

Zhiliang Yuan

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/132526/zhiliang-yuan-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116
papers

7,355
citations

45
h-index

85
g-index

160
ext. papers

9,035
ext. citations

7.2
avg, IF

5.82
L-index

#	Paper	IF	Citations
116	Coherent phase transfer for real-world twin-field quantum key distribution.. <i>Nature Communications</i> , 2022 , 13, 157	17.4	2
115	A photonic integrated quantum secure communication system. <i>Nature Photonics</i> , 2021 , 15, 850-856	33.9	13
114	Gigahertz measurement-device-independent quantum key distribution using directly modulated lasers. <i>Npj Quantum Information</i> , 2021 , 7,	8.6	10
113	Real-time operation of a multi-rate, multi-protocol quantum key distribution transmitter. <i>Optica</i> , 2021 , 8, 911	8.6	3
112	Advanced Laser Technology for Quantum Communications (Tutorial Review). <i>Advanced Quantum Technologies</i> , 2021 , 4, 2100062	4.3	4
111	Backflashes from fast-gated avalanche photodiodes in quantum key distribution. <i>Applied Physics Letters</i> , 2020 , 116, 154001	3.4	1
110	Simple source device-independent continuous-variable quantum random number generator. <i>Physical Review A</i> , 2019 , 99,	2.6	9
109	Experimental quantum key distribution beyond the repeaterless secret key capacity. <i>Nature Photonics</i> , 2019 , 13, 334-338	33.9	125
108	A modulator-free quantum key distribution transmitter chip. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	22
107	Real-time interferometric quantum random number generation on chip. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, B137	1.7	13
106	Quantum key distribution and beyond: introduction. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, QKD1	1.7	9
105	Cambridge quantum network. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	48
104	Overcoming the rate-distance limit of quantum key distribution without quantum repeaters. <i>Nature</i> , 2018 , 557, 400-403	50.4	342
103	Quantum key distribution using in-line highly birefringent interferometers. <i>Applied Physics Letters</i> , 2018 , 113, 031107	3.4	1
102	Long-Term Test of a Fast and Compact Quantum Random Number Generator. <i>Journal of Lightwave Technology</i> , 2018 , 36, 3778-3784	4	22
101	Intensity modulation as a preemptive measure against blinding of single-photon detectors based on self-differencing cancellation. <i>Physical Review A</i> , 2018 , 98,	2.6	8
100	A direct GHz-clocked phase and intensity modulated transmitter applied to quantum key distribution. <i>Quantum Science and Technology</i> , 2018 , 3, 045010	5.5	6

99	10-Mb/s Quantum Key Distribution. <i>Journal of Lightwave Technology</i> , 2018 , 36, 3427-3433	4	75
98	Testing the photon-number statistics of a quantum key distribution light source. <i>Optics Express</i> , 2018 , 26, 22733-22749	3.3	5
97	Patterning-effect mitigating intensity modulator for secure decoy-state quantum key distribution. <i>Optics Letters</i> , 2018 , 43, 5110-5113	3	24
96	Modulator-Free Coherent-One-Way Quantum Key Distribution. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700067	8.3	7
95	Experimental measurement-device-independent quantum digital signatures. <i>Nature Communications</i> , 2017 , 8, 1098	17.4	56
94	Quantifying backflash radiation to prevent zero-error attacks in quantum key distribution. <i>Light: Science and Applications</i> , 2017 , 6, e16261	16.7	30
93	Quantum key distribution with hacking countermeasures and long term field trial. <i>Scientific Reports</i> , 2017 , 7, 1978	4.9	18
92	Manipulating photon coherence to enhance the security of distributed phase reference quantum key distribution. <i>Applied Physics Letters</i> , 2017 , 111, 261106	3.4	6
91	Long-distance quantum key distribution secure against coherent attacks. <i>Optica</i> , 2017 , 4, 163	8.6	88
90	Setting best practice criteria for self-differencing avalanche photodiodes in quantum key distribution 2017 ,		1
89	Decoy-state quantum key distribution with a leaky source. <i>New Journal of Physics</i> , 2016 , 18, 065008	2.9	39
88	Practical challenges in quantum key distribution. <i>Npj Quantum Information</i> , 2016 , 2,	8.6	269
87	Ultra-high bandwidth quantum secured data transmission. <i>Scientific Reports</i> , 2016 , 6, 35149	4.9	63
86	Near perfect mode overlap between independently seeded, gain-switched lasers. <i>Optics Express</i> , 2016 , 24, 17849-59	3.3	11
85	An entangled-LED-driven quantum relay over 1 km. <i>Npj Quantum Information</i> , 2016 , 2,	8.6	28
84	Quantum key distribution without detector vulnerabilities using optically seeded lasers. <i>Nature Photonics</i> , 2016 , 10, 312-315	33.9	138
83	Quantum key distribution over multicore fiber. <i>Optics Express</i> , 2016 , 24, 8081-7	3.3	50
82	Introduction to the Issue on Quantum Communication and Cryptography. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015 , 21, 3-4	3.8	4

