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	Optimal probes for continuous-variable quantum illumination. Physical Review A, 2021, 103, .	2.5	16
2	Efficient computation of the Nagaokaâ€“Hayashi bound for multiparameter estimation with separable measurements. Npj Quantum Information, 2021, 7, .	6.7	21
3	Decoupling cross-quadrature correlations using passive operations. Physical Review A, 2020, 102, .	2.5	1
4	A high-fidelity heralded quantum squeezing gate. Nature Photonics, 2020, 14, 306-309.	31.4	13
5	Accessible precisions for estimating two conjugate parameters using Gaussian probes. Physical Review Research, 2020, 2, .	3.6	10
6	Secure Random Number Generation in Continuous Variable Systems. Quantum Science and Technology, 2020, , 85-112.	2.6	1
7	Real-Time Self-Testing Quantum Random Number Generator with Non-classical States. , 2020, , .		0
8	Maximum entanglement of formation for a two-mode Gaussian state over passive operations. Physical Review A, 2020, 102, .	2.5	3
9	An integrated silicon photonic chip platform for continuous-variable quantum key distribution. Nature Photonics, 2019, 13, 839-842.	31.4	196
10	Gaussian multipartite quantum discord from classical mutual information. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 245501.	1.5	2
11	Real-Time Source-Independent Quantum Random-Number Generator with Squeezed States. Physical Review Applied, 2019, 12, .	3.8	28
12	Entanglement properties of a measurement-based entanglement distillation experiment. Physical Review A, 2019, 99, .	2.5	1
13	Violation of Bellâ€™s Inequality Using Continuous Variable Measurements. Physical Review Letters, 2018, 120, 040406.	7.8	22
14	Ultimate precision of joint quadrature parameter estimation with a Gaussian probe. Physical Review A, 2018, 97, .	2.5	27
15	Joint measurement of multiple noncommuting parameters. Physical Review A, 2018, 97, .	2.5	21
16	Loss-tolerant quantum dense metrology with SU(1,1) interferometer. Optics Express, 2018, 26, 27705.	3.4	30
17	Phase estimation of coherent states with a noiseless linear amplifier. International Journal of Quantum Information, 2017, 15, 1750009.	1.1	3
18	Overarching framework between Gaussian quantum discord and Gaussian quantum illumination. Physical Review A, 2017, 95, .	2.5	18

#	Article	IF	Citations
19	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
20	Characterization of a measurement-based noiseless linear amplifier and its applications. Physical Review A, 2017, 96, .	2.5	17
21	Quantum enhancement of signal-to-noise ratio with a heralded linear amplifier. Optica, 2017, 4, 1421.	9.3	14
22	Surpassing the no-cloning limit with a heralded hybrid linear amplifier. , 2017, , .		0
23	Estimation of output-channel noise for continuous-variable quantum key distribution. Physical Review A, 2016, 93, .	2.5	14
24	Maximizing device-independent randomness from a Bell experiment by optimizing the measurement settings. Physical Review A, 2016, 94, .	2.5	4
25	Surpassing the no-cloning limit with a heralded hybrid linear amplifier for coherent states. Nature Communications, 2016, 7, 13222.	12.8	34
26	Experimental demonstration of Gaussian protocols for one-sided device-independent quantum key distribution. Optica, 2016, 3, 634.	9.3	136
27	Maximization of Extractable Randomness in a Quantum Random-Number Generator. Physical Review Applied, 2015, 3, .	3.8	78
28	Nonlinear Entanglement and its Application to Generating Cat States. Physical Review Letters, 2015, 114, 100403.	7.8	26
29	Encoding secret information in measurement settings. International Journal of Quantum Information, 2014, 12, 1450016.	1.1	1
30	Experimental verification of quantum discord in continuous-variable states. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 025503.	1.5	13
31	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
32	Discord as a quantum resource for bi-partite communication. , 2014, , .		0
33	Experimental verification of quantum discord in continuous-variable states and operational significance of discord consumption. , 2014, , .		1
34	Measurement-based noiseless linear amplification for quantum communication. Nature Photonics, 2014, 8, 333-338.	31.4	95
35	Measurement-based noiseless linear amplification for quantum communication. , 2014, , .		5
36	Building a quantum repeater with quantum memories and noiseless amplifiers. , 2013, , .		0

#	Article	IF	Citations
37	Virtual noiseless amplification. , 2013, , .		0
38	Discord as a consumable resource. , 2013, , .		0
39	Fast real-time random numbers from vacuum fluctuations. , 2013, , .		0
40	Operational significance of discord consumption. , 2013, , .		0
41	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
42	Observing the operational significance of discordÂconsumption. Nature Physics, 2012, 8, 671-675.	16.7	201
43	Real time demonstration of high bitrate quantum random number generation with coherent laser light. Applied Physics Letters, 2011, 98, .	3.3	161
44	A functional interpretation of continuous variable quantum discord. , 2011, , .		0
45	A Functional Interpretation of Continuous Variable Quantum Discord. , 2011, , .		0
46	Observation of Entanglement between Two Light Beams Spanning an Octave in Optical Frequency. Physical Review Letters, 2008, 100, 243601.	7.8	37
47	Continuous Variable Quantum Cryptography: Post-Selection with Thermal Noise. , 2007, , .		1
48	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
49	Harmonic entanglement from second-order nonlinearity: optimization and interpretation. , 2007, , .		0
50	Security of Post-Selection Based Continuous Variable Quantum Key Distribution in the Presence of Gaussian Added Noise. , 2007, , .		1
51	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
52	Dynamical features of deoxyribonucleic acid and configuration transition in the transcription process. Journal of Physics Condensed Matter, 2006, 18, 9007-9030.	1.8	2
53	RAW-DATA ATTACKS IN QUANTUM CRYPTOGRAPHY WITH PARTIAL TOMOGRAPHY. International Journal of Quantum Information, 2006, 04, 1003-1012.	1.1	1
54	Coarctation of the Aorta - An Evolution of Therapeutic Options. Current Cardiology Reviews, 2005, 1, 239-246.	1.5	0

#	Article	IF	Citations
55	Title is missing!. Regular and Chaotic Dynamics, 2005, 10, 239.	0.8	4
56	Circular Discrepancy and a Monte Carlo Algorithm for Generating a Low Circular Discrepancy Sequence. , 2005, , 1-19.		1
57	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
58	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
59	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