Vladyslav C Usenko

List of Publications by Year in Descending Order

35 papers	1,002 citations	15 h-index	31 g-index
46 ext. papers	1,484 ext. citations	4.2 avg, IF	4.7 L-index

#	Paper	IF	Citations
35	Quantum physics in space. *Physics Reports*, **2022**, 951, 1-70	27.7	4
34	Cross talk compensation in multimode continuous-variable entanglement distribution. *Optics Express*, **2021**, 29, 24083-24101	3.3	0
33	Modulation leakage vulnerability in continuous-variable quantum key distribution. *Quantum Science and Technology*, **2021**, 6, 045001	5.5	2
32	Squeezing-enhanced quantum key distribution over atmospheric channels. *New Journal of Physics*, **2020**, 22, 053006	2.9	9
31	Advances in quantum cryptography. *Advances in Optics and Photonics*, **2020**, 12, 1012	16.7	256
30	Applicability of Squeezed- and Coherent-State Continuous-Variable Quantum Key Distribution over Satellite Links. *Entropy*, **2020**, 23,	2.8	1
29	Feasibility of quantum key distribution with macroscopically bright coherent light. *Optics Express*, **2019**, 27, 36154-36163	3.3	1
28	Fading channel estimation for free-space continuous-variable secure quantum communication. *New Journal of Physics*, **2019**, 21, 123036	2.9	20
27	Stabilization of transmittance fluctuations caused by beam wandering in continuous-variable quantum communication over free-space atmospheric channels. *Optics Express*, **2018**, 26, 31106-31115	3.3	15
26	Complete elimination of information leakage in continuous-variable quantum communication channels. *Npj Quantum Information*, **2018**, 4,	8.6	6
25	Unidimensional continuous-variable quantum key distribution using squeezed states. *Physical Review A*, **2018**, 98,	2.6	13
24	Robustness of quantum key distribution with discrete and continuous variables to channel noise. *Physical Review A*, **2017**, 95,	2.6	15
23	Continuous-variable quantum key distribution with a leakage from state preparation. *Physical Review A*, **2017**, 96,	2.6	16
22	Sufficiency of quantum non-Gaussianity for discrete-variable quantum key distribution over noisy channels. *Physical Review A*, **2017**, 96,	2.6	7
21	Preventing side-channel effects in continuous-variable quantum key distribution. *Physical Review A*, **2016**, 93,	2.6	12
20	Low-noise macroscopic twin beams. *Physical Review A*, **2016**, 93,	2.6	14
19	Estimation of the covariance matrix of macroscopic quantum states. *Physical Review A*, **2016**, 93,	2.6	3

18	Trusted Noise in Continuous-Variable Quantum Key Distribution: A Threat and a Defense. *Entropy*, **2016**, 18, 20	2.8	63
17	Heralded source of bright multi-mode mesoscopic sub-Poissonian light. *Optics Letters*, **2016**, 41, 2149-52	3	34
16	Quantum communication with macroscopically bright nonclassical states. *Optics Express*, **2015**, 23, 31534-43	3.3	9
15	Unidimensional continuous-variable quantum key distribution. *Physical Review A*, **2015**, 92,	2.6	58
14	Long-distance continuous-variable quantum key distribution with efficient channel estimation. *Physical Review A*, **2014**, 90,	2.6	52
13	Entanglement-based continuous-variable quantum key distribution with multimode states and detectors. *Physical Review A*, **2014**, 90,	2.6	17
12	Continuous variable quantum key distribution with modulated entangled states. *Nature Communications*, **2012**, 3, 1083	17.4	141
11	Entanglement of Gaussian states and the applicability to quantum key distribution over fading channels. *New Journal of Physics*, **2012**, 14, 093048	2.9	69
10	Classical correlations can enhance the continuous-variable quantum key distribution. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2011**, 111, 673-677	0.7	1
9	Squeezed-state quantum key distribution upon imperfect reconciliation. *New Journal of Physics*, **2011**, 13, 113007	2.9	43
8	Tolerance of continuous-variables quantum key distribution to the noise in state preparation. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2010**, 108, 331-335	0.7	
7	Feasibility of continuous-variable quantum key distribution with noisy coherent states. *Physical Review A*, **2010**, 81,	2.6	74
6	Quantum communication with photon-number entangled states and realistic photodetection. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2010**, 374, 1342-1345	2.3	7
5	Bit threshold optimization for multiphoton communication in lossy channels. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2007**, 103, 76-81	0.7	
4	Multiphoton communication in lossy channels with photon-number entangled states. *Physical Review A*, **2007**, 75,	2.6	20
3	Large-alphabet quantum key distribution with two-mode coherently correlated beams. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2005**, 348, 17-23	2.3	12
2	Secure quantum channels with correlated twin laser beams. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2005**, 99, 185	0.7	1
1	Quantum Cryptography with Correlated Twin Laser Beams. *Journal of Russian Laser Research*, **2004**, 25, 361-369	0.7	3