81	Security Bounds for Efficient Decoy-State Quantum Key Distribution. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015 , 21, 197-204	3.8	15
80	High speed prototype quantum key distribution system and long term field trial. <i>Optics Express</i> , 2015 , 23, 7583-92	3.3	52
79	Gigahertz-gated InGaAs/InP single-photon detector with detection efficiency exceeding 55% at 1550 nm. <i>Journal of Applied Physics</i> , 2015 , 117, 083109	2.5	60
78	Efficient and robust quantum random number generation by photon number detection. <i>Applied Physics Letters</i> , 2015 , 107, 071106	3.4	28
77	Quantum secured gigabit optical access networks. <i>Scientific Reports</i> , 2015 , 5, 18121	4.9	28
76	Quantum key distribution with an entangled light emitting diode. <i>Applied Physics Letters</i> , 2015 , 107, 261101	3.4	8
75	Quantum Secured Gigabit Passive Optical Networks 2015 ,		2
74	Practical Security Bounds Against the Trojan-Horse Attack in Quantum Key Distribution. <i>Physical Review X</i> , 2015 , 5,	9.1	51
73	Room temperature single-photon detectors for high bit rate quantum key distribution. <i>Applied Physics Letters</i> , 2014 , 104, 021101	3.4	57
72	Interference of Short Optical Pulses from Independent Gain-Switched Laser Diodes for Quantum Secure Communications. <i>Physical Review Applied</i> , 2014 , 2,	4.3	21
71	Worldwide standardization activity for quantum key distribution 2014 ,		7
70	Field trial of a quantum secured 10 Gb/s DWDM transmission system over a single installed fiber. <i>Optics Express</i> , 2014 , 22, 23121-8	3.3	47
69	First quantum secured 10-Gb/s DWDM transmission over the same installed fibre 2014 ,		2
68	Robust random number generation using steady-state emission of gain-switched laser diodes. <i>Applied Physics Letters</i> , 2014 , 104, 261112	3.4	73
67	Quantum key distribution for 10 Gb/s dense wavelength division multiplexing networks. <i>Applied Physics Letters</i> , 2014 , 104, 051123	3.4	115
66	A quantum access network. <i>Nature</i> , 2013 , 501, 69-72	50.4	154
65	Efficient decoy-state quantum key distribution with quantified security. <i>Optics Express</i> , 2013 , 21, 24550-65	6.5	102
64	Security of two-way quantum key distribution. <i>Physical Review A</i> , 2013 , 88,	2.6	47

