

Aldo Delgado

List of Publications by Year in descending order

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78
papers

1,483
citations

394286

19
h-index

360920

35
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79
all docs

79
docs citations

79
times ranked

1125
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenging local realism with human choices. <i>Nature</i> , 2018, 557, 212-216.	13.7	136
2	Entanglement sharing in the two-atom Tavis-Cummings model. <i>Physical Review A</i> , 2003, 68, .	1.0	110
3	Optimal conclusive teleportation of quantum states. <i>Physical Review A</i> , 2003, 68, .	1.0	86
4	Experimental quantum tomography of photonic qudits via mutually unbiased basis. <i>Optics Express</i> , 2011, 19, 3542.	1.7	82
5	Efficient bipartite quantum state purification in arbitrary dimensional Hilbert spaces. <i>Journal of Physics A</i> , 2001, 34, 8821-8833.	1.6	63
6	Five Measurement Bases Determine Pure Quantum States on Any Dimension. <i>Physical Review Letters</i> , 2015, 115, 090401.	2.9	58
7	Hybrid photonic entanglement: Realization, characterization, and applications. <i>Physical Review A</i> , 2009, 80, .	1.0	48
8	Measurement-driven quantum evolution. <i>Physical Review A</i> , 2006, 73, .	1.0	44
9	Stabilizing Distinguishable Qubits against Spontaneous Decay by Detected-Jump Correcting Quantum Codes. <i>Physical Review Letters</i> , 2001, 86, 4402-4405.	2.9	43
10	Experimental Minimum-Error Quantum-State Discrimination in High Dimensions. <i>Physical Review Letters</i> , 2017, 118, 100501.	2.9	43
11	Multi-core fiber integrated multi-port beam splitters for quantum information processing. <i>Optica</i> , 2020, 7, 542.	4.8	38
12	Minimum tomography of two entangled qutrits using local measurements of one-qutrit symmetric informationally complete positive operator-valued measure. <i>Physical Review A</i> , 2013, 88, .	1.0	35
13	Device-Independent Certification of a Nonprojective Qubit Measurement. <i>Physical Review Letters</i> , 2016, 117, 260401.	2.9	35
14	Sagnac Effect of Gödel's Universe. <i>General Relativity and Gravitation</i> , 2004, 36, 2289-2316.	0.7	33
15	Control of quantum interference in the quantum eraser. <i>New Journal of Physics</i> , 2009, 11, 073035.	1.2	23
16	A New Class of Designs Which Protect against Quantum Jumps. <i>Designs, Codes, and Cryptography</i> , 2003, 29, 51-70.	1.0	21
17	Quantum tomography via equidistant states. <i>Physical Review A</i> , 2010, 82, .	1.0	21
18	Quantum gyroscopes and Gödel's universe: entanglement opens a new testing ground for cosmology. <i>New Journal of Physics</i> , 2002, 4, 37-37.	1.2	20

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19	Entanglement swapping via quantum state discrimination. <i>Physical Review A</i> , 2005, 71, .	1.0	20
20	Maximum-confidence discrimination among symmetric qudit states. <i>Physical Review A</i> , 2011, 84, .	1.0	20
21	Adaptive quantum tomography in high dimensions. <i>Physical Review A</i> , 2018, 98, .	1.0	20
22	Measurement of spatial qubits. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 185501.	0.6	19
23	Quantum localized states in photonic flat-band lattices. <i>Physical Review A</i> , 2017, 96, .	1.0	19
24	Entanglement concentration for non-maximally entangled states of qudits. <i>Optics Communications</i> , 2009, 282, 1482-1487.	1.0	18
25	Experimental multiparty sequential state discrimination. <i>Physical Review A</i> , 2016, 94, .	1.0	18
26	Unambiguous modification of nonorthogonal single- and two-photon polarization states. <i>Physical Review A</i> , 2009, 79, .	1.0	17
27	Experimental scheme for unambiguous discrimination of linearly independent symmetric states. <i>Physical Review A</i> , 2007, 76, .	1.0	16
28	Quantum teleportation via maximum-confidence quantum measurements. <i>Physical Review A</i> , 2012, 85, .	1.0	16
29	Analytical model for polarization-dependent light propagation in waveguide arrays and applications. <i>Physical Review A</i> , 2014, 90, .	1.0	16
30	Antisymmetric multi-partite quantum states and their applications. <i>Fortschritte Der Physik</i> , 2003, 51, 172-178.	1.5	15
31	Probabilistic cloning of equidistant states. <i>Physical Review A</i> , 2010, 82, .	1.0	15
32	Probabilistic cloning of three symmetric states. <i>Physical Review A</i> , 2010, 82, .	1.0	15
33	Detected-jump-error-correcting quantum codes, quantum error designs, and quantum computation. <i>Physical Review A</i> , 2003, 68, .	1.0	14
34	Macroscopic field superpositions from collective interactions. <i>Physical Review A</i> , 1998, 58, 655-662.	1.0	13
35	Decoherence in a double-slit quantum eraser. <i>Physical Review A</i> , 2010, 81, .	1.0	13
36	Quantum tomography via unambiguous state discrimination. <i>Physical Review A</i> , 2012, 86, .	1.0	13

