

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
g-index

102
all docs

102
docs citations

102
times ranked

2595
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultracold atomic gases in optical lattices: mimicking condensed matter physics and beyond. <i>Advances in Physics</i> , 2007, 56, 243-379.	14.4	1,712
2	Local versus nonlocal information in quantum-information theory: Formalism and phenomena. <i>Physical Review A</i> , 2005, 71, .	2.5	389
3	Distinguishability of Bell States. <i>Physical Review Letters</i> , 2001, 87, 277902.	7.8	203
4	Local Indistinguishability: More Nonlocality with Less Entanglement. <i>Physical Review Letters</i> , 2003, 90, 047902.	7.8	181
5	Quantum discord and its allies: a review of recent progress. <i>Reports on Progress in Physics</i> , 2018, 81, 024001.	20.1	150
6	Local Information as a Resource in Distributed Quantum Systems. <i>Physical Review Letters</i> , 2003, 90, 100402.	7.8	135
7	MultiqubitWstates lead to stronger nonclassicality than Greenberger-Horne-Zeilinger states. <i>Physical Review A</i> , 2003, 68, .	2.5	102
8	Conditions for monogamy of quantum correlations: Greenberger-Horne-Zeilinger versus W states. <i>Physical Review A</i> , 2012, 85, .	2.5	96
9	Channel capacities versus entanglement measures in multipartite quantum states. <i>Physical Review A</i> , 2010, 81, .	2.5	86
10	Unified criterion for security of secret sharing in terms of violation of Bell inequalities. <i>Physical Review A</i> , 2003, 68, .	2.5	61
11	Masking Quantum Information is Impossible. <i>Physical Review Letters</i> , 2018, 120, 230501.	7.8	52
12	Enhancement in the performance of a quantum battery by ordered and disordered interactions. <i>Physical Review A</i> , 2020, 101, .	2.5	50
13	DENSE CODING WITH MULTIPARTITE QUANTUM STATES. <i>International Journal of Quantum Information</i> , 2006, 04, 415-428.	1.1	48
14	Trapped Ion Chain as a Neural Network: Error Resistant Quantum Computation. <i>Physical Review Letters</i> , 2007, 98, 023003.	7.8	42
15	Mixedness in the Bell violation versus entanglement of formation. <i>Physical Review A</i> , 2001, 64, .	2.5	40
16	Locally Accessible Information: How Much Can the Parties Gain by Cooperating?. <i>Physical Review Letters</i> , 2003, 91, 117901.	7.8	40
17	Dynamical phase transitions and temperature-induced quantum correlations in an infinite spin chain. <i>Physical Review A</i> , 2005, 72, .	2.5	39
18	Genuine-multipartite-entanglement trends in gapless-to-gapped transitions of quantum spin systems. <i>Physical Review A</i> , 2014, 90, .	2.5	39

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19	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
20	Regional Versus Global Entanglement in Resonating-Valence-Bond States. <i>Physical Review Letters</i> , 2007, 99, 170502.	7.8	36
21	Multipartite quantum correlations reveal frustration in a quantum Ising spin system. <i>Physical Review A</i> , 2013, 88, .	2.5	35
22	Freezing of quantum correlations under local decoherence. <i>Physical Review A</i> , 2015, 91, .	2.5	35
23	Fast charging of a quantum battery assisted by noise. <i>Physical Review A</i> , 2021, 104, .	2.5	35
24	Local indistinguishability of orthogonal pure states by using a bound on distillable entanglement. <i>Physical Review A</i> , 2002, 65, .	2.5	33
25	Nonergodicity of entanglement and its complementary behavior to magnetization in an infinite spin chain. <i>Physical Review A</i> , 2004, 70, .	2.5	32
26	Characterization of tripartite quantum states with vanishing monogamy score. <i>Physical Review A</i> , 2012, 86, .	2.5	31
27	Distillation Protocols: Output Entanglement and Local Mutual Information. <i>Physical Review Letters</i> , 2004, 93, 170503.	7.8	26
28	Entanglement enhances security in quantum communication. <i>Physical Review A</i> , 2009, 80, .	2.5	26
29	Disorder overtakes order in information concentration over quantum networks. <i>Physical Review A</i> , 2011, 84, .	2.5	26
30	Relating monogamy of quantum correlations and multisite entanglement. <i>Physical Review A</i> , 2012, 86, .	2.5	24
31	Multipartite entanglement accumulation in quantum states: Localizable generalized geometric measure. <i>Physical Review A</i> , 2017, 95, .	2.5	23
32	Rates of asymptotic entanglement transformations for bipartite mixed states: Maximally entangled states are not special. <i>Physical Review A</i> , 2003, 67, .	2.5	22
33	Maximally-dense-coding-capable quantum states. <i>Physical Review A</i> , 2013, 87, .	2.5	22
34	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
35	Effect of a large number of parties on the monogamy of quantum correlations. <i>Physical Review A</i> , 2015, 91, .	2.5	20
36	Common Origin of No-Cloning and No-Deleting Principles Conservation of Information. <i>Foundations of Physics</i> , 2005, 35, 2041-2049.	1.3	19