63	Coexistence of High-Bit-Rate Quantum Key Distribution and Data on Optical Fiber. <i>Physical Review X</i> , 2012 , 2,	9.1	81
62	Practical photon number detection with electric field-modulated silicon avalanche photodiodes. <i>Nature Communications</i> , 2012 , 3, 644	17.4	19
61	Practical treatment of quantum bugs 2012 ,		2
60	Gigacount/second photon detection with InGaAs avalanche photodiodes. <i>Electronics Letters</i> , 2012 , 48, 111	1.1	25
59	Stability of high bit rate quantum key distribution on installed fiber. <i>Optics Express</i> , 2012 , 20, 16339	3.3	50
58	Field test of quantum key distribution in the Tokyo QKD Network. <i>Optics Express</i> , 2011 , 19, 10387-409	3.3	579
57	Probing higher order correlations of the photon field with photon number resolving avalanche photodiodes. <i>Optics Express</i> , 2011 , 19, 13268-76	3.3	15
56	Resilience of gated avalanche photodiodes against bright illumination attacks in quantum cryptography. <i>Applied Physics Letters</i> , 2011 , 98, 231104	3.4	62
55	Tokyo QKD Network and the evolution to Secure Photonic Network 2011 ,		5
54	Response to Comment on Resilience of gated avalanche photodiodes against bright illumination attacks in quantum cryptography [Appl. Phys. Lett. 99, 196101 (2011)]. <i>Applied Physics Letters</i> , 2011 , 99, 196102	3.4	10
53	Avoiding the blinding attack in QKD. <i>Nature Photonics</i> , 2010 , 4, 800-801	33.9	87
52	Compensating the noise of a communication channel via asymmetric encoding of quantum information. <i>Physical Review Letters</i> , 2010 , 105, 140504	7.4	3
51	Evolution of locally excited avalanches in semiconductors. <i>Applied Physics Letters</i> , 2010 , 96, 191107	3.4	9
50	Multi-gigahertz operation of photon counting InGaAs avalanche photodiodes. <i>Applied Physics Letters</i> , 2010 , 96, 071101	3.4	58
49	Efficient photon number detection with silicon avalanche photodiodes. <i>Applied Physics Letters</i> , 2010 , 97, 031102	3.4	29
48	Continuous operation of high bit rate quantum key distribution. <i>Applied Physics Letters</i> , 2010 , 96, 161102	3.4	123
47	Biexciton cascade in telecommunication wavelength quantum dots. <i>Journal of Physics: Conference Series</i> , 2010 , 210, 012036	0.3	2
46	Robust unconditionally secure quantum key distribution with two nonorthogonal and uninformative states. <i>Physical Review A</i> , 2009 , 80,	2.6	15

45	Practical gigahertz quantum key distribution based on avalanche photodiodes. <i>New Journal of Physics</i> , 2009 , 11, 045019	2.9	33
44	Efficient entanglement distribution over 200 kilometers. <i>Optics Express</i> , 2009 , 17, 11440-9	3.3	79
43	The SECOQC quantum key distribution network in Vienna. <i>New Journal of Physics</i> , 2009 , 11, 075001	2.9	424
42	Ultrashort dead time of photon-counting InGaAs avalanche photodiodes. <i>Applied Physics Letters</i> , 2009 , 94, 231113	3.4	45
41	Quantum communication using single photons from a semiconductor quantum dot emitting at a telecommunication wavelength. <i>Journal of Optics</i> , 2009 , 11, 054005		12
40	An avalanche-photodiode-based photon-number-resolving detector. <i>Nature Photonics</i> , 2008 , 2, 425-428	33.9	171
39	Two-way quantum key distribution at telecommunication wavelength. <i>Physical Review A</i> , 2008 , 77,	2.6	21
38	Gigahertz decoy quantum key distribution with 1 Mbit/s secure key rate. <i>Optics Express</i> , 2008 , 16, 18790-3	3.3	167
37	Decoy pulse quantum key distribution for practical purposes. <i>IET Optoelectronics</i> , 2008 , 2, 195	1.5	3
36	A high speed, postprocessing free, quantum random number generator. <i>Applied Physics Letters</i> , 2008 , 93, 031109	3.4	146
35	Experimental position-time entanglement with degenerate single photons. <i>Physical Review A</i> , 2008 , 77,	2.6	7
34	Gigahertz quantum key distribution with InGaAs avalanche photodiodes. <i>Applied Physics Letters</i> , 2008 , 92, 201104	3.4	78
33	High speed single photon detection in the near infrared. <i>Applied Physics Letters</i> , 2007 , 91, 041114	3.4	195
32	Electrically driven telecommunication wavelength single-photon source. <i>Applied Physics Letters</i> , 2007 , 90, 063512	3.4	60
31	Unconditionally secure one-way quantum key distribution using decoy pulses. <i>Applied Physics Letters</i> , 2007 , 90, 011118	3.4	92
30	Quantum key distribution using a triggered quantum dot source emitting near 1.3 μ m. <i>Applied Physics Letters</i> , 2007 , 91, 161103	3.4	56
29	Key to the quantum industry. <i>Physics World</i> , 2007 , 20, 24-29	0.5	18
28	Practical quantum key distribution over 60 hours at an optical fiber distance of 20km using weak and vacuum decoy pulses for enhanced security. <i>Optics Express</i> , 2007 , 15, 8465-71	3.3	21

