# Yu-Bo Sheng

## List of Publications by Year in Descending Order



| | | | |
|---|---|---|---|
| 118 papers | 4,750 citations | 36 h-index | 67 g-index |
| 123 ext. papers | 5,440 ext. citations | 2.7 avg, IF | 6.48 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 118 | Measurement-based entanglement purification for entangled coherent states. *Frontiers of Physics*, **2022**, 17, 1 | 3.7 | 5 |
| 117 | One-step device-independent quantum secure direct communication. *Science China: Physics, Mechanics and Astronomy*, **2022**, 65, 1 | 3.6 | 7 |
| 116 | Experimental one-step deterministic polarization entanglement purification. *Science Bulletin*, **2022**, 67, 593-597 | 10.6 | 5 |
| 115 | Efficient generation protocol for the three-level logical entangled states. *Quantum Information Processing*, **2022**, 21, 1 | 1.6 | |
| 114 | A survey on advances of quantum repeater. *Europhysics Letters*, **2021**, 136, 14001 | 1.6 | 0 |
| 113 | One-step quantum secure direct communication. *Science Bulletin*, **2021**, | 10.6 | 24 |
| 112 | Feasible measurement-based entanglement purification in linear optics. *Optics Express*, **2021**, 29, 9363-9384 | 3.3 | 11 |
| 111 | Practical amplification for a single photon qudit encoded in three degrees of freedom. *Laser Physics Letters*, **2021**, 18, 055203 | 1.5 | |
| 110 | Logic W-state concentration with parity check. *Quantum Engineering*, **2021**, 3, e63 | 4.5 | 1 |
| 109 | Feasible noiseless linear amplification for single-photon qudit and two-photon hyperentanglement encoded in three degrees of freedom. *Quantum Information Processing*, **2021**, 20, 1 | 1.6 | |
| 108 | Multipartite entanglement purification using time-bin entanglement. *Laser Physics Letters*, **2021**, 18, 065205 | 1.5 | |
| 107 | Feasible high-dimensional measurement-device-independent quantum key distribution. *Laser Physics Letters*, **2021**, 18, 075204 | 1.5 | 1 |
| 106 | Measurement-device-independent quantum key distribution of multiple degrees of freedom of a single photon. *Frontiers of Physics*, **2021**, 16, 1 | 3.7 | 13 |
| 105 | Feasible time-bin entanglement purification based on sum-frequency generation. *Optics Express*, **2021**, 29, 571-583 | 3.3 | 11 |
| 104 | Long-Distance Entanglement Purification for Quantum Communication. *Physical Review Letters*, **2021**, 126, 010503 | 7.4 | 46 |
| 103 | Economical multi-photon polarization entanglement purification with Bell state. *Quantum Information Processing*, **2021**, 20, 1 | 1.6 | 0 |
| 102 | Measurement-device-independent quantum dialogue based on hyperentanglement. *Quantum Information Processing*, **2021**, 20, 1 | 1.6 | 0 |

| | | | |
|---|---|---|---|
| 101 | Quantum-enhanced interferometry with asymmetric beam splitters. *Science China: Physics, Mechanics and Astronomy*, **2020**, 63, 1 | 3.6 | 7 |
| 100 | Purification of the residual entanglement. *Optics Express*, **2020**, 28, 2291-2301 | 3.3 | 18 |
| 99 | Generation of an arbitrary logic W state with cross-Kerr nonlinearities. *Laser Physics Letters*, **2020**, 17, 115203 | 1.5 | 1 |
| 98 | Device-independent quantum secure direct communication against collective attacks. *Science Bulletin*, **2020**, 65, 12-20 | 10.6 | 115 |
| 97 | Measurement-device-independent quantum secure direct communication. *Science China: Physics, Mechanics and Astronomy*, **2020**, 63, 1 | 3.6 | 91 |
| 96 | Multi-copy nested entanglement purification for quantum repeaters. *Annals of Physics*, **2020**, 412, 168042 | 2.5 | 6 |
| 95 | High-capacity measurement-device-independent quantum secure direct communication. *Quantum Information Processing*, **2020**, 19, 1 | 1.6 | 10 |
