

# Mankei Tsang

## List of Publications by Year in descending order

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93  
papers

2,988  
citations

147801

31  
h-index

168389

53  
g-index

95  
all docs

95  
docs citations

95  
times ranked

1732  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized conditional expectations for quantum retrodiction and smoothing. <i>Physical Review A</i> , 2022, 105, .	2.5	5
2	Quantum limit to subdiffraction incoherent optical imaging. II. A parametric-submodel approach. <i>Physical Review A</i> , 2021, 104, .	2.5	8
3	Quantum Semiparametric Estimation. <i>Physical Review X</i> , 2020, 10, .	8.9	38
4	Physics-inspired forms of the Bayesian Cram�r-Rao bound. <i>Physical Review A</i> , 2020, 102, .	2.5	3
5	Resolving starlight: a quantum perspective. <i>Contemporary Physics</i> , 2019, 60, 279-298.	1.8	70
6	Quantum limit to subdiffraction incoherent optical imaging. <i>Physical Review A</i> , 2019, 99, .	2.5	68
7	Semiparametric estimation for incoherent optical imaging. <i>Physical Review Research</i> , 2019, 1, .	3.6	20
8	Resurgence of Rayleigh�m's curse in the presence of partial coherence: comment. <i>Optica</i> , 2019, 6, 400.	9.3	30
9	Subdiffraction incoherent optical imaging via spatial-mode demultiplexing: Semiclassical treatment. <i>Physical Review A</i> , 2018, 97, .	2.5	32
10	Conservative classical and quantum resolution limits for incoherent imaging. <i>Journal of Modern Optics</i> , 2018, 65, 1385-1391.	1.3	19
11	Quantum limits on the time-bandwidth product of an optical resonator. <i>Optics Letters</i> , 2018, 43, 150.	3.3	9
12	Integrated nonlinear optics: lithium niobate-on-insulator waveguides and resonators. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
13	Quantum limit for two-dimensional resolution of two incoherent optical point sources. <i>Physical Review A</i> , 2017, 95, .	2.5	58
14	Subdiffraction incoherent optical imaging via spatial-mode demultiplexing. <i>New Journal of Physics</i> , 2017, 19, 023054.	2.9	71
15	Fisher information for far-field linear optical superresolution via homodyne or heterodyne detection in a higher-order local oscillator mode. <i>Physical Review A</i> , 2017, 96, .	2.5	43
16	Beating Rayleigh�m's criterion: Superresolution of thermal sources with linear optics. , 2017, , .		0
17	Quantum Weiss-Weinstein bounds for quantum metrology. <i>Quantum Science and Technology</i> , 2016, 1, 015002.	5.8	15
18	Fabrication and Characterization of Optical Devices on Lithium Niobate on Insulator Chips. <i>Procedia Engineering</i> , 2016, 140, 183-186.	1.2	10

#	ARTICLE	IF	CITATIONS
19	Quantum Theory of Superresolution for Two Incoherent Optical Point Sources. <i>Physical Review X</i> , 2016, 6, .	8.9	253
20	Interferometric superlocalization of two incoherent optical point sources. <i>Optics Express</i> , 2016, 24, 3684.	3.4	63
21	Spectrum analysis with quantum dynamical systems. <i>Physical Review A</i> , 2016, 93, .	2.5	23
22	Quantum information for semiclassical optics. , 2016, , .		11
23	Loss characterization of waveguides in lithium niobate on insulator. , 2016, , .		1
24	Far-Field Superresolution of Thermal Electromagnetic Sources at the Quantum Limit. <i>Physical Review Letters</i> , 2016, 117, 190801.	7.8	130
25	Rib Microring Resonators in Lithium Niobate on Insulator. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 573-576.	2.5	25
26	Quantum Limit for Two-Dimensional Resolution of Two Incoherent Optical Point Sources. , 2016, , .		1
27	Rayleigh's Criterion is Irrelevant to the Localization of Two Incoherent Optical Point Sources. , 2016, , .		0
28	Volterra filters for quantum estimation and detection. <i>Physical Review A</i> , 2015, 92, .	2.5	7
29	Quantum Bell-Ziv-Zakai Bounds and Heisenberg Limits for Waveform Estimation. <i>Physical Review X</i> , 2015, 5, .	8.9	48
30	Improved mirror position estimation using resonant quantum smoothing. <i>EPJ Quantum Technology</i> , 2015, 2, .	6.3	5
31	QUANTUM OPTIMALITY OF PHOTON COUNTING FOR TEMPERATURE MEASUREMENT OF THERMAL ASTRONOMICAL SOURCES. <i>Astrophysical Journal</i> , 2015, 808, 125.	4.5	8
32	Quantum limits to optical point-source localization. <i>Optica</i> , 2015, 2, 646.	9.3	51
33	Rib microring resonators in lithium niobate on insulator. , 2015, , .		1
34	Mismatched quantum filtering and entropic information. , 2014, , .		2
35	Optimal signal processing for continuous qubit readout. <i>Physical Review A</i> , 2014, 90, .	2.5	8
36	Optomechanics sets the beat. <i>Nature Physics</i> , 2014, 10, 245-246.	16.7	0

