

Aditi Sen De

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

4,477
citations

218677

26
h-index

102487

66
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102
all docs

102
docs citations

102
times ranked

2595
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing robust quantum refrigerators in disordered spin models. Physical Review A, 2022, 105, .	2.5	2
2	Performance of dense coding and teleportation for random states: Augmentation via preprocessing. Physical Review A, 2021, 103, .	2.5	6
3	Restrictions on shareability of classical correlations for random multipartite quantum states. Physical Review A, 2021, 103, .	2.5	1
4	Fast charging of a quantum battery assisted by noise. Physical Review A, 2021, 104, .	2.5	35
5	Distribution of entanglement with variable range interactions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 418, 127703.	2.1	0
6	Detection of an unbroken phase of a non-Hermitian system via a Hermitian factorization surface. Physical Review A, 2021, 104, .	2.5	4
7	Measurement-based multipartite entanglement inflation. Physical Review A, 2021, 104, .	2.5	4
8	How efficient is transport of quantum cargo through multiple highways?. Annals of Physics, 2020, 422, 168281.	2.8	5
9	Multipartite entanglement at dynamical quantum phase transitions with nonuniformly spaced criticalities. Physical Review B, 2020, 101, .	3.2	14
10	Signaling versus distinguishing different preparations of same pure quantum state. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 275302.	2.1	1
11	Enhancement in the performance of a quantum battery by ordered and disordered interactions. Physical Review A, 2020, 101, .	2.5	50
12	Response of macroscopic and microscopic dynamical quantifiers to the quantum critical region. Physical Review Research, 2020, 2, .	3.6	2
13	Response of entanglement to annealed vis-À-vis quenched disorder in quantum spin models. Europhysics Letters, 2019, 127, 30003.	2.0	1
14	Fibonacci sequence and its generalizations in doped quantum spin ladders. Journal of Magnetism and Magnetic Materials, 2019, 478, 100-108.	2.3	0
15	Tensor-network approach to compute genuine multisite entanglement in infinite quantum spin chains. Physical Review A, 2019, 99, .	2.5	5
16	Universality in distribution of monogamy scores for random multiqubit pure states. Physical Review A, 2019, 99, .	2.5	9
17	Phase boundaries in an alternating-field quantum XY model with Dzyaloshinskii-Moriya interaction: Sustainable entanglement in dynamics. Physical Review B, 2019, 99, .	3.2	11
18	Emergence of entanglement with temperature and time in factorization-surface states. Physical Review A, 2018, 97, .	2.5	7

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19	Benford analysis of quantum critical phenomena: First digit provides high finite-size scaling exponent while first two and further are not much better. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 1639-1644.	2.1	2
20	Quantum discord and its allies: a review of recent progress. <i>Reports on Progress in Physics</i> , 2018, 81, 024001.	20.1	150
21	Adiabatic freezing of entanglement with insertion of defects in a one-dimensional Hubbard model. <i>Physical Review B</i> , 2018, 98, .	3.2	3
22	Response to defects in multipartite and bipartite entanglement of isotropic quantum spin networks. <i>Physical Review A</i> , 2018, 97, .	2.5	5
23	Activation of nonmonogamous multipartite quantum states. <i>Physical Review A</i> , 2018, 98, .	2.5	5
24	Masking Quantum Information is Impossible. <i>Physical Review Letters</i> , 2018, 120, 230501.	7.8	52
25	Forbidden regimes in the distribution of bipartite quantum correlations due to multiparty entanglement. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 1701-1709.	2.1	8
26	Multipartite entanglement accumulation in quantum states: Localizable generalized geometric measure. <i>Physical Review A</i> , 2017, 95, .	2.5	23
27	Analytical recursive method to ascertain multisite entanglement in doped quantum spin ladders. <i>Physical Review B</i> , 2017, 96, .	3.2	6
28	Canonical distillation of entanglement. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 3529-3535.	2.1	5
29	Spontaneous magnetization of quantum XY spin model in joint presence of quenched and annealed disorder. <i>Physical Review B</i> , 2017, 95, .	3.2	6
30	Monogamy of Quantum Correlations - A Review. <i>Quantum Science and Technology</i> , 2017, , 23-64.	2.6	14
31	Constructive interference between disordered couplings enhances multiparty entanglement in quantum Heisenberg spin glass models. <i>New Journal of Physics</i> , 2016, 18, 083044.	2.9	8
32	Static and dynamical quantum correlations in phases of an alternating-field XY model. <i>Physical Review A</i> , 2016, 94, .	2.5	16
33	Generalized geometric measure of entanglement for multiparty mixed states. <i>Physical Review A</i> , 2016, 94, .	2.5	18
34	Information complementarity in multipartite quantum states and security in cryptography. <i>Physical Review A</i> , 2016, 93, .	2.5	6
35	Distribution of Bell-inequality violation versus multiparty-quantum-correlation measures. <i>Physical Review A</i> , 2016, 93, .	2.5	6
36	Quantum correlations in quenched disordered spin models: Enhanced order from disorder by thermal fluctuations. <i>Physical Review E</i> , 2016, 93, 032115.	2.1	7