27	Experimental test of two-way quantum key distribution in the presence of controlled noise. <i>Physical Review Letters</i> , 2006 , 96, 200501	7.4	46
26	Single-photon-emitting diodes: a review. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3730-3740	1.3	22
25	Quantum dots for single photon and photon pair technology 2006 , 288-297		
24	Continuous operation of a one-way quantum key distribution system over installed telecom fibre. <i>Optics Express</i> , 2005 , 13, 660-5	3.3	62
23	On-demand single-photon source for 1.3 μ m telecom fiber. <i>Applied Physics Letters</i> , 2005 , 86, 201111	3.4	103
22	Comment on "secure communication using mesoscopic coherent states". <i>Physical Review Letters</i> , 2005 , 94, 048901; author reply 048902	7.4	14
21	Unconditionally secure quantum key distribution over 50 km of standard telecom fibre. <i>Electronics Letters</i> , 2004 , 40, 1603	1.1	20
20	Single quantum dot electroluminescence near. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 21, 390-394	3	9
19	Quantum key distribution over 122 km of standard telecom fiber. <i>Applied Physics Letters</i> , 2004 , 84, 3762-3764	3.4	433
18	Self-assembled quantum dots as a source of single photons and photon pairs. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 238, 353-359	1.3	5
17	Electrically driven single-photon source. <i>Science</i> , 2002 , 295, 102-5	33.3	934
16	Recombination of Many-Particle States in InAs Self-Organized Quantum Dots. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 224, 409-412	1.3	4
15	Dynamical Band Gap Renormalization in Self-Organized InAs/GaAs Quantum Dots. <i>Physica Status Solidi A</i> , 2000 , 178, 345-348		4
14	Intrawell and interwell transfer of excitons in growth-interrupted quantum wells. <i>Superlattices and Microstructures</i> , 1998 , 24, 163-167	2.8	2
13	Thermal activation and thermal transfer of localized excitons in InAs self-organized quantum dots. <i>Superlattices and Microstructures</i> , 1998 , 23, 381-387	2.8	53
12	Comment on High-efficiency energy up-conversion at GaAs-GaN _{0.2} P _{0.8} interfaces [Appl. Phys. Lett. 67, 2813 (1995)]. <i>Applied Physics Letters</i> , 1997 , 70, 1628-1629	3.4	1
11	Optical characterization of InAs monolayer quantum structures grown on (311)A, (311)B, and (100) GaAs substrates. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1997 , 3, 471-474	3.8	4
10	Carrier relaxation and thermal activation of localized excitons in self-organized InAs multilayers grown on GaAs substrates. <i>Physical Review B</i> , 1996 , 54, 11528-11531	3.3	197

- 9 Effective-mass theory for InAs/GaAs strained coupled quantum dots. *Physical Review B*, **1996**, 54, 11575-11581 121
- 8 Photoluminescence studies on the interaction of near-surface GaAs/Al_xGa_{1-x}As quantum wells with chemical adsorbates. *Journal of Photochemistry and Photobiology A: Chemistry*, **1996**, 101, 113-117 4-7 2
- 7 Two-dimensional excitonic emission in InAs submonolayers. *Physical Review B*, **1996**, 54, 16919-16924 3-3 22
- 6 Optical study of heterointerface configuration in narrow GaAs/AlGaAs single quantum wells prepared with growth interruption. *Journal of Applied Physics*, **1996**, 79, 1073 2-5 8
- 5 Energy relaxation processes of hot quasi-two-dimensional excitons in very thin GaAs/AlGaAs quantum wells by exciton-acoustic-phonon interaction. *Journal of Applied Physics*, **1996**, 79, 424-426 2-5 12
- 4 Photoluminescence studies of chemical adsorption of GaAs/Al_xGa_{1-x}As multi-quantum well semiconductor. *Journal of the Chemical Society Chemical Communications*, **1995**, 1439-1440 4
- 3 Photoluminescence studies of single submonolayer InAs structures grown on GaAs (001) matrix. *Applied Physics Letters*, **1995**, 67, 1874-1876 3-4 10
- 2 Exciton localization in corrugated GaAs/AlAs superlattices grown on (311) GaAs substrates. *Physical Review B*, **1995**, 51, 7024-7028 3-3 10
- 1 600-km repeater-like quantum communications with dual-band stabilization. *Nature Photonics*, 33-9 25