Syed M Assad

List of Publications by Year
in descending order

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59 papers	1,363 citations	430874 18 h-index	330143 37 g-index
59 all docs	59 docs citations	59 times ranked	1271 citing authors

#	Article	IF	Citations
1	Observing the operational significance of discordÂconsumption. Nature Physics, 2012, 8, 671-675.	16.7	201
2	An integrated silicon photonic chip platform for continuous-variable quantum key distribution. Nature Photonics, 2019, 13, 839-842.	31.4	196
3	Real time demonstration of high bitrate quantum random number generation with coherent laser light. Applied Physics Letters, 2011, 98, .	3.3	161
4	Experimental demonstration of Gaussian protocols for one-sided device-independent quantum key distribution. Optica, 2016, 3, 634.	9.3	136
5	Measurement-based noiseless linear amplification for quantum communication. Nature Photonics, 2014, 8, 333-338.	31.4	95
6	Maximization of Extractable Randomness in a Quantum Random-Number Generator. Physical Review Applied, 2015, 3, .	3.8	78
7	Observation of Entanglement between Two Light Beams Spanning an Octave in Optical Frequency. Physical Review Letters, 2008, 100, 243601.	7.8	37
8	Electromagnetically induced transparency and four-wave mixing in a cold atomic ensemble with large optical depth. New Journal of Physics, 2014, 16, 113053.	2.9	34
9	Surpassing the no-cloning limit with a heralded hybrid linear amplifier for coherent states. Nature Communications, 2016, 7, 13222.	12.8	34
10	Experimental demonstration of post-selection-based continuous-variable quantum key distribution in the presence of Gaussian noise. Physical Review A, 2007, 76, .	2.5	33
11	Loss-tolerant quantum dense metrology with SU(1,1) interferometer. Optics Express, 2018, 26, 27705.	3.4	30
12	Real-Time Source-Independent Quantum Random-Number Generator with Squeezed States. Physical Review Applied, 2019, 12, .	3.8	28
13	Ultimate precision of joint quadrature parameter estimation with a Gaussian probe. Physical Review A, 2018, 97, .	2.5	27
14	Nonlinear Entanglement and its Application to Generating Cat States. Physical Review Letters, 2015, 114, 100403.	7.8	26
15	Violation of Bellâ€™s Inequality Using Continuous Variable Measurements. Physical Review Letters, 2018, 120, 040406.	7.8	22
16	Joint measurement of multiple noncommuting parameters. Physical Review A, 2018, 97, .	2.5	21
17	Efficient computation of the Nagaokaâ€“Hayashi bound for multiparameter estimation with separable measurements. Npj Quantum Information, 2021, 7, .	6.7	21
18	A tight CramÃ©râ€“Rao bound for joint parameter estimation with a pure two-mode squeezed probe. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2598-2607.	2.1	19