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37	Disorder-induced enhancement and critical scaling of spontaneous magnetization in random-field quantum spin systems. <i>Physical Review B</i> , 2016, 94, .	3.2	6
38	Quantum discord length is enhanced while entanglement length is not by introducing disorder in a spin chain. <i>Physical Review E</i> , 2016, 93, 012131.	2.1	21
39	Diverging scaling with converging multisite entanglement in odd and even quantum Heisenberg ladders. <i>New Journal of Physics</i> , 2016, 18, 023025.	2.9	9
40	Freezing of quantum correlations under local decoherence. <i>Physical Review A</i> , 2015, 91, .	2.5	35
41	Distributed quantum dense coding with two receivers in noisy environments. <i>Physical Review A</i> , 2015, 92, .	2.5	18
42	Reducing computational complexity of quantum correlations. <i>Physical Review A</i> , 2015, 92, .	2.5	11
43	Quantum correlation with sandwiched relative entropies: Advantageous as order parameter in quantum phase transitions. <i>Physical Review E</i> , 2015, 91, 052125.	2.1	15
44	Effect of a large number of parties on the monogamy of quantum correlations. <i>Physical Review A</i> , 2015, 91, .	2.5	20
45	Genuine-multipartite-entanglement trends in gapless-to-gapped transitions of quantum spin systems. <i>Physical Review A</i> , 2014, 90, .	2.5	39
46	Multipartite dense coding versus quantum correlation: Noise inverts relative capability of information transfer. <i>Physical Review A</i> , 2014, 90, .	2.5	18
47	Patterns of genuine multipartite entanglement in frustrated quantum spin systems. <i>Physical Review A</i> , 2014, 89, .	2.5	7
48	Classical spin models with broken symmetry: Random-field-induced order and persistence of spontaneous magnetization in the presence of a random field. <i>Physical Review B</i> , 2014, 90, .	3.2	6
49	Shared purity of multipartite quantum states. <i>Physical Review A</i> , 2014, 89, .	2.5	7
50	Cumulative quantum work-deficit versus entanglement in the dynamics of an infinite spin chain. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 1258-1263.	2.1	8
51	Monotonically increasing functions of any quantum correlation can make all multiparty states monogamous. <i>Annals of Physics</i> , 2014, 348, 297-305.	2.8	39
52	Multipartite quantum correlations reveal frustration in a quantum Ising spin system. <i>Physical Review A</i> , 2013, 88, .	2.5	35
53	Maximally-dense-coding-capable quantum states. <i>Physical Review A</i> , 2013, 87, .	2.5	22
54	Characterizing Genuine Multisite Entanglement in Isotropic Spin Lattices. <i>Physical Review Letters</i> , 2013, 111, 070501.	7.8	17

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55	The density matrix recursion method: genuine multisite entanglement distinguishes odd from even quantum spin ladder states. <i>New Journal of Physics</i> , 2013, 15, 013043.	2.9	14
56	Tuning interaction strength leads to an ergodic-nonergodic transition of quantum correlations in the anisotropic Heisenberg spin model. <i>Physical Review A</i> , 2013, 87, .	2.5	9
57	Dual quantum-correlation paradigms exhibit opposite statistical-mechanical properties. <i>Physical Review A</i> , 2012, 86, .	2.5	12
58	Relating monogamy of quantum correlations and multisite entanglement. <i>Physical Review A</i> , 2012, 86, .	2.5	24
59	Characterization of tripartite quantum states with vanishing monogamy score. <i>Physical Review A</i> , 2012, 86, .	2.5	31
60	Conditions for monogamy of quantum correlations: Greenberger-Horne-Zeilinger versus W states. <i>Physical Review A</i> , 2012, 85, .	2.5	96
61	Locally accessible information of multisite quantum ensembles violates entanglement monogamy. <i>Physical Review A</i> , 2012, 85, .	2.5	9
62	Entanglement mean field theory: Lipkin-Meshkov-Glick Model. <i>Quantum Information Processing</i> , 2012, 11, 675-683.	2.2	3
63	Counting of fermions and spins in strongly correlated systems in and out of thermal equilibrium. <i>Physical Review A</i> , 2011, 83, .	2.5	9
64	Disorder overtakes order in information concentration over quantum networks. <i>Physical Review A</i> , 2011, 84, .	2.5	26
65	Simulating Quantum Dynamics with Entanglement Mean Field Theory. <i>Journal of Physics: Conference Series</i> , 2011, 297, 012018.	0.4	2
66	Benford's law detects quantum phase transitions similarly as earthquakes. <i>Europhysics Letters</i> , 2011, 95, 50008.	2.0	15
67	Entanglement in resonating valence bond states: ladder versus isotropic lattices. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 465302.	2.1	16
68	Atom counting in expanding ultracold clouds. <i>Physical Review A</i> , 2011, 84, .	2.5	1
69	Role of an information-theoretic measure of quantum correlation in a dynamical phase transition of entanglement. , 2010, , .		0
70	Channel capacities versus entanglement measures in multiparty quantum states. <i>Physical Review A</i> , 2010, 81, .	2.5	86
71	Entanglement enhances security in quantum communication. <i>Physical Review A</i> , 2009, 80, .	2.5	26
72	Kaszlikowski et al. Reply:. <i>Physical Review Letters</i> , 2008, 101, .	7.8	2

