

# Bao-Cang Ren

## List of Publications by Year in descending order

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30  
papers

1,602  
citations

471509

17  
h-index

454955

30  
g-index

30  
all docs

30  
docs citations

30  
times ranked

370  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum hyperentanglement and its applications in quantum information processing. Science Bulletin, 2017, 62, 46-68.	9.0	195
2	Hyperentanglement concentration for two-photon four-qubit systems with linear optics. Physical Review A, 2013, 88, .	2.5	168
3	Complete hyperentangled-Bell-state analysis for photon systems assisted by quantum-dot spins in optical microcavities. Optics Express, 2012, 20, 24664.	3.4	153
4	Two-step hyperentanglement purification with the quantum-state-joining method. Physical Review A, 2014, 90, .	2.5	143
5	Hyper-parallel photonic quantum computation with coupled quantum dots. Scientific Reports, 2015, 4, 4623.	3.3	140
6	Hyperentanglement purification and concentration assisted by diamond NV centers inside photonic crystal cavities. Laser Physics Letters, 2013, 10, 115201.	1.4	110
7	Universal hyperparallel hybrid photonic quantum gates with dipole-induced transparency in the weak-coupling regime. Physical Review A, 2015, 91, .	2.5	107
8	General hyperentanglement concentration for photon systems assisted by quantum-dot spins inside optical microcavities. Optics Express, 2014, 22, 6547.	3.4	96
9	Error-detected generation and complete analysis of hyperentangled Bell states for photons assisted by quantum-dot spins in double-sided optical microcavities. Optics Express, 2016, 24, 28444.	3.4	73
10	Photonic spatial Bell-state analysis for robust quantum secure direct communication using quantum dot-cavity systems. European Physical Journal D, 2013, 67, 1.	1.3	70
11	Robust hyperparallel photonic quantum entangling gate with cavity QED. Optics Express, 2017, 25, 10863.	3.4	54
12	Hyperentanglement concentration of nonlocal two-photon six-qubit systems with linear optics. Annals of Physics, 2017, 385, 86-94.	2.8	35
13	Highly efficient hyperentanglement concentration with two steps assisted by quantum swap gates. Scientific Reports, 2015, 5, 16444.	3.3	32
14	Geometric measure of quantum discord for a two-parameter class of states in a qubit-qutrit system under various dissipative channels. Quantum Information Processing, 2013, 12, 1109-1124.	2.2	28
15	Complete analysis of hyperentangled Bell states assisted with auxiliary hyperentanglement. Optics Express, 2019, 27, 8994.	3.4	27
16	Three-Photon Polarization-Spatial Hyperparallel Quantum Fredkin Gate Assisted by Diamond Nitrogen Vacancy Center in Optical Cavity. Annalen Der Physik, 2018, 530, 1800043.	2.4	23
17	Efficient quantum secure direct communication with complete Bell-state measurement. Quantum Engineering, 2021, 3, e83.	2.5	19
18	General hyperentanglement concentration for polarization-spatial-time-bin multi-photon systems with linear optics. Frontiers of Physics, 2018, 13, 1.	5.0	17

#	ARTICLE	IF	CITATIONS
19	Faithful Entanglement Sharing for Quantum Communication Against Collective Noise. International Journal of Theoretical Physics, 2012, 51, 2346-2352.	1.2	16
20	High-efficiency multipartite entanglement purification of electron-spin states with charge detection. Quantum Information Processing, 2013, 12, 855-876.	2.2	15
21	Efficient quantum key distribution against collective noise using polarization and transverse spatial mode of photons. Optics Express, 2020, 28, 4611.	3.4	15
22	The Linear Optical Unambiguous Discrimination of Hyperentangled Bell States Assisted by Time Bin. Annalen Der Physik, 2019, 531, 1900201.	2.4	11
23	Hyperentanglement-assisted hyperdistillation for hyper-encoding photon system. Frontiers of Physics, 2022, 17, 1.	5.0	11
24	Correlation dynamics of a two-qubit system in a Bell-diagonal state under non-identical local noises. Quantum Information Processing, 2014, 13, 1175-1189.	2.2	8
25	Hyperentanglement concentration for polarizationâ€“spatialâ€“time-bin hyperentangled photon systems with linear optics. Quantum Information Processing, 2017, 16, 1.	2.2	8
26	General Quantum Entanglement Purification Protocol using a Controlledâ€“Phaseâ€“Flip Gate. Annalen Der Physik, 2020, 532, 2000011.	2.4	7
27	Imperfect-interaction-free entanglement purification on stationary systems for solid quantum repeaters. Optics Express, 2020, 28, 18693.	3.4	7
28	Complete Deterministic Analyzer for Multi-Electron Greenbergerâ€“Horneâ€“Zeilinger States Assisted by Double-Side Optical Microcavities. International Journal of Theoretical Physics, 2013, 52, 4045-4054.	1.2	6
29	Optimal multipartite entanglement concentration of electron-spin states based on charge detection and projection measurements. Quantum Information Processing, 2014, 13, 825-838.	2.2	5
30	Complete state analysis for four-qubit systems with optical property of quantum dots inside one-side optical microcavities. Quantum Information Processing, 2014, 13, 355-369.	2.2	3