| 94 | Ancilla-assisted frequency estimation under phase covariant noises with Greenberger□Horne□Zeilinger states. *Quantum Information Processing*, **2020**, 19, 1 | 1.6 | 0 |
| 93 | Entanglement-assisted noiseless linear amplification for arbitrary two-photon polarization□time-bin hyperentanglement. *Quantum Information Processing*, **2020**, 19, 1 | 1.6 | 4 |
| 92 | Measurement-device□independent quantum secure direct communication of multiple degrees of freedom of a single photon. *Europhysics Letters*, **2020**, 131, 40005 | 1.6 | 19 |
| 91 | Measurement of the concurrence of arbitrary two-photon six-qubit hyperentangled state. *Europhysics Letters*, **2020**, 129, 50004 | 1.6 | 5 |
| 90 | Linear-optical heralded amplification protocol for two-photon spatial-mode-polarization hyperentangled state. *Quantum Information Processing*, **2019**, 18, 1 | 1.6 | 8 |
| 89 | Measurement-device-independent quantum key distribution with hyper-encoding. *Science China: Physics, Mechanics and Astronomy*, **2019**, 62, 1 | 3.6 | 59 |
| 88 | Noiseless linear amplification for the single-photon entanglement of arbitrary polarization□time-bin qudit. *Chinese Physics B*, **2019**, 28, 010302 | 1.2 | 7 |
| 87 | Certifying quantum teleportation experimentally. *Quantum Engineering*, **2019**, 1, e22 | 4.5 | 9 |
| 86 | Direct measurement of the concurrence of hybrid entangled state based on parity check measurements. *Chinese Physics B*, **2019**, 28, 010301 | 1.2 | 8 |
| 85 | The Phase Sensitivities for Different Phase-Shift Configurations in an SU(1,1) Interferometer. *Communications in Theoretical Physics*, **2019**, 71, 1435 | 2.4 | 0 |
| 84 | Logic Bell state concentration with parity check measurement. *Frontiers of Physics*, **2019**, 14, 1 | 3.7 | 16 |

| | | | |
|---|---|---|---|
| 83 | Heralded noiseless amplification for single-photon entangled state with polarization feature. *Quantum Information Processing*, **2018**, 17, 1 | 1.6 | 5 |
| 82 | Three-step three-party quantum secure direct communication. *Science China: Physics, Mechanics and Astronomy*, **2018**, 61, 1 | 3.6 | 102 |
| 81 | Purification of the concatenated Greenberger–Horne–Zeilinger state with linear optics. *Quantum Information Processing*, **2018**, 17, 1 | 1.6 | 5 |
| 80 | Recyclable amplification for single-photon entanglement from photon loss and decoherence. *Laser Physics Letters*, **2018**, 15, 015201 | 1.5 | 4 |
| 79 | Blind quantum computation with a noise channel. *Physical Review A*, **2018**, 98, | 2.6 | 40 |
| 78 | Construction of quantum gates for concatenated Greenberger–Horne–Zeilinger-type logic qubit. *Quantum Information Processing*, **2018**, 17, 1 | 1.6 | |
| 77 | Heralded amplification of single-photon entanglement with polarization feature. *Frontiers of Physics*, **2018**, 13, 1 | 3.7 | 4 |
| 76 | Measurement-device-independent quantum communication without encryption. *Science Bulletin*, **2018**, 63, 1345-1350 | 10.6 | 86 |
| 75 | Optimal multi-photon entanglement concentration with the photonic Faraday rotation. *Chinese Physics B*, **2017**, 26, 020302 | 1.2 | 2 |
| 74 | Generation of concatenated Greenberger–Horne–Zeilinger-type entangled coherent state based on linear optics. *Quantum Information Processing*, **2017**, 16, 1 | 1.6 | 5 |
| 73 | Protecting single-photon entanglement with practical entanglement source. *Quantum Information Processing*, **2017**, 16, 1 | 1.6 | 7 |
| 72 | Multi-copy entanglement purification with practical spontaneous parametric down conversion sources. *Chinese Physics B*, **2017**, 26, 060307 | 1.2 | 3 |
