# Xiu-Bo Chen

## List of Publications by Year
in descending order

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|---|---|---|---|
| 117 papers | 2,857 citations | 147801 31 h-index | 206112 48 g-index |
| 119 all docs | 119 docs citations | 119 times ranked | 784 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | An efficient protocol for the private comparison of equal information based on the triplet entangled state and single-particle measurement. Optics Communications, 2010, 283, 1561-1565. | 2.1 | 202 |
| 2 | Joint remote preparation of an arbitrary three-qubit state. Optics Communications, 2010, 283, 4796-4801. | 2.1 | 121 |
| 3 | A Secure Cryptocurrency Scheme Based on Post-Quantum Blockchain. IEEE Access, 2018, 6, 27205-27213. | 4.2 | 121 |
| 4 | An efficient and secure multiparty quantum secret sharing scheme based on single photons. Optics Communications, 2008, 281, 6130-6134. | 2.1 | 92 |
| 5 | Controlled remote state preparation of arbitrary two and three qubit states via the Brown state. Quantum Information Processing, 2012, 11, 1653-1667. | 2.2 | 91 |
| 6 | CONTROLLED QUANTUM SECURE DIRECT COMMUNICATION WITH W STATE. International Journal of Quantum Information, 2008, 06, 899-906. | 1.1 | 83 |
| 7 | Multiparty quantum secret sharing based on Bell measurement. Optics Communications, 2009, 282, 3647-3651. | 2.1 | 79 |
| 8 | An Efficient Protocol for the Secure Multi-party Quantum Summation. International Journal of Theoretical Physics, 2010, 49, 2793-2804. | 1.2 | 72 |
| 9 | CONTROLLED QUANTUM SECURE DIRECT COMMUNICATION WITH QUANTUM ENCRYPTION. International Journal of Quantum Information, 2008, 06, 543-551. | 1.1 | 70 |
| 10 | Novel quantum steganography with large payload. Optics Communications, 2010, 283, 4782-4786. | 2.1 | 64 |
| 11 | Multi-party quantum secret sharing with the single-particle quantum state to encode the information. Quantum Information Processing, 2013, 12, 365-380. | 2.2 | 62 |
| 12 | A New Lattice-Based Signature Scheme in Post-Quantum Blockchain Network. IEEE Access, 2019, 7, 2026-2033. | 4.2 | 61 |
| 13 | Probabilistic quantum network coding of -qudit states over the butterfly network. Optics Communications, 2010, 283, 497-501. | 2.1 | 52 |
| 14 | Efficient and feasible quantum private comparison of equality against the collective amplitude damping noise. Quantum Information Processing, 2014, 13, 101-112. | 2.2 | 49 |
| 15 | Experimental architecture of joint remote state preparation. Quantum Information Processing, 2012, 11, 751-767. | 2.2 | 48 |
| 16 | Controlled bidirectional remote preparation of three-qubit state. Quantum Information Processing, 2017, 16, 1. | 2.2 | 47 |
| 17 | An efficient anti-quantum lattice-based blind signature for blockchain-enabled systems. Information Sciences, 2021, 546, 253-264. | 6.9 | 47 |
| 18 | Joint Remote Preparation of an Arbitrary Two-Qubit State in Noisy Environments. International Journal of Theoretical Physics, 2014, 53, 2236-2245. | 1.2 | 46 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Quantum private query with perfect user privacy against a joint-measurement attack. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 4033-4038. | 2.1 | 46 |
| 20 | Quantum circuits for controlled teleportation of two-particle entanglement via a W state. Optics Communications, 2008, 281, 2331-2335. | 2.1 | 45 |
| 21 | Remote preparation of a four-particle entangled cluster-type state. Optics Communications, 2011, 284, 4088-4093. | 2.1 | 44 |
| 22 | Perfect Quantum Network Coding Independent of Classical Network Solutions. IEEE Communications Letters, 2015, 19, 115-118. | 4.1 | 43 |
