

# Rubens Ramos

## List of Publications by Year in descending order

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73  
papers

400  
citations

933264

10  
h-index

996849

15  
g-index

75  
all docs

75  
docs citations

75  
times ranked

248  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical Solution of the Current-Voltage Characteristics of Circuits With Power-Law Dependence of the Current on the Applied Voltage Using the Lambert-Tsallis $W_q$ Function. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 769-773.	2.2	9
2	Enhancing eavesdropping detection in quantum key distribution using disentropy measure of randomness. Quantum Information Processing, 2022, 21, 1.	1.0	10
3	Analytical solutions of cubic and quintic polynomials in micro and nanoelectronics using the Lambert-Tsallis $W_q$ function. Journal of Computational Electronics, 2022, 21, 396-400.	1.3	9
4	The $R_{\hat{q}}$ function and its applications: disentropy, image processing and the $\hat{q}$ -diode. European Physical Journal Plus, 2022, 137, 1.	1.2	1
5	Analytical Solution of the Space Charge Limited Current Using Lambert-Tsallis $W_q$ Function. IEEE Transactions on Electron Devices, 2022, 69, 5787-5791.	1.6	2
6	Applications of the Lambert-Tsallis $W_q$ function in quantum photonic Gaussian boson sampling. Quantum Information Processing, 2022, 21, .	1.0	3
7	Estimation of the Randomness of Continuous and Discrete Signals Using the Disentropy of the Autocorrelation. SN Computer Science, 2021, 2, 1.	2.3	9
8	Approaching Single-Photon Pulses with Weak Coherent States and Nonlinear Phase Modulation. , 2021, , .		0
9	A Proposal for Single-Photon Detection in Millimeter-Wave and THz Regions. , 2021, , .		0
10	The Lambert-Kaniadakis $W$ function. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126175.	0.9	7
11	Remotely Gated InGaAs Single-Photon Detector at 1550 nm. IEEE Photonics Technology Letters, 2020, 32, 129-131.	1.3	1
12	The $R_{q,Q}$ function and the $q$ -Diode. Physica A: Statistical Mechanics and Its Applications, 2020, 556, 124851.	1.2	4
13	Multiphoton pulses and homodyne tomography attack in quantum-chaotic key distribution. Optical and Quantum Electronics, 2020, 52, 1.	1.5	0
14	Calculation of the disentropy of the Wigner function using the Lambert-Tsallis $W_q$ function with non-integer $q$ values. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2035.	0.9	4
15	Radial basis function network using Lambert-Tsallis $W_q$ function. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2244.	1.2	7
16	The Lambert-Tsallis $W_q$ function. Physica A: Statistical Mechanics and Its Applications, 2019, 525, 164-170.	1.2	24
17	Optical quantum bit string comparator. Optical and Quantum Electronics, 2019, 51, 1.	1.5	4
18	Disentropy of the Wigner function. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2244.	0.9	12

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19	Quantum-chaotic cryptography. Quantum Information Processing, 2018, 17, 1.	1.0	6
20	Quantum-chaotic key distribution in optical networks: from secrecy to implementation with logistic map. Quantum Information Processing, 2018, 17, 1.	1.0	12
21	Authenticated B92 QKD protocol employing synchronized optical chaotic systems. Optical and Quantum Electronics, 2016, 48, 1.	1.5	7
22	Double quantum well triple barrier structures: analytical and numerical results. Canadian Journal of Physics, 2016, 94, 1180-1188.	0.4	4
23	Quantum secure direct communication of digital and analog signals using continuum coherent states. Quantum Information Processing, 2016, 15, 4747-4758.	1.0	22
24	On the role of the four-qubit state in two-qubit gate teleportation. Quantum Information Processing, 2016, 15, 2125-2135.	1.0	0
25	Two-layer quantum key distribution. Quantum Information Processing, 2015, 14, 2111-2124.	1.0	15
26	On the role of the basis of measurement in quantum gate teleportation. Quantum Information Processing, 2015, 14, 2323-2343.	1.0	1
27	 $\langle \Psi_{AB}   \rho_{AB}   \Psi_{AB} \rangle$ $\langle \Psi_{AB}   \rho_{AB}   \Psi_{AB} \rangle$ $\langle \Psi_{AB}   \rho_{AB}   \Psi_{AB} \rangle$ $\langle \Psi_{AB}   \rho_{AB}   \Psi_{AB} \rangle$ $\langle \Psi_{AB}   \rho_{AB}   \Psi_{AB} \rangle$	0.9	1
28	Quantum Random Number Generator Using Only One Single-Photon Detector. IEEE Photonics Technology Letters, 2014, 26, 851-853.	1.3	11
29	Riemannian quantum circuit. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1346-1349.	0.9	7
30	Quantum communication with photon-added coherent states. Quantum Information Processing, 2013, 12, 537-547.	1.0	20
31	Setups for harmonics generation using optical modulators. Microwave and Optical Technology Letters, 2012, 54, 519-521.	0.9	0
32	Entanglement measure for pure six-qubit quantum states. Quantum Information Processing, 2012, 11, 255-267.	1.0	3
33	An optical scheme for quantum multi-service network. Quantum Information and Computation, 2012, 12, 620-629.	0.1	2
34	Spectral method for characterization of avalanche photodiode working as single-photon detector. Optics Letters, 2011, 36, 3446.	1.7	11
35	Schemes for teleportation of quantum gates. Quantum Information Processing, 2011, 10, 203-212.	1.0	1
36	Quantum protocols for zero-knowledge systems. Quantum Information Processing, 2010, 9, 37-46.	1.0	5