| 71 | Generation of an arbitrary concatenated Greenberger–Horne–Zeilinger state with single photons. *Laser Physics Letters*, **2017**, 14, 025203 | 1.5 | 3 |
| 70 | Polarization entanglement purification for concatenated Greenberger–Horne–Zeilinger state. *Annals of Physics*, **2017**, 385, 10-35 | 2.5 | 35 |
| 69 | Experimental long-distance quantum secure direct communication. *Science Bulletin*, **2017**, 62, 1519-1524 | 10.6 | 148 |
| 68 | Distributed secure quantum machine learning. *Science Bulletin*, **2017**, 62, 1025-1029 | 10.6 | 157 |
| 67 | Electronic Entanglement Concentration for the Concatenated Greenberger-Horne-Zeilinger State. *International Journal of Theoretical Physics*, **2017**, 56, 1912-1928 | 1.1 | 4 |
| 66 | Quantum Secure Direct Communication with Quantum Memory. *Physical Review Letters*, **2017**, 118, 220501 | 7.4 | 329 |

| | | | |
|---|---|---|---|
| 65 | Entanglement Concentration for Arbitrary Four-Photon Cluster State Assisted with Single Photons. *International Journal of Theoretical Physics*, **2016**, 55, 1128-1144 | 1.1 | 2 |
| 64 | Purification of Logic-Qubit Entanglement. *Scientific Reports*, **2016**, 6, 28813 | 4.9 | 49 |
| 63 | Linear-optical qubit amplification with spontaneous parametric down-conversion source. *Laser Physics*, **2016**, 26, 015204 | 1.2 | 9 |
| 62 | Efficient entanglement concentration for concatenated Greenberger□Horne□Zeilinger state with the cross-Kerr nonlinearity. *Quantum Information Processing*, **2016**, 15, 1669-1687 | 1.6 | 26 |
| 61 | Efficient entanglement concentration for arbitrary less-entangled NOON state assisted by single photons. *Chinese Physics B*, **2016**, 25, 020308 | 1.2 | 1 |
| 60 | Hybrid entanglement concentration assisted with single coherent state. *Chinese Physics B*, **2016**, 25, 030302 | 1.2 | 7 |
| 59 | Feasible logic Bell-state analysis with linear optics. *Scientific Reports*, **2016**, 6, 20901 | 4.9 | 26 |
| 58 | Arbitrary Four-Photon Cluster State Concentration with Cross-Kerr Nonlinearity. *International Journal of Theoretical Physics*, **2015**, 54, 1292-1303 | 1.1 | 7 |
| 57 | Deterministic entanglement distillation for secure double-server blind quantum computation. *Scientific Reports*, **2015**, 5, 7815 | 4.9 | 126 |
| 56 | Entanglement analysis for macroscopic Schr□inger\s Cat state. *Europhysics Letters*, **2015**, 109, 40009 | 1.6 | 16 |
| 55 | Efficient N-particle W state concentration with different parity check gates. *Science China: Physics, Mechanics and Astronomy*, **2015**, 58, 1-11 | 3.6 | 77 |
| 54 | Recyclable amplification protocol for the single-photon entangled state. *Laser Physics Letters*, **2015**, 12, 045203 | 1.5 | 38 |
| 53 | Distillation of arbitrary single-photon entanglement assisted with polarized Bell states. *Quantum Information Processing*, **2015**, 14, 3693-3710 | 1.6 | 5 |
| 52 | Entanglement concentration for concatenated Greenberger□Horne□Zeilinger state. *Quantum Information Processing*, **2015**, 14, 4131-4146 | 1.6 | 20 |
| 51 | Direct measurement of the concurrence for two-qubit electron spin entangled pure state based on charge detection. *Chinese Physics B*, **2015**, 24, 070309 | 1.2 | 7 |
| 50 | Entanglement assisted single-photon W state amplification. *Optics Communications*, **2015**, 340, 80-85 | 2 | 12 |
| 49 | Fast multi-copy entanglement purification with linear optics. *Chinese Physics B*, **2015**, 24, 120306 | 1.2 | 4 |
| 48 | Complete logic Bell-state analysis assisted with photonic Faraday rotation. *Physical Review A*, **2015**, 92, | 2.6 | 70 |

| | | | |
|---|---|---|---|
| 47 | Concurrence Measurement for the Two-Qubit Optical and Atomic States. *Entropy*, **2015**, 17, 4293-4322 | 2.8 | 27 |