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37	Deterministic and probabilistic entanglement swapping of nonmaximally entangled states assisted by optimal quantum state discrimination. <i>Physical Review A</i> , 2014, 89, .	1.0	13
38	Hong-Ou-Mandel interferometer with cavities: Theory. <i>Physical Review A</i> , 2006, 73, .	1.0	12
39	Experimental quantum tomography assisted by multiply symmetric states in higher dimensions. <i>Physical Review A</i> , 2019, 99, .	1.0	12
40	Stochastic optimization on complex variables and pure-state quantum tomography. <i>Scientific Reports</i> , 2019, 9, 16143.	1.6	11
41	Estimation of pure quantum states in high dimension at the limit of quantum accuracy through complex optimization and statistical inference. <i>Scientific Reports</i> , 2020, 10, 12781.	1.6	11
42	Quantum information and entanglement transfer for qutrits. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 370, 22-27.	0.9	10
43	Nonlocal optimal probabilistic cloning of qubit states via twin photons. <i>Physical Review A</i> , 2012, 86, .	1.0	10
44	Measure of the tunnelling time of a single photon through a Fabry-Pérot cavity. <i>Optics Communications</i> , 2007, 272, 161-167.	1.0	9
45	Interference and complementarity for two-photon hybrid entangled states. <i>Physical Review A</i> , 2010, 82, .	1.0	9
46	Estimation of Pure States Using Three Measurement Bases. <i>Physical Review Applied</i> , 2020, 14, .	1.5	9
47	Observation of dipolar transport in one-dimensional photonic lattices. <i>Science Bulletin</i> , 2017, 62, 339-344.	4.3	8
48	Enhanced discrimination of high-dimensional quantum states by concatenated optimal measurement strategies. <i>Quantum Science and Technology</i> , 2022, 7, 015017.	2.6	8
49	Semi-empirical quantum optics for mid-infrared molecular nanophotonics. <i>Journal of Chemical Physics</i> , 2022, 156, 124110.	1.2	8
50	Generating mixtures of spatial qubits. <i>Optics Communications</i> , 2008, 281, 5058-5062.	1.0	7
51	Conclusive modification of the overlap between two quantum states. <i>Physical Review A</i> , 2010, 81, .	1.0	7
52	Constructing symmetric informationally complete positive-operator-valued measures in Bloch space. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 325-329.	0.9	7
53	Parametric separation of symmetric pure quantum states. <i>Physical Review A</i> , 2016, 93, .	1.0	7
54	Improved estimation accuracy of the 5-bases-based tomographic method. <i>Physical Review A</i> , 2019, 100, .	1.0	7

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55	Weak gravitational field effects on large-scale optical interferometric Bell tests. <i>Classical and Quantum Gravity</i> , 2020, 37, 195001.	1.5	7
56	Error avoiding quantum codes and dynamical stabilization of Grover's algorithm. <i>New Journal of Physics</i> , 2000, 2, 19-19.	1.2	6
57	Quantum Error Correction and Quantum Computation with Detected-jump Correcting Quantum Codes. <i>Fortschritte Der Physik</i> , 2001, 49, 901.	1.5	6
58	Driving a known state by a discrete sequence of direct measurements. <i>Physical Review A</i> , 2007, 75, .	1.0	6
59	Quantum evolution by discrete measurements. <i>Journal of Physics: Conference Series</i> , 2007, 84, 012017.	0.3	6
60	Telecloning of qudits via partially entangled states. <i>Quantum Information Processing</i> , 2016, 15, 3443-3458.	1.0	6
61	Quantum Discord, Thermal Discord, and Entropy Generation in the Minimum Error Discrimination Strategy. <i>Entropy</i> , 2019, 21, 263.	1.1	6
62	Comments on minimal interactions in quantum mechanics. <i>Journal of Physics A</i> , 1996, 29, 4005-4018.	1.6	5
63	Scalable estimation of pure multi-qubit states. <i>Npj Quantum Information</i> , 2022, 8, .	2.8	5
64	Optimal entanglement concentration for photonic qutrits encoded in path variables. <i>Physical Review A</i> , 2013, 87, .	1.0	4
65	Quantum teleportation via quantum channels with non-maximal Schmidt rank. <i>Physica Scripta</i> , 2013, T153, 014058.	1.2	4
66	Mutual Information and Quantum Discord in Quantum State Discrimination with a Fixed Rate of Inconclusive Outcomes. <i>Entropy</i> , 2021, 23, 73.	1.1	4
67	Estimation of Quantum Channels with Finite Resources. <i>Quantum Information Processing</i> , 2002, 1, 303-326.	1.0	3
68	State determination for composite systems of two spatial qubits. <i>Journal of Physics: Conference Series</i> , 2007, 84, 012012.	0.3	3
69	SHARING OF D-DIMENSIONAL QUANTUM STATES. <i>International Journal of Quantum Information</i> , 2012, 10, 1250003.	0.6	3
70	Nonlinear localized modes in dipolar Bose-Einstein condensates in two-dimensional optical lattices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 3185-3191.	0.9	3
71	Reply to "Feasibility of neural network approach in spectral mixture analysis of reflectance spectra". <i>International Journal of Remote Sensing</i> , 2009, 30, 4905-4907.	1.3	2
72	Atom-field entanglement at the collapse region. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 355, 7-11.	0.9	1

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73	Sagnac Effect in Gödel's Universe. , 2006, , .		1
74	Quantum Information Processing and Error Correction with Jump Codes. , 2005, , 14-27.		0
75	Characterization of fiducial states in prime dimensions via mutually unbiased bases. Physica Scripta, 2013, T153, 014031.	1.2	0
76	Quantum interferometry with distorted wave packets. Journal of Modern Optics, 2017, 64, 2228-2237.	0.6	0
77	ENTANGLEMENT, KINETIC ENERGY AND THE QUANTUM FICTITIOUS POTENTIAL. , 2003, , .		0
78	Controlling the transverse correlation in quasi-phase matching parametric down-conversion. Optics Communications, 2021, 507, 127669.	1.0	0