| 23 | Quantum steganography with large payload based on entanglement swapping of Ï‡-type entangled states. Optics Communications, 2011, 284, 2075-2082. | 2.1 | 39 |
| 24 | AN EFFICIENT PROTOCOL FOR THE QUANTUM PRIVATE COMPARISON OF EQUALITY WITH A FOUR-QUBIT CLUSTER STATE. International Journal of Quantum Information, 2012, 10, 1250045. | 1.1 | 39 |
| 25 | A novel protocol for multiparty quantum key management. Quantum Information Processing, 2015, 14, 2959-2980. | 2.2 | 39 |
| 26 | Network coding for quantum cooperative multicast. Quantum Information Processing, 2015, 14, 4297-4322. | 2.2 | 39 |
| 27 | Novel classical post-processing for quantum key distribution-based quantum private query. Quantum Information Processing, 2016, 15, 3833-3840. | 2.2 | 39 |
| 28 | Centrally controlled quantum teleportation. Optics Communications, 2010, 283, 4802-4809. | 2.1 | 38 |
| 29 | Cryptanalysis of secret sharing with a single d-level quantum system. Quantum Information Processing, 2018, 17, 1. | 2.2 | 38 |
| 30 | A blind quantum signature protocol using the GHZ states. Science China: Physics, Mechanics and Astronomy, 2013, 56, 1636-1641. | 5.1 | 35 |
| 31 | A novel quantum blockchain scheme base on quantum entanglement and DPoS. Quantum Information Processing, 2020, 19, 1. | 2.2 | 33 |
| 32 | Robust QKD-based private database queries based on alternative sequences of single-qubit measurements. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1. | 5.1 | 31 |
| 33 | Quantum homomorphic encryption scheme with flexible number of evaluator based on (k,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T | 6.9 | 31 |
| 34 | Efficient quantum private comparison protocol based on the entanglement swapping between four-qubit cluster state and extended Bell state. Quantum Information Processing, 2019, 18, 1. | 2.2 | 28 |
| 35 | Quantum Network Communication With a Novel Discrete-Time Quantum Walk. IEEE Access, 2019, 7, 13634-13642. | 4.2 | 28 |
| 36 | Controlled-Joint Remote Preparation of an Arbitrary Two-Qubit State via Non-maximally Entangled Channel. International Journal of Theoretical Physics, 2012, 51, 3575-3586. | 1.2 | 27 |

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|---|---------|----|-----------|
| 37 | Hierarchical quantum information splitting of an arbitrary two-qubit state via the cluster state. Quantum Information Processing, 2014, 13, 43-57. | 2.2 | 27 |
| 38 | Quantum network communication: a discrete-time quantum-walk approach. Science China Information Sciences, 2018, 61, 1. | 4.3 | 27 |
| 39 | Quantum network coding for multi-unicast problem based on 2D and 3D cluster states. Science China Information Sciences, 2016, 59, 1. | 4.3 | 25 |
| 40 | A secure rational quantum state sharing protocol. Science China Information Sciences, 2018, 61, 1. | 4.3 | 22 |
| 41 | Expansible quantum secret sharing network. Quantum Information Processing, 2013, 12, 2877-2888. | 2.2 | 21 |
| 42 | Comment on "General relation between the transformation operator and an invariant under stochastic local operations and classical communication in quantum teleportation" Physical Review A, 2009, 79, . | 2.5 | 20 |
| 43 | A class of protocols for quantum private comparison based on the symmetry of states. Quantum Information Processing, 2014, 13, 85-100. | 2.2 | 20 |
| 44 | The Quantum Steganography Protocol via Quantum Noisy Channels. International Journal of Theoretical Physics, 2015, 54, 2505-2515. | 1.2 | 20 |
| 45 | Practical Quantum Private Database Queries Based on Passive Round-Robin Differential Phase-shift Quantum Key Distribution. Scientific Reports, 2016, 6, 31738. | 3.3 | 20 |
| 46 | Asymmetric controlled bidirectional remote preparation of two- and three-qubit equatorial state. Scientific Reports, 2019, 9, 2081. | 3.3 | 20 |