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73	Frustration, Area Law, and Interference in Quantum Spin Models. Physical Review Letters, 2008, 101, 187202.	7.8	10
74	Fermion and spin counting in strongly correlated systems. Physical Review A, 2008, 78, .	2.5	10
75	Error-resistant distributed quantum computation in a trapped ion chain. Physical Review A, 2007, 76, .	2.5	11
76	Trapped Ion Chain as a Neural Network: Error Resistant Quantum Computation. Physical Review Letters, 2007, 98, 023003.	7.8	42
77	Quantification of quantum correlation of ensembles of states. Physical Review A, 2007, 75, .	2.5	13
78	Capacities of noiseless quantum channels for massive indistinguishable particles: Bosons versus fermions. Physical Review A, 2007, 75, .	2.5	4
79	Regional Versus Global Entanglement in Resonating-Valence-Bond States. Physical Review Letters, 2007, 99, 170502.	7.8	36
80	Ultracold atomic gases in optical lattices: mimicking condensed matter physics and beyond. Advances in Physics, 2007, 56, 243-379.	14.4	1,712
81	Quantum-information processing in disordered and complex quantum systems. Physical Review A, 2006, 74, .	2.5	9
82	DENSE CODING WITH MULTIPARTITE QUANTUM STATES. International Journal of Quantum Information, 2006, 04, 415-428.	1.1	48
83	Usefulness of classical communication for local cloning of entangled states. Physical Review A, 2006, 73, .	2.5	9
84	Distillation protocols that involve local distinguishing: Composing upper and lower bounds on locally accessible information. Physical Review A, 2006, 74, .	2.5	8
85	Common Origin of No-Cloning and No-Deleting Principles Conservation of Information. Foundations of Physics, 2005, 35, 2041-2049.	1.3	19
86	Capacities of Quantum Channels for Massive Bosons and Fermions. Physical Review Letters, 2005, 95, 260503.	7.8	10
87	Dynamical phase transitions and temperature-induced quantum correlations in an infinite spin chain. Physical Review A, 2005, 72, .	2.5	39
88	Local versus nonlocal information in quantum-information theory: Formalism and phenomena. Physical Review A, 2005, 71, .	2.5	389
89	Nonergodicity of entanglement and its complementary behavior to magnetization in an infinite spin chain. Physical Review A, 2004, 70, .	2.5	32
90	Dual entanglement measures based on no local cloning and no local deleting. Physical Review A, 2004, 70, .	2.5	18

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91	Distillation Protocols: Output Entanglement and Local Mutual Information. Physical Review Letters, 2004, 93, 170503.	7.8	26
92	Local Indistinguishability: More Nonlocality with Less Entanglement. Physical Review Letters, 2003, 90, 047902.	7.8	181
93	MultiqubitWstates lead to stronger nonclassicality than Greenberger-Horne-Zeilinger states. Physical Review A, 2003, 68, .	2.5	102
94	Unified criterion for security of secret sharing in terms of violation of Bell inequalities. Physical Review A, 2003, 68, .	2.5	61
95	Locally Accessible Information: How Much Can the Parties Gain by Cooperating?. Physical Review Letters, 2003, 91, 117901.	7.8	40
96	Rates of asymptotic entanglement transformations for bipartite mixed states: Maximally entangled states are not special. Physical Review A, 2003, 67, .	2.5	22
97	Can there be quantum correlations in a mixture of two separable states?. Journal of Modern Optics, 2003, 50, 981-985.	1.3	2
98	Local Information as a Resource in Distributed Quantum Systems. Physical Review Letters, 2003, 90, 100402.	7.8	135
99	Local indistinguishability of orthogonal pure states by using a bound on distillable entanglement. Physical Review A, 2002, 65, .	2.5	33
100	Mixedness in the Bell violation versus entanglement of formation. Physical Review A, 2001, 64, .	2.5	40
101	Distinguishability of Bell States. Physical Review Letters, 2001, 87, 277902.	7.8	203