

Xiu-Bo Chen

List of Publications by Year in descending order

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117
papers

2,857
citations

147801

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119
all docs

119
docs citations

119
times ranked

784
citing authors

#	ARTICLE	IF	CITATIONS
1	A rational quantum state sharing protocol with semi-off-line dealer. Chinese Physics B, 2022, 31, 050309.	1.4	3
2	Cyclic preparation of two-qubit state in two noisy environments. Quantum Information Processing, 2022, 21, 1.	2.2	6
3	W-state-based Semi-quantum Private Comparison. International Journal of Theoretical Physics, 2022, 61, 1.	1.2	9
4	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
5	A secure crossing two qubits protocol based on quantum homomorphic encryption. Quantum Science and Technology, 2022, 7, 025027.	5.8	4
6	Splitting an Arbitrary Three-Qubit State via a Five-Qubit Cluster State and a Bell State. Entropy, 2022, 24, 381.	2.2	4
7	Efficient quantum private comparison protocol based on one direction discrete quantum walks on the circle. Chinese Physics B, 2022, 31, 050308.	1.4	2
8	Hat problem: a new strategy based on quantum stabilizer codes. Quantum Information Processing, 2022, 21, 1.	2.2	0
9	Efficient quantum private comparison protocol utilizing single photons and rotational encryption. Chinese Physics B, 2022, 31, 060307.	1.4	7
10	High-efficiency quantum image steganography protocol based on double-layer matrix coding. Quantum Information Processing, 2022, 21, .	2.2	3
11	An efficient anti-quantum lattice-based blind signature for blockchain-enabled systems. Information Sciences, 2021, 546, 253-264.	6.9	47
12	Quantum network coding without loss of information. Quantum Information Processing, 2021, 20, 1.	2.2	12
13	Multi-party blind quantum computation protocol with mutual authentication in network. Science China Information Sciences, 2021, 64, 1.	4.3	17
14	A multimode quantum image representation and its encryption scheme. Quantum Information Processing, 2021, 20, 1.	2.2	16
15	An efficient semi-quantum private comparison without pre-shared keys. Quantum Information Processing, 2021, 20, 1.	2.2	11
16	Searching for optimal quantum secret sharing scheme based on local distinguishability. Quantum Information Processing, 2020, 19, 1.	2.2	2
17	A novel quantum blockchain scheme base on quantum entanglement and DPoS. Quantum Information Processing, 2020, 19, 1.	2.2	33
18	An attempt at universal quantum secure multi-party computation with graph state. Physica Scripta, 2020, 95, 055106.	2.5	3

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19	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
20	A universal protocol for controlled bidirectional quantum state transmission. Quantum Information Processing, 2019, 18, 1.	2.2	8
21	A quantum image dual-scrambling encryption scheme based on random permutation. Science China Information Sciences, 2019, 62, 1.	4.3	11
22	Quantum homomorphic encryption scheme with flexible number of evaluator based on (k, T) ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 To	6.9	31
23	Quantum Private Query With Perfect Performance Universally Applicable Against Collective-Noise. IEEE Access, 2019, 7, 29313-29319.	4.2	7
24	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
25	New quantum key agreement protocols based on cluster states. Quantum Information Processing, 2019, 18, 1.	2.2	19
26	Asymmetric controlled bidirectional remote preparation of two- and three-qubit equatorial state. Scientific Reports, 2019, 9, 2081.	3.3	20
27	Efficient quantum state transmission via perfect quantum network coding. Science China Information Sciences, 2019, 62, 1.	4.3	11
28	Asymmetric Controlled Bidirectional Remote Preparation of Single- and Three-Qubit Equatorial State in Noisy Environment. IEEE Access, 2019, 7, 2811-2822.	4.2	16
29	Secure quantum network coding based on quantum homomorphic message authentication. Quantum Information Processing, 2019, 18, 1.	2.2	5
30	Quantum Network Communication With a Novel Discrete-Time Quantum Walk. IEEE Access, 2019, 7, 13634-13642.	4.2	28
31	A New Lattice-Based Signature Scheme in Post-Quantum Blockchain Network. IEEE Access, 2019, 7, 2026-2033.	4.2	61
32	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
33	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
34	A Secure Cryptocurrency Scheme Based on Post-Quantum Blockchain. IEEE Access, 2018, 6, 27205-27213.	4.2	121
35	A secure rational quantum state sharing protocol. Science China Information Sciences, 2018, 61, 1.	4.3	22
36	Quantum network communication: a discrete-time quantum-walk approach. Science China Information Sciences, 2018, 61, 1.	4.3	27