| 47 | QUANTUM CIRCUITS FOR PROBABILISTIC ENTANGLEMENT TELEPORTATION VIA A PARTIALLY ENTANGLED PAIR. International Journal of Quantum Information, 2007, 05, 717-728. | 1.1 | 19 |
| 48 | Cryptanalysis on the improved multiparty quantum secret sharing protocol based on the GHZ state. Physica Scripta, 2012, 86, 055002. | 2.5 | 19 |
| 49 | New quantum key agreement protocols based on cluster states. Quantum Information Processing, 2019, 18, 1. | 2.2 | 19 |
| 50 | Reducing the communication complexity of quantum private database queries by subtle classical post-processing with relaxed quantum ability. Computers and Security, 2019, 81, 15-24. | 6.0 | 18 |
| 51 | Information leakage in three-party simultaneous quantum secure direct communication with EPR pairs. Optics Communications, 2011, 284, 1719-1720. | 2.1 | 17 |
| 52 | Quantum secret sharing for general access structures based on multiparticle entanglements. Quantum Information Processing, 2014, 13, 429-443. | 2.2 | 17 |
| 53 | Multi-party blind quantum computation protocol with mutual authentication in network. Science China Information Sciences, 2021, 64, 1. | 4.3 | 17 |
| 54 | High-efficiency quantum steganography based on the tensor product of Bell states. Science China: Physics, Mechanics and Astronomy, 2013, 56, 1745-1754. | 5.1 | 16 |

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|---|---------|-----|-----------|
| 55 | Quantum state secure transmission in network communications. Information Sciences, 2014, 276, 363-376. | 6.9 | 16 |
| 56 | Novel Criteria for Deterministic Remote State Preparation via the Entangled Six-Qubit State. Entropy, 2016, 18, 267. | 2.2 | 16 |
| 57 | Improving the efficiency of quantum hash function by dense coding of coin operators in discrete-time quantum walk. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1. | 5.1 | 16 |
| 58 | Asymmetric Controlled Bidirectional Remote Preparation of Single- and Three-Qubit Equatorial State in Noisy Environment. IEEE Access, 2019, 7, 2811-2822. | 4.2 | 16 |
| 59 | A multimode quantum image representation and its encryption scheme. Quantum Information Processing, 2021, 20, 1. | 2.2 | 16 |
| 60 | Schemes for remotely preparing an arbitrary four-qubit $$chi $$ Ï‡ -state. Quantum Information Processing, 2014, 13, 1951-1965. | 2.2 | 15 |
| 61 | CRYPTANALYSIS OF THE QUANTUM STATE SHARING PROTOCOL USING FOUR SETS OF W-CLASS STATES. International Journal of Quantum Information, 2013, 11, 1350010. | 1.1 | 14 |
| 62 | CRYPTANALYSIS AND IMPROVEMENT OF THE SECURE QUANTUM SEALED-BID AUCTION WITH POSTCONFIRMATION. International Journal of Quantum Information, 2011, 09, 1383-1392. | 1.1 | 12 |
| 63 | N-to-M JOINT REMOTE STATE PREPARATION OF 2-LEVEL STATES. International Journal of Quantum Information, 2012, 10, 1250006. | 1.1 | 12 |
| 64 | A new quantum sealed-bid auction protocol with secret order in post-confirmation. Quantum Information Processing, 2015, 14, 3899-3911. | 2.2 | 12 |
| 65 | A new kind of flexible quantum teleportation of an arbitrary multi-qubit state by multi-walker quantum walks. Quantum Information Processing, 2019, 18, 1. | 2.2 | 12 |
| 66 | Quantum network coding without loss of information. Quantum Information Processing, 2021, 20, 1. | 2.2 | 12 |
| 67 | Comment on â€œHigh-dimensional deterministic multiparty quantum secret sharing without unitary operationsâ€. Quantum Information Processing, 2013, 12, 785-792. | 2.2 | 11 |
| 68 | Deterministic Joint Remote Preparation of an Arbitrary Two-Qubit State Using the Cluster State. Communications in Theoretical Physics, 2013, 59, 568-572. | 2.5 | 11 |
| 69 | A kind of universal quantum secret sharing protocol. Scientific Reports, 2017, 7, 39845. | 3.3 | 11 |
