Yong Siah Teo

List of Publications by Year
in descending order

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46 papers	510 citations	687363 13 h-index	752698 20 g-index
47 all docs	47 docs citations	47 times ranked	397 citing authors

#	Article	IF	Citations
1	Quantum-State Reconstruction by Maximizing Likelihood and Entropy. Physical Review Letters, 2011, 107, 020404.	7.8	85
2	Adaptive Compressive Tomography with No aÂpriori Information. Physical Review Letters, 2019, 122, 100404.	7.8	36
3	Incomplete quantum state estimation: A comprehensive study. Physical Review A, 2012, 85, .	2.5	29
4	Resource-Efficient Topological Fault-Tolerant Quantum Computation with Hybrid Entanglement of Light. Physical Review Letters, 2020, 125, 060501.	7.8	23
5	Adaptive schemes for incomplete quantum process tomography. Physical Review A, 2011, 84, .	2.5	22
6	Objective compressive quantum process tomography. Physical Review A, 2020, 101, .	2.5	22
7	Universal Compressive Characterization of Quantum Dynamics. Physical Review Letters, 2020, 124, 210401.	7.8	19
8	Experimental Detection of Entanglement with Optimal-Witness Families. Physical Review Letters, 2014, 113, 170402.	7.8	18
9	Two-qubit symmetric informationally complete positive-operator-valued measures. Physical Review A, 2010, 82, .	2.5	17
10	Adaptive compressive tomography: A numerical study. Physical Review A, 2019, 100, .	2.5	16
11	Evading Vacuum Noise: Wigner Projections or Husimi Samples?. Physical Review Letters, 2016, 117, 070801.	7.8	15
12	Minimal tomography with entanglement witnesses. Physical Review A, 2010, 81, .	2.5	14
13	Optical resolution from Fisher information. European Physical Journal Plus, 2016, 131, 1.	2.6	14
14	Surmounting intrinsic quantum-measurement uncertainties in Gaussian-state tomography with quadrature squeezing. Scientific Reports, 2015, 5, 12289.	3.3	13
15	Universal compressive tomography in the time-frequency domain. Optica, 2021, 8, 1296.	9.3	12
16	All-Photonic Architecture for Scalable Quantum Computing with Greenberger-Horne-Zeilinger States. PRX Quantum, 2022, 3, .	9.2	11
17	Bayesian recursive data-pattern tomography. Physical Review A, 2015, 92, .	2.5	10
18	Determining which quantum measurement performs better for state estimation. Physical Review A, 2015, 92, .	2.5	10

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19	Benchmarking quantum tomography completeness and fidelity with machine learning. New Journal of Physics, 2021, 23, 103021.	2.9	10
20	Informationally incomplete quantum tomography. Quantum Measurements and Quantum Metrology, 2013, 1, 57-83.	3.3	9
21	Compressively Certifying Quantum Measurements. PRX Quantum, 2020, 1, .	9.2	8
22	Superiority of heterodyning over homodyning: An assessment with quadrature moments. Physical Review A, 2017, 95, .	2.5	7
23	Highly photon-loss-tolerant quantum computing using hybrid qubits. Physical Review A, 2021, 103, .	2.5	7
24	Bayesian error regions in quantum estimation I: analytical reasonings. New Journal of Physics, 2018, 20, 093009.	2.9	6
25	Verification of state and entanglement with incomplete tomography. New Journal of Physics, 2012, 14, 105020.	2.9	5
26	Controllable generation of mixed two-photon states. New Journal of Physics, 2013, 15, 063011.	2.9	5
27	Efficient Bayesian credible-region certification for quantum-state tomography. Physical Review A, 2019, 100, .	2.5	5
28	Modern compressive tomography for quantum information science. International Journal of Quantum Information, 2021, 19, .	1.1	5
29	Compressed sensing of twisted photons. Optics Express, 2019, 27, 17426.	3.4	4
30	Product measurements and fully symmetric measurements in qubit-pair tomography: A numerical study. Optics Communications, 2010, 283, 724-729.	2.1	3
31	Coarse-grained quantum state estimation for noisy measurements. Physical Review A, 2013, 88, .	2.5	3
32	Fast universal performance certification of measurement schemes for quantum tomography. Physical Review A, 2016, 94, .	2.5	3
33	Bayesian error regions in quantum estimation II: region accuracy and adaptive methods. New Journal of Physics, 2018, 20, 093010.	2.9	3
34	On the Prospects of Multiport Devices for Photon-Number-Resolving Detection. Quantum Reports, 2019, 1, 162-180.	1.3	3
35	Progress toward optimal quantum tomography with unbalanced homodyning. Physical Review A, 2017, 96, .	2.5	2
36	Probing Bayesian Credible Regions Intrinsically: A Feasible Error Certification for Physical Systems. Physical Review Letters, 2019, 123, 040602.	7.8	2

#	Article	IF	Citations
37	Least-bias state estimation with incomplete unbiased measurements. Physical Review A, 2015, 92, .	2.5	1
38	Crystallizing highly-likely subspaces that contain an unknown quantum state of light. Scientific Reports, 2016, 6, 38123.	3.3	1
39	Extracting the physical sector of quantum states. New Journal of Physics, 2017, 19, 093008.	2.9	1
40	Highly accurate Gaussian process tomography with geometrical sets of coherent states. New Journal of Physics, 2021, 23, 063024.	2.9	1
41	Emulation of quantum measurements with mixtures of coherent states. Physical Review A, 2022, 105, .	2.5	1
42	Joint measurement of complementary observables in moment tomography. International Journal of Quantum Information, 2017, 15, 1740002.	1.1	0
43	Randomized Compressive State Tomography in Time and Frequency Using a Quantum Pulse Gate. , 2021, , .		0
44	Randomized Compressive State Tomography with No A-priori Information Using a Quantum Pulse Gate in Time and Frequency. , 2021, , .		0
45	Overcoming Vacuum Noise: The Unforeseen Benefits of Quantum Heterodyne Detection. , 2016, , .		0
46	Time-Frequency Randomized Compressive Tomography Using a Quantum Pulse Gate. , 2021, , .		0