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37	Controlled Bidirectional Remote Preparation of Single- and Two-Qubit State. Lecture Notes in Computer Science, 2018, , 541-553.	1.3	1
38	Secure Multiparty Quantum Summation Based on d-Level Single Particles. Lecture Notes in Computer Science, 2018, , 680-690.	1.3	2
39	Rational protocol of quantum secure multi-party computation. Quantum Information Processing, 2018, 17, 1.	2.2	9
40	Cryptanalysis of secret sharing with a single d-level quantum system. Quantum Information Processing, 2018, 17, 1.	2.2	38
41	A kind of universal quantum secret sharing protocol. Scientific Reports, 2017, 7, 39845.	3.3	11
42	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
43	Controlled bidirectional remote preparation of three-qubit state. Quantum Information Processing, 2017, 16, 1.	2.2	47
44	The solvability of quantum k-pair network in a measurement-based way. Scientific Reports, 2017, 7, 16775.	3.3	1
45	Novel Criteria for Deterministic Remote State Preparation via the Entangled Six-Qubit State. Entropy, 2016, 18, 267.	2.2	16
46	Practical Quantum Private Database Queries Based on Passive Round-Robin Differential Phase-shift Quantum Key Distribution. Scientific Reports, 2016, 6, 31738.	3.3	20
47	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
48	An Improved Quantum Information Hiding Protocol Based on Entanglement Swapping of \mathbb{F}_2 -type Quantum States. Communications in Theoretical Physics, 2016, 65, 705-710.	2.5	3
49	Quantum network coding for multi-unicast problem based on 2D and 3D cluster states. Science China Information Sciences, 2016, 59, 1.	4.3	25
50	Novel classical post-processing for quantum key distribution-based quantum private query. Quantum Information Processing, 2016, 15, 3833-3840.	2.2	39
51	A novel protocol for multiparty quantum key management. Quantum Information Processing, 2015, 14, 2959-2980.	2.2	39
52	Two Quantum Direct Communication Protocols Based on Quantum Search Algorithm. International Journal of Theoretical Physics, 2015, 54, 2436-2445.	1.2	8
53	The Quantum Steganography Protocol via Quantum Noisy Channels. International Journal of Theoretical Physics, 2015, 54, 2505-2515.	1.2	20
54	Fault tolerant deterministic secure quantum communication using logical Bell states against collective noise. Chinese Physics B, 2015, 24, 040304.	1.4	5

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55	A novel quantum information hiding protocol based on entanglement swapping of high-level Bell states. Chinese Physics B, 2015, 24, 050306.	1.4	2
56	Network coding for quantum cooperative multicast. Quantum Information Processing, 2015, 14, 4297-4322.	2.2	39
57	Quantum state representation based on combinatorial Laplacian matrix of star-relevant graph. Quantum Information Processing, 2015, 14, 4691-4713.	2.2	4
58	A new quantum sealed-bid auction protocol with secret order in post-confirmation. Quantum Information Processing, 2015, 14, 3899-3911.	2.2	12
59	Perfect Quantum Network Coding Independent of Classical Network Solutions. IEEE Communications Letters, 2015, 19, 115-118.	4.1	43
60	Quantum state sharing of arbitrary known multi-qubit and multi-qudit states. International Journal of Quantum Information, 2014, 12, 1450014.	1.1	7
61	Quantum state secure transmission in network communications. Information Sciences, 2014, 276, 363-376.	6.9	16
62	Efficient and feasible quantum private comparison of equality against the collective amplitude damping noise. Quantum Information Processing, 2014, 13, 101-112.	2.2	49
63	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
64	Quantum secret sharing for general access structures based on multiparticle entanglements. Quantum Information Processing, 2014, 13, 429-443.	2.2	17
65	Schemes for remotely preparing an arbitrary four-qubit χ -state. Quantum Information Processing, 2014, 13, 1951-1965.	2.2	15
66	Multi-party quantum state sharing of an arbitrary multi-qubit state via χ -type entangled states. Quantum Information Processing, 2014, 13, 2081-2098.	2.2	6
67	Joint Remote Preparation of an Arbitrary Two-Qubit State in Noisy Environments. International Journal of Theoretical Physics, 2014, 53, 2236-2245.	1.2	46
68	A class of protocols for quantum private comparison based on the symmetry of states. Quantum Information Processing, 2014, 13, 85-100.	2.2	20
69	Hierarchical quantum information splitting of an arbitrary two-qubit state via the cluster state. Quantum Information Processing, 2014, 13, 43-57.	2.2	27
70	Random quantum evolution. Quantum Information Processing, 2013, 12, 3353-3367.	2.2	0
71	The rational approximations of the unitary groups. Quantum Information Processing, 2013, 12, 3149-3166.	2.2	0
72	Expansible quantum secret sharing network. Quantum Information Processing, 2013, 12, 2877-2888.	2.2	21

