneling in Superconducting Interference Devices. Physical Review Letters, 1983, 50, 1811-1814.	7.8	72
74	Photoinduced Macroscopic Quantum Tunneling in Superconducting Inter Ference Devices. Physical Review Letters, 1983, 51, 1109-1109.	7.8	13
75	Quantum Fluctuations in the Tunneling between Superconductors. Physical Review Letters, 1982, 49, 681-684.	7.8	338
76	Absence of crystalline order in two dimensions. Physical Review B, 1980, 22, 369-372.	3.2	10
77	Monte Carlo simulation of the classical two-dimensional one-component plasma. Physical Review B, 1979, 20, 326-344.	3.2	237