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37	Dual entanglement measures based on no local cloning and no local deleting. Physical Review A, 2004, 70, .	2.5	18
38	Multipartite dense coding versus quantum correlation: Noise inverts relative capability of information transfer. Physical Review A, 2014, 90, .	2.5	18
39	Distributed quantum dense coding with two receivers in noisy environments. Physical Review A, 2015, 92, .	2.5	18
40	Generalized geometric measure of entanglement for multiparty mixed states. Physical Review A, 2016, 94, .	2.5	18
41	Characterizing Genuine Multisite Entanglement in Isotropic Spin Lattices. Physical Review Letters, 2013, 111, 070501.	7.8	17
42	Entanglement in resonating valence bond states: ladder versus isotropic lattices. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 465302.	2.1	16
43	Static and dynamical quantum correlations in phases of an alternating-field XY model. Physical Review A, 2016, 94, .	2.5	16
44	Benford's law detects quantum phase transitions similarly as earthquakes. Europhysics Letters, 2011, 95, 50008.	2.0	15
45	Quantum correlation with sandwiched relative entropies: Advantageous as order parameter in quantum phase transitions. Physical Review E, 2015, 91, 052125.	2.1	15
46	The density matrix recursion method: genuine multisite entanglement distinguishes odd from even quantum spin ladder states. New Journal of Physics, 2013, 15, 013043.	2.9	14
47	Multipartite entanglement at dynamical quantum phase transitions with nonuniformly spaced criticalities. Physical Review B, 2020, 101, .	3.2	14
48	Monogamy of Quantum Correlations - A Review. Quantum Science and Technology, 2017, , 23-64.	2.6	14
49	Quantification of quantum correlation of ensembles of states. Physical Review A, 2007, 75, .	2.5	13
50	Dual quantum-correlation paradigms exhibit opposite statistical-mechanical properties. Physical Review A, 2012, 86, .	2.5	12
51	Error-resistant distributed quantum computation in a trapped ion chain. Physical Review A, 2007, 76, .	2.5	11
52	Reducing computational complexity of quantum correlations. Physical Review A, 2015, 92, .	2.5	11
53	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
54	Capacities of Quantum Channels for Massive Bosons and Fermions. Physical Review Letters, 2005, 95, 260503.	7.8	10

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55	Frustration, Area Law, and Interference in Quantum Spin Models. <i>Physical Review Letters</i> , 2008, 101, 187202.	7.8	10
56	Fermion and spin counting in strongly correlated systems. <i>Physical Review A</i> , 2008, 78, .	2.5	10
57	Quantum-information processing in disordered and complex quantum systems. <i>Physical Review A</i> , 2006, 74, .	2.5	9
58	Usefulness of classical communication for local cloning of entangled states. <i>Physical Review A</i> , 2006, 73, .	2.5	9
59	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
60	Locally accessible information of multisite quantum ensembles violates entanglement monogamy. <i>Physical Review A</i> , 2012, 85, .	2.5	9
61	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
62	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
63	Universality in distribution of monogamy scores for random multiqubit pure states. <i>Physical Review A</i> , 2019, 99, .	2.5	9
64	Distillation protocols that involve local distinguishing: Composing upper and lower bounds on locally accessible information. <i>Physical Review A</i> , 2006, 74, .	2.5	8
65	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
66	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
67	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
68	Patterns of genuine multipartite entanglement in frustrated quantum spin systems. <i>Physical Review A</i> , 2014, 89, .	2.5	7
69	Shared purity of multipartite quantum states. <i>Physical Review A</i> , 2014, 89, .	2.5	7
70	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
71	Emergence of entanglement with temperature and time in factorization-surface states. <i>Physical Review A</i> , 2018, 97, .	2.5	7
72	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