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19	Overarching framework between Gaussian quantum discord and Gaussian quantum illumination. Physical Review A, 2017, 95, .	2.5	18
20	Characterization of a measurement-based noiseless linear amplifier and its applications. Physical Review A, 2017, 96, .	2.5	17
21	Optimal probes for continuous-variable quantum illumination. Physical Review A, 2021, 103, .	2.5	16
22	Estimation of output-channel noise for continuous-variable quantum key distribution. Physical Review A, 2016, 93, .	2.5	14
23	Quantum enhancement of signal-to-noise ratio with a heralded linear amplifier. Optica, 2017, 4, 1421.	9.3	14
24	Experimental verification of quantum discord in continuous-variable states. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 025503.	1.5	13
25	A high-fidelity heralded quantum squeezing gate. Nature Photonics, 2020, 14, 306-309.	31.4	13
26	Accessible precisions for estimating two conjugate parameters using Gaussian probes. Physical Review Research, 2020, 2, .	3.6	10
27	Monte-Carlo and polyhedron-based simulations I: extremal states of the logarithmic N-body problem on a sphere. Discrete and Continuous Dynamical Systems - Series B, 2003, 3, 313-342.	0.9	6
28	Reconstruction of photon number conditioned states using phase randomized homodyne measurements. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 104009.	1.5	5
29	Measurement-based noiseless linear amplification for quantum communication. , 2014, , .		5
30	Maximizing device-independent randomness from a Bell experiment by optimizing the measurement settings. Physical Review A, 2016, 94, .	2.5	4
31	Title is missing!. Regular and Chaotic Dynamics, 2005, 10, 239.	0.8	4
32	A Monte Carlo algorithm for free and coaxial ring extremal states of the vortex N-body problem on a sphere. Physica A: Statistical Mechanics and Its Applications, 2003, 328, 53-96.	2.6	3
33	Phase estimation of coherent states with a noiseless linear amplifier. International Journal of Quantum Information, 2017, 15, 1750009.	1.1	3
34	Maximum entanglement of formation for a two-mode Gaussian state over passive operations. Physical Review A, 2020, 102, .	2.5	3
35	Dynamical features of deoxyribonucleic acid and configuration transition in the transcription process. Journal of Physics Condensed Matter, 2006, 18, 9007-9030.	1.8	2
36	Gaussian multipartite quantum discord from classical mutual information. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 245501.	1.5	2

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37	Statistical equilibrium of the Coulomb/vortex gas on the unbounded 2-dimensional plane. Discrete and Continuous Dynamical Systems - Series B, 2004, 5, 1-14.	0.9	2
38	Statistical equilibrium distributions of baroclinic vortices in a rotating two-layer model at low Froude numbers. Geophysical and Astrophysical Fluid Dynamics, 2006, 100, 503-524.	1.2	1
39	RAW-DATA ATTACKS IN QUANTUM CRYPTOGRAPHY WITH PARTIAL TOMOGRAPHY. International Journal of Quantum Information, 2006, 04, 1003-1012.	1.1	1
40	Continuous Variable Quantum Cryptography: Post-Selection with Thermal Noise. , 2007, , .		1
41	Encoding secret information in measurement settings. International Journal of Quantum Information, 2014, 12, 1450016.	1.1	1
42	Experimental verification of quantum discord in continuous-variable states and operational significance of discord consumption. , 2014, , .		1
43	Entanglement properties of a measurement-based entanglement distillation experiment. Physical Review A, 2019, 99, .	2.5	1
44	Decoupling cross-quadrature correlations using passive operations. Physical Review A, 2020, 102, .	2.5	1
45	Circular Discrepancy and a Monte Carlo Algorithm for Generating a Low Circular Discrepancy Sequence. , 2005, , 1-19.		1
46	Security of Post-Selection Based Continuous Variable Quantum Key Distribution in the Presence of Gaussian Added Noise. , 2007, , .		1
47	Secure Random Number Generation in Continuous Variable Systems. Quantum Science and Technology, 2020, , 85-112.	2.6	1
48	Coarctation of the Aorta - An Evolution of Therapeutic Options. Current Cardiology Reviews, 2005, 1, 239-246.	1.5	0
49	A functional interpretation of continuous variable quantum discord. , 2011, , .		0
50	Building a quantum repeater with quantum memories and noiseless amplifiers. , 2013, , .		0
51	Virtual noiseless amplification. , 2013, , .		0
52	Discord as a consumable resource. , 2013, , .		0
53	Fast real-time random numbers from vacuum fluctuations. , 2013, , .		0
54	Operational significance of discord consumption. , 2013, , .		0

#	Article	IF	Citations
55	Discord as a quantum resource for bi-partite communication. , 2014, , .		0
56	Surpassing the no-cloning limit with a heralded hybrid linear amplifier. , 2017, , .		0
57	Harmonic entanglement from second-order nonlinearity: optimization and interpretation. , 2007, , .		0
58	A Functional Interpretation of Continuous Variable Quantum Discord. , 2011, , .		0
59	Real-Time Self-Testing Quantum Random Number Generator with Non-classical States. , 2020, , .		0