| 46 | Two-step complete polarization logic Bell-state analysis. *Scientific Reports*, **2015**, 5, 13453 | 4.9 | 60 |
| 45 | Cascaded Multi-Level Linear-Optical Quantum Router. *International Journal of Theoretical Physics*, **2015**, 54, 3004-3017 | 1.1 | 5 |
| 44 | Protecting single-photon entanglement with imperfect single-photon source. *Quantum Information Processing*, **2015**, 14, 635-651 | 1.6 | 13 |
| 43 | Two-step measurement of the concurrence for hyperentangled state. *Quantum Information Processing*, **2015**, 14, 963-978 | 1.6 | 33 |
| 42 | Experimental optimal single qubit purification in an NMR quantum information processor. *Scientific Reports*, **2014**, 4, 6857 | 4.9 | 18 |
| 41 | Atomic entanglement purification using photonic Faraday rotation. *Quantum Information Processing*, **2014**, 13, 881-893 | 1.6 | 6 |
| 40 | Practical Entanglement Concentration for Entangled Coherent States. *International Journal of Theoretical Physics*, **2014**, 53, 2033-2040 | 1.1 | 7 |
| 39 | Detection of nonlocal atomic entanglement assisted by single photons. *Physical Review A*, **2014**, 90, | 2.6 | 55 |
| 38 | Deterministic polarization entanglement purification using time-bin entanglement. *Laser Physics Letters*, **2014**, 11, 085203 | 1.5 | 77 |
| 37 | Entanglement concentration for W-type entangled coherent states. *Chinese Physics B*, **2014**, 23, 080305 | 1.2 | 15 |
| 36 | Arbitrary atomic cluster state concentration for one-way quantum computation. *Journal of the Optical Society of America B: Optical Physics*, **2014**, 31, 503 | 1.7 | 4 |
| 35 | Protecting sing-photon multi-mode W state from photon loss. *Quantum Information Processing*, **2014**, 13, 1595-1605 | 1.6 | 13 |
| 34 | Electronic cluster state entanglement concentration based on charge detection. *Chinese Physics B*, **2014**, 23, 020313 | 1.2 | 5 |
| 33 | Analytical and Numerical Studies of Quantum Plateau State in One Alternating Heisenberg Chain. *Communications in Theoretical Physics*, **2014**, 61, 263-269 | 2.4 | 3 |
| 32 | Arbitrary Partially Entangled Three-Electron W State Concentration with Controlled-Not Gates. *Chinese Physics Letters*, **2014**, 31, 050303 | 1.8 | 9 |
| 31 | Efficient single-photon entanglement concentration for quantum communications. *Optics Communications*, **2014**, 313, 217-222 | 2 | 14 |
| 30 | Efficient Entanglement Concentration for Arbitrary Less-Entangled N-Atom GHZ State. *International Journal of Theoretical Physics*, **2014**, 53, 1752-1766 | 1.1 | 6 |

| | | | |
|---|---|---|---|
| 29 | Efficient entanglement concentration for quantum dot and optical microcavities systems. *Quantum Information Processing*, **2013**, 12, 1885-1895 | 1.6 | 55 |
| 28 | The influence of atmospheric turbulence on holographic ghost imaging using orbital angular momentum entanglement: Simulation and experimental studies. *Optics Communications*, **2013**, 294, 223-228 | 2 | 25 |
| 27 | Two-step entanglement concentration for arbitrary electronic cluster state. *Quantum Information Processing*, **2013**, 12, 3633-3647 | 1.6 | 21 |
| 26 | Multipartite entanglement concentration for nitrogen-vacancy center and microtoroidal resonator system. *Science Bulletin*, **2013**, 58, 3507-3513 | | 43 |
| 25 | Complete GreenbergerHornZeilinger state analyzer using hyperentanglement. *Quantum Information Processing*, **2013**, 12, 381-393 | 1.6 | 19 |
| 24 | Efficient entanglement concentration for arbitrary less-entangled NOON states. *Quantum Information Processing*, **2013**, 12, 1307-1320 | 1.6 | 37 |
| 23 | Hybrid entanglement purification for quantum repeaters. *Physical Review A*, **2013**, 88, | 2.6 | 90 |