| 70 | A quantum image dual-scrambling encryption scheme based on random permutation. Science China Information Sciences, 2019, 62, 1. | 4.3 | 11 |
| 71 | Efficient quantum state transmission via perfect quantum network coding. Science China Information Sciences, 2019, 62, 1. | 4.3 | 11 |
| 72 | An efficient semi-quantum private comparison without pre-shared keys. Quantum Information Processing, 2021, 20, 1. | 2.2 | 11 |

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| 73 | A NOVEL QUANTUM STEGANOGRAPHY PROTOCOL BASED ON PROBABILITY MEASUREMENTS. International Journal of Quantum Information, 2013, 11, 1350068. | 1.1 | 9 |
| 74 | Steganalysis and improvement of a quantum steganography protocol via a GHZ4state. Chinese Physics B, 2013, 22, 060307. | 1.4 | 9 |
| 75 | Rational protocol of quantum secure multi-party computation. Quantum Information Processing, 2018, 17, 1. | 2.2 | 9 |
| 76 | W-state-based Semi-quantum Private Comparison. International Journal of Theoretical Physics, 2022, 61, 1. | 1.2 | 9 |
| 77 | Quantum Teleportation and State Sharing via a Generalized Seven-Qubit Brown State. International Journal of Theoretical Physics, 2013, 52, 3413-3431. | 1.2 | 8 |
| 78 | A Novel Quantum Covert Channel Protocol Based on Any Quantum Secure Direct Communication Scheme. Communications in Theoretical Physics, 2013, 59, 547-553. | 2.5 | 8 |
| 79 | Two Quantum Direct Communication Protocols Based on Quantum Search Algorithm. International Journal of Theoretical Physics, 2015, 54, 2436-2445. | 1.2 | 8 |
| 80 | A universal protocol for controlled bidirectional quantum state transmission. Quantum Information Processing, 2019, 18, 1. | 2.2 | 8 |
| 81 | Efficient entanglement channel construction schemes for a theoretical quantum network model with d-level system. Quantum Information Processing, 2012, 11, 1715-1739. | 2.2 | 7 |
| 82 | Attack on the Improved Quantum Blind Signature Protocol. International Journal of Theoretical Physics, 2013, 52, 331-335. | 1.2 | 7 |
| 83 | Quantum state sharing of arbitrary known multi-qubit and multi-qudit states. International Journal of Quantum Information, 2014, 12, 1450014. | 1.1 | 7 |
| 84 | Quantum Private Query With Perfect Performance Universally Applicable Against Collective-Noise. IEEE Access, 2019, 7, 29313-29319. | 4.2 | 7 |
| 85 | Efficient quantum private comparison protocol utilizing single photons and rotational encryption. Chinese Physics B, 2022, 31, 060307. | 1.4 | 7 |
| 86 | Schemes for Remotely Preparing a Six-Particle Entangled Cluster-Type State. International Journal of Theoretical Physics, 2013, 52, 968-979. | 1.2 | 6 |
| 87 | Multi-party quantum state sharing of an arbitrary multi-qubit state via $$chi $$ Ï‡ -type entangled states. Quantum Information Processing, 2014, 13, 2081-2098. | 2.2 | 6 |
| 88 | Cyclic preparation of two-qubit state in two noisy environments. Quantum Information Processing, 2022, 21, 1. | 2.2 | 6 |
| 89 | Fault tolerant deterministic secure quantum communication using logical Bell states against collective noise. Chinese Physics B, 2015, 24, 040304. | 1.4 | 5 |
| 90 | Secure quantum network coding based on quantum homomorphic message authentication. Quantum Information Processing, 2019, 18, 1. | 2.2 | 5 |

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| 91 | The Power of Qutrit Logic for Quantum Computation. International Journal of Theoretical Physics, 2013, 52, 2959-2965. | 1.2 | 4 |
| 92 | Quantum state representation based on combinatorial Laplacian matrix of star-relevant graph. Quantum Information Processing, 2015, 14, 4691-4713. | 2.2 | 4 |
| 93 | A secure crossing two qubits protocol based on quantum homomorphic encryption. Quantum Science and Technology, 2022, 7, 025027. | 5.8 | 4 |