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73	The Power of Qutrit Logic for Quantum Computation. International Journal of Theoretical Physics, 2013, 52, 2959-2965.	1.2	4
74	Faithful Transfer Arbitrary Pure States with Mixed Resources. International Journal of Theoretical Physics, 2013, 52, 3032-3044.	1.2	1
75	A blind quantum signature protocol using the GHZ states. Science China: Physics, Mechanics and Astronomy, 2013, 56, 1636-1641.	5.1	35
76	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
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	Schemes for Remotely Preparing a Six-Particle Entangled Cluster-Type State. International Journal of Theoretical Physics, 2013, 52, 968-979.	1.2	6
80	Attack on the Improved Quantum Blind Signature Protocol. International Journal of Theoretical Physics, 2013, 52, 331-335.	1.2	7
81	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
82	Comment on "High-dimensional deterministic multiparty quantum secret sharing without unitary operations". Quantum Information Processing, 2013, 12, 785-792.	2.2	11
83	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
84	A NOVEL QUANTUM STEGANOGRAPHY PROTOCOL BASED ON PROBABILITY MEASUREMENTS. International Journal of Quantum Information, 2013, 11, 1350068.	1.1	9
85	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
86	Steganalysis and improvement of a quantum steganography protocol via a GHZ state. Chinese Physics B, 2013, 22, 060307.	1.4	9
87	Quantum Message Distribution. Communications in Theoretical Physics, 2013, 59, 37-42.	2.5	0
88	N-to-M JOINT REMOTE STATE PREPARATION OF 2-LEVEL STATES. International Journal of Quantum Information, 2012, 10, 1250006.	1.1	12
89	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
90	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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91	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
92	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
93	Cryptanalysis on the improved multiparty quantum secret sharing protocol based on the GHZ state. Physica Scripta, 2012, 86, 055002.	2.5	19
94	Experimental architecture of joint remote state preparation. Quantum Information Processing, 2012, 11, 751-767.	2.2	48
95	Remote preparation of a four-particle entangled cluster-type state. Optics Communications, 2011, 284, 4088-4093.	2.1	44
96	Information leakage in three-party simultaneous quantum secure direct communication with EPR pairs. Optics Communications, 2011, 284, 1719-1720.	2.1	17
97	Quantum steganography with large payload based on entanglement swapping of β -type entangled states. Optics Communications, 2011, 284, 2075-2082.	2.1	39
98	Scheme for Cloning a Three-Particle GHZ Class State with Assistance. Communications in Theoretical Physics, 2011, 55, 771-774.	2.5	2
99	CRYPTANALYSIS AND IMPROVEMENT OF THE SECURE QUANTUM SEALED-BID AUCTION WITH POSTCONFIRMATION. International Journal of Quantum Information, 2011, 09, 1383-1392.	1.1	12
100	Centrally controlled quantum teleportation. Optics Communications, 2010, 283, 4802-4809.	2.1	38
101	Deterministic Clone of an Unknown N-Qubit Entangled State with Assistance. International Journal of Theoretical Physics, 2010, 49, 2704-2712.	1.2	2
102	An Efficient Protocol for the Secure Multi-party Quantum Summation. International Journal of Theoretical Physics, 2010, 49, 2793-2804.	1.2	72
103	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
104	Probabilistic quantum network coding of -qudit states over the butterfly network. Optics Communications, 2010, 283, 497-501.	2.1	52
105	Novel quantum steganography with large payload. Optics Communications, 2010, 283, 4782-4786.	2.1	64
106	Joint remote preparation of an arbitrary three-qubit state. Optics Communications, 2010, 283, 4796-4801.	2.1	121
107	Multiparty quantum secret sharing based on Bell measurement. Optics Communications, 2009, 282, 3647-3651.	2.1	79
108	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

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109	Quantum circuits for controlled teleportation of two-particle entanglement via a W state. Optics Communications, 2008, 281, 2331-2335.	2.1	45
110	An efficient and secure multiparty quantum secret sharing scheme based on single photons. Optics Communications, 2008, 281, 6130-6134.	2.1	92
111	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
112	CONTROLLED QUANTUM SECURE DIRECT COMMUNICATION WITH W STATE. International Journal of Quantum Information, 2008, 06, 899-906.	1.1	83
113	CONTROLLED QUANTUM SECURE DIRECT COMMUNICATION WITH QUANTUM ENCRYPTION. International Journal of Quantum Information, 2008, 06, 543-551.	1.1	70
114	QUANTUM CIRCUITS FOR PROBABILISTIC ENTANGLEMENT TELEPORTATION VIA A PARTIALLY ENTANGLED PAIR. International Journal of Quantum Information, 2007, 05, 717-728.	1.1	19
115	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
116	Quantum multicast communication over the butterfly network. Chinese Physics B, 0, , .	1.4	3
117	High dimensional quantum network coding based on prediction mechanism over the butterfly network. Quantum Science and Technology, 0, , .	5.8	3