| 22 | Efficient W-state entanglement concentration using quantum-dot and optical microcavities. *Journal of the Optical Society of America B: Optical Physics*, **2013**, 30, 678 | 1.7 | 45 |
| 21 | Efficient entanglement concentration for arbitrary single-photon multimode W state. *Journal of the Optical Society of America B: Optical Physics*, **2013**, 30, 71 | 1.7 | 38 |
| 20 | Distilling single-photon entanglement from photon loss and decoherence. *Journal of the Optical Society of America B: Optical Physics*, **2013**, 30, 2737 | 1.7 | 13 |
| 19 | Quantum Entanglement Concentration Based on Nonlinear Optics for Quantum Communications. *Entropy*, **2013**, 15, 1776-1820 | 2.8 | 65 |
| 18 | Efficient electronic entanglement concentration assisted by single mobile electrons. *Chinese Physics B*, **2013**, 22, 110303 | 1.2 | 5 |
| 17 | Optimal entanglement concentration for three-photon W states with parity check measurement. *Chinese Physics B*, **2013**, 22, 020307 | 1.2 | 17 |
| 16 | Improving the Atmosphere Turbulence Tolerance in Holographic Ghost Imaging System by Channel Coding. *Journal of Lightwave Technology*, **2013**, 31, 2823-2828 | 4 | 17 |
| 15 | One-step deterministic multipartite entanglement purification with linear optics. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2012**, 376, 314-319 | 2.3 | 17 |
| 14 | Quantum discord and classical correlation signatures of mobility edges in one-dimensional aperiodic single-electron systems. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2012**, 376, 3026-3032 | 2.3 | 7 |
| 13 | Efficient two-step entanglement concentration for arbitrary W states. *Physical Review A*, **2012**, 85, | 2.6 | 175 |
| 12 | Efficient single-photon-assisted entanglement concentration for partially entangled photon pairs. *Physical Review A*, **2012**, 85, | 2.6 | 227 |

| | | | |
|---|---|---|---|
| 11 | Multipartite electronic entanglement purification with charge detection. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2011**, 375, 396-400 | 2.3 | 43 |
| 10 | Complete hyperentangled-Bell-state analysis for quantum communication. *Physical Review A*, **2010**, 82, | 2.6 | 257 |
| 9 | Efficient quantum entanglement distribution over an arbitrary collective-noise channel. *Physical Review A*, **2010**, 81, | 2.6 | 56 |
| 8 | Deterministic entanglement purification and complete nonlocal Bell-state analysis with hyperentanglement. *Physical Review A*, **2010**, 81, | 2.6 | 301 |
| 7 | One-step deterministic polarization-entanglement purification using spatial entanglement. *Physical Review A*, **2010**, 82, | 2.6 | 218 |
| 6 | FAULT TOLERANT QUANTUM KEY DISTRIBUTION BASED ON QUANTUM DENSE CODING WITH COLLECTIVE NOISE. *International Journal of Quantum Information*, **2009**, 07, 1479-1489 | 0.8 | 57 |
| 5 | Efficient faithful qubit transmission with frequency degree of freedom. *Optics Communications*, **2009**, 282, 4025-4027 | 2 | 19 |
| 4 | Efficient polarization entanglement concentration for electrons with charge detection. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2009**, 373, 1823-1825 | 2.3 | 45 |
| 3 | Efficient entanglement purification for doubly entangled photon state. *Science in China Series D: Earth Sciences*, **2009**, 52, 3464-3467 | | 19 |
| 2 | Efficient polarization-entanglement purification based on parametric down-conversion sources with cross-Kerr nonlinearity. *Physical Review A*, **2008**, 77, | 2.6 | 263 |
| 1 | Nonlocal entanglement concentration scheme for partially entangled multipartite systems with nonlinear optics. *Physical Review A*, **2008**, 77, | 2.6 | 235 |