| 94 | Splitting an Arbitrary Three-Qubit State via a Five-Qubit Cluster State and a Bell State. Entropy, 2022, 24, 381. | 2.2 | 4 |
| 95 | Asymmetric Quantum Information Splitting of an Arbitrary N-qubit State via GHZ-like State and Bell States. International Journal of Theoretical Physics, 2014, 53, 1848-1861. | 1.2 | 3 |
| 96 | An Improved Quantum Information Hiding Protocol Based on Entanglement Swapping of Ï‡-type Quantum States. Communications in Theoretical Physics, 2016, 65, 705-710. | 2.5 | 3 |
| 97 | An attempt at universal quantum secure multi-party computation with graph state. Physica Scripta, 2020, 95, 055106. | 2.5 | 3 |
| 98 | Quantum multicast communication over the butterfly network. Chinese Physics B, 0, , . | 1.4 | 3 |
| 99 | High dimensional quantum network coding based on prediction mechanism over the butterfly network. Quantum Science and Technology, 0, , . | 5.8 | 3 |
| 100 | A rational quantum state sharing protocol with semi-off-line dealer. Chinese Physics B, 2022, 31, 050309. | 1.4 | 3 |
| 101 | High-efficiency quantum image steganography protocol based on double-layer matrix coding. Quantum Information Processing, 2022, 21, . | 2.2 | 3 |
| 102 | Probabilistic teleportation of a two-particle entangled state via a partially entangled pair. Journal of China Universities of Posts and Telecommunications, 2006, 13, 39-42. | 0.8 | 2 |
| 103 | Deterministic Clone of an Unknown N-Qubit Entangled State with Assistance. International Journal of Theoretical Physics, 2010, 49, 2704-2712. | 1.2 | 2 |
| 104 | Scheme for Cloning a Three-Particle GHZ Class State with Assistance. Communications in Theoretical Physics, 2011, 55, 771-774. | 2.5 | 2 |
| 105 | A novel quantum information hiding protocol based on entanglement swapping of high-level Bell states. Chinese Physics B, 2015, 24, 050306. | 1.4 | 2 |
| 106 | Secure Multiparty Quantum Summation Based on d-Level Single Particles. Lecture Notes in Computer Science, 2018, , 680-690. | 1.3 | 2 |
| 107 | Searching for optimal quantum secret sharing scheme based on local distinguishability. Quantum Information Processing, 2020, 19, 1. | 2.2 | 2 |
| 108 | Efficient quantum private comparison protocol based on one direction discrete quantum walks on the circle. Chinese Physics B, 2022, 31, 050308. | 1.4 | 2 |

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| 109 | Teleportation of an unknown two-particle entangled state via an asymmetric three-particle entanglement state. Journal of China Universities of Posts and Telecommunications, 2008, 15, 102-105. | 0.8 | 1 |
| 110 | Faithful Transfer Arbitrary Pure States with Mixed Resources. International Journal of Theoretical Physics, 2013, 52, 3032-3044. | 1.2 | 1 |
| 111 | The solvability of quantum k-pair network in a measurement-based way. Scientific Reports, 2017, 7, 16775. | 3.3 | 1 |
| 112 | Controlled Bidirectional Remote Preparation of Single- and Two-Qubit State. Lecture Notes in Computer Science, 2018, , 541-553. | 1.3 | 1 |
| 113 | An Efficient Semi-Quantum Private Comparison Protocol Based on Entanglement Swapping of Four-Particle Cluster State and Bell State. International Journal of Theoretical Physics, 2022, 61, 1. | 1.2 | 1 |
| 114 | Random quantum evolution. Quantum Information Processing, 2013, 12, 3353-3367. | 2.2 | 0 |
| 115 | The rational approximations of the unitary groups. Quantum Information Processing, 2013, 12, 3149-3166. | 2.2 | 0 |
| 116 | Quantum Message Distribution. Communications in Theoretical Physics, 2013, 59, 37-42. | 2.5 | 0 |
| 117 | Hat problem: a new strategy based on quantum stabilizer codes. Quantum Information Processing, 2022, 21, 1. | 2.2 | 0 |