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37	Residual entanglement with negativity for pure four-qubit quantum states. Quantum Information Processing, 2010, 9, 497-508.	1.0	17
38	Analysis of Heralded Single-Photon Source Using Four-Wave Mixing in Optical Fibers via Wigner Function and its Use in Quantum Key Distribution. IEEE Journal of Quantum Electronics, 2010, 46, 721-727.	1.0	6
39	Spectral analysis of the current of avalanche photodiodes working in the Geiger mode. , 2009, , .		0
40	Zero knowledge protocol in a radio over fiber network. , 2009, , .		0
41	Multiplayer quantum games and its application as access controller in architecture of quantum computers. Quantum Information Processing, 2008, 7, 125-135.	1.0	10
42	Experimental implementation of B92 quantum key distribution protocol. Microwave and Optical Technology Letters, 2008, 50, 236-241.	0.9	3
43	Quantum bit string commitment protocol using polarization of mesoscopic coherent states. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1190-1193.	0.9	2
44	Smart generation of a tripartite GHZ-type state for coherent state qubit. Optics Communications, 2008, 281, 2705-2709.	1.0	3
45	On the quantum polarization and entanglement of superpositions of two two-mode coherent states. Optics Communications, 2008, 281, 6034-6039.	1.0	2
46	Quantum Communication With Polarization-Encoded Qubit Using Quantum Error Correction. IEEE Journal of Quantum Electronics, 2008, 44, 113-118.	1.0	4
47	Quantum information technology with Sagnac interferometer: interaction-free measurement, quantum key distribution and quantum secret sharing. Journal of Modern Optics, 2008, 55, 1231-1241.	0.6	7
48	Optical setups for probabilistic bipartite and tripartite entanglement generation and quantum teleportation in optical networks. Journal of Modern Optics, 2008, 55, 1279-1289.	0.6	1
49	Multiple-photon number resolving detector using fibre ring and single-photon detector. Journal of Modern Optics, 2007, 54, 1187-1202.	0.6	9
50	Linear optical setups for active and passive quantum error correction in polarization encoded qubits. Journal of Modern Optics, 2007, 54, 1467-1479.	0.6	4
51	Implementing a non-local xor function with quantum communication. Journal of Modern Optics, 2006, 53, 1765-1775.	0.6	1
52	Passive quantum error correction with linear optics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 352, 206-209.	0.9	23
53	Implementations of quantum and classical gates with linear optical devices and photon number quantum non-demolition measurement for polarization encoded qubits. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 592-596.	0.9	4
54	Loss of entanglement after propagation in a quantum noisy channel modeled by a canonical unitary operation in two qubits. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 360, 251-255.	0.9	5

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55	Quantum noisy channel modeled by canonical unitary operation in two qubits. , 2006, , .		0
56	Quantum search algorithm using quantum bit string comparator. , 2006, , .		5
57	Optical receiver for instrumentation and communication. Microwave and Optical Technology Letters, 2005, 45, 415-419.	0.9	1
58	Dynamic of the degree of polarization in a depolarizing channel: Theory and experimental results. Microwave and Optical Technology Letters, 2005, 47, 497-500.	0.9	6
59	Mixture of two-mode unpolarized and pure quantum light states: quantum polarization and application in quantum communication. Journal of Modern Optics, 2005, 52, 2093-2103.	0.6	8
60	Theory of single-photon detectors employing smart strategies of detection. Journal of Modern Optics, 2005, 52, 2613-2623.	0.6	0
61	Software for Analysis of Eavesdropping Strategies in Photonic Quantum Cryptographic Systems. Journal of Optical Communications, 2004, 25, .	4.0	1
62	Quantum teleportation with number states and beam splitters. Journal of Modern Optics, 2004, 51, 525-536.	0.6	1
63	Single-photon detectors for quantum key distribution in 1550 nm: Simulations and experimental results. Microwave and Optical Technology Letters, 2003, 37, 136-139.	0.9	4
64	Optical random-bit generator employing quantum and chaotic dynamics. Microwave and Optical Technology Letters, 2003, 39, 338-342.	0.9	1
65	Numerical algorithms for use in quantum information. Journal of Computational Physics, 2003, 192, 95-104.	1.9	9
66	Calculation of the Quantum Entanglement Measure of Bipartite States, Based on Relative Entropy, Using Genetic Algorithms. Journal of Computational Physics, 2002, 175, 576-583.	1.9	13
67	Simulations of continuum coherent states and its use in quantum cryptographic systems. Journal of Modern Optics, 2001, 48, 989-1003.	0.6	2
68	Using Chaotic Dynamics in Quantum Cryptographic Systems: Chaotic Cryptography and Repeaters. Journal of Optical Communications, 2001, 22, .	4.0	4
69	Channel Equalisation for Polarimetric Quantum Cryptographic Systems. Journal of Optical Communications, 2001, 22, .	4.0	2
70	Synchronization of Nonlinear Fiber Ring Resonators using Fuzzy Controllers. Journal of Optical Communications, 2001, 22, .	4.0	0
71	A setup for quantum cryptography using an all-optical chaotically produced key. Microwave and Optical Technology Letters, 2000, 24, 79-81.	0.9	0
72	Controlling a quantum communication system with synchronized nonlinear fiber ring resonators. Microwave and Optical Technology Letters, 2000, 27, 302-304.	0.9	4

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73	Controlling chaos in a nonlinear fiber ring resonator using fuzzy logic. Microwave and Optical Technology Letters, 1999, 21, 378-380.	0.9	3