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73	Information complementarity in multipartite quantum states and security in cryptography. Physical Review A, 2016, 93, .	2.5	6
74	Distribution of Bell-inequality violation versus multiparty-quantum-correlation measures. Physical Review A, 2016, 93, .	2.5	6
75	Disorder-induced enhancement and critical scaling of spontaneous magnetization in random-field quantum spin systems. Physical Review B, 2016, 94, .	3.2	6
76	Analytical recursive method to ascertain multisite entanglement in doped quantum spin ladders. Physical Review B, 2017, 96, .	3.2	6
77	Spontaneous magnetization of quantum XY spin model in joint presence of quenched and annealed disorder. Physical Review B, 2017, 95, .	3.2	6
78	Performance of dense coding and teleportation for random states: Augmentation via preprocessing. Physical Review A, 2021, 103, .	2.5	6
79	Canonical distillation of entanglement. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 3529-3535.	2.1	5
80	Response to defects in multipartite and bipartite entanglement of isotropic quantum spin networks. Physical Review A, 2018, 97, .	2.5	5
81	Activation of nonmonogamous multipartite quantum states. Physical Review A, 2018, 98, .	2.5	5
82	Tensor-network approach to compute genuine multisite entanglement in infinite quantum spin chains. Physical Review A, 2019, 99, .	2.5	5
83	How efficient is transport of quantum cargo through multiple highways?. Annals of Physics, 2020, 422, 168281.	2.8	5
84	Capacities of noiseless quantum channels for massive indistinguishable particles: Bosons versus fermions. Physical Review A, 2007, 75, .	2.5	4
85	Detection of an unbroken phase of a non-Hermitian system via a Hermitian factorization surface. Physical Review A, 2021, 104, .	2.5	4
86	Measurement-based multipartite entanglement inflation. Physical Review A, 2021, 104, .	2.5	4
87	Entanglement mean field theory: Lipkinâ€“Meshkovâ€“Glick Model. Quantum Information Processing, 2012, 11, 675-683.	2.2	3
88	Adiabatic freezing of entanglement with insertion of defects in a one-dimensional Hubbard model. Physical Review B, 2018, 98, .	3.2	3
89	Can there be quantum correlations in a mixture of two separable states?. Journal of Modern Optics, 2003, 50, 981-985.	1.3	2
90	Kaszlikowski et al. Reply:. Physical Review Letters, 2008, 101, .	7.8	2

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91	Simulating Quantum Dynamics with Entanglement Mean Field Theory. Journal of Physics: Conference Series, 2011, 297, 012018.	0.4	2
92	Benford analysis of quantum critical phenomena: First digit provides high finite-size scaling exponent while first two and further are not much better. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1639-1644.	2.1	2
93	Response of macroscopic and microscopic dynamical quantifiers to the quantum critical region. Physical Review Research, 2020, 2, .	3.6	2
94	Designing robust quantum refrigerators in disordered spin models. Physical Review A, 2022, 105, .	2.5	2
95	Atom counting in expanding ultracold clouds. Physical Review A, 2011, 84, .	2.5	1
96	Response of entanglement to annealed vis-À-vis quenched disorder in quantum spin models. Europhysics Letters, 2019, 127, 30003.	2.0	1
97	Signaling versus distinguishing different preparations of same pure quantum state. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 275302.	2.1	1
98	Restrictions on shareability of classical correlations for random multipartite quantum states. Physical Review A, 2021, 103, .	2.5	1
99	Role of an information-theoretic measure of quantum correlation in a dynamical phase transition of entanglement. , 2010, , .		0
100	Fibonacci sequence and its generalizations in doped quantum spin ladders. Journal of Magnetism and Magnetic Materials, 2019, 478, 100-108.	2.3	0
101	Distribution of entanglement with variable range interactions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 418, 127703.	2.1	0