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37	Fabrication and characterization of microring resonators in titanium diffused lithium niobate. , 2014, , .		1
38	Optical microring resonators in lithium niobate for classical and quantum microwave photonics. , 2013, , .		1
39	Optomechanical parameter estimation. New Journal of Physics, 2013, 15, 103028.	2.9	15
40	Testing quantum mechanics: a statistical approach. Quantum Measurements and Quantum Metrology, 2013, 1, 84-109.	3.3	8
41	Quantum-Limited Mirror-Motion Estimation. Physical Review Letters, 2013, 111, 163602.	7.8	51
42	Quantum transition-edge detectors. Physical Review A, 2013, 88, .	2.5	34
43	Quantum metrology with open dynamical systems. New Journal of Physics, 2013, 15, 073005.	2.9	93
44	Ziv-Zakai Error Bounds for Quantum Parameter Estimation. Physical Review Letters, 2012, 108, 230401.	7.8	94
45	Evading Quantum Mechanics: Engineering a Classical Subsystem within a Quantum Environment. Physical Review X, 2012, 2, .	8.9	87
46	Fundamental quantum limits to waveform detection. Physical Review A, 2012, 86, .	2.5	31
47	Continuous Quantum Hypothesis Testing. Physical Review Letters, 2012, 108, 170502.	7.8	31
48	Cavity quantum electro-optics. II. Input-output relations between traveling optical and microwave fields. Physical Review A, 2011, 84, .	2.5	84
49	Phase and amplitude imaging from noisy images by Kalman filtering. Optics Express, 2011, 19, 2805.	3.4	50
50	Fundamental Quantum Limit to Waveform Estimation. Physical Review Letters, 2011, 106, 090401.	7.8	165
51	Quantum Nonlocality in Weak-Thermal-Light Interferometry. Physical Review Letters, 2011, 107, 270402.	7.8	38
52	Cavity Quantum Electro-Optic Transduction. , 2011, , .		0
53	Quantum Backaction Noise Cancellation for Linear Systems. , 2011, , .		1
54	Fundamental Quantum Limit to Waveform Estimation. , 2011, , .		2

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55	Optimal waveform estimation for classical and quantum systems via time-symmetric smoothing. II. Applications to atomic magnetometry and Hardy's paradox. <i>Physical Review A</i> , 2010, 81, .	2.5	35
56	Coherent Quantum-Noise Cancellation for Optomechanical Sensors. <i>Physical Review Letters</i> , 2010, 105, 123601.	7.8	145
57	Cavity quantum electro-optics. <i>Physical Review A</i> , 2010, 81, .	2.5	131
58	Time-Symmetric Quantum Smoothing: A General Theory of Optimal Quantum Sensing. , 2010, , .		0
59	Phase and Amplitude Imaging from Noisy Intensity Measurements using a Kalman Filter. , 2010, , .		1
60	Quantum Imaging beyond the Diffraction Limit by Optical Centroid Measurements. <i>Physical Review Letters</i> , 2009, 102, 253601.	7.8	101
61	Optimal waveform estimation for classical and quantum systems via time-symmetric smoothing. <i>Physical Review A</i> , 2009, 80, .	2.5	68
62	Time-Symmetric Quantum Theory of Smoothing. <i>Physical Review Letters</i> , 2009, 102, 250403.	7.8	96
63	Publisher's Note: Optimal waveform estimation for classical and quantum systems via time-symmetric smoothing [Phys. Rev. A80, 033840 (2009)]. <i>Physical Review A</i> , 2009, 80, .	2.5	3
64	Quantum theory of optical temporal phase and instantaneous frequency. II. Continuous-time limit and state-variable approach to phase-locked loop design. <i>Physical Review A</i> , 2009, 79, .	2.5	42
65	Quantum Theory of Optical Temporal Phase in the Continuous Time Limit. , 2009, , .		0
66	Quantum Optical Temporal Phase Estimation by Homodyne Phase-Locked Loops. , 2009, , .		1
67	Magnifying perfect lens and superlens design by coordinate transformation. <i>Physical Review B</i> , 2008, 77, .	3.2	132
68	Quantum theory of optical temporal phase and instantaneous frequency. <i>Physical Review A</i> , 2008, 78, .	2.5	24
69	Fundamental Quantum Limit to the Multiphoton Absorption Rate for Monochromatic Light. <i>Physical Review Letters</i> , 2008, 101, 033602.	7.8	11
70	Optical Hydrodynamics. , 2008, , .		0
71	Optical parametric generation in periodically poled KTiOPO4 via extended phase matching. <i>Applied Physics Letters</i> , 2007, 91, 131120.	3.3	5
72	Decoherence of quantum-enhanced timing accuracy. <i>Physical Review A</i> , 2007, 75, .	2.5	3

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73	Reflectionless evanescent-wave amplification by two dielectric planar waveguides: erratum. Optics Letters, 2007, 32, 86.	3.3	3
74	Theory of resonantly enhanced near-field imaging. Optics Express, 2007, 15, 11959.	3.4	18
75	Ultrafast Mirrorless Optical Parametric Oscillator in Periodically Poled KTiOPO <sub>4</sub> via Extended Phase Matching. , 2007, , .		0
76	Relationship between resolution enhancement and multiphoton absorption rate in quantum lithography. Physical Review A, 2007, 75, .	2.5	33
77	Reflectionless evanescent-wave amplification by two dielectric planar waveguides. Optics Letters, 2006, 31, 2741.	3.3	17
78	Spectral phase conjugation via extended phase matching. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 861.	2.1	3
79	Quantum Lithography Has a Reduced Multiphoton Absorption Rate. , 2006, , LWH3.		0
80	Quantum Temporal Correlations and Entanglement via Adiabatic Control of Vector Solitons. Physical Review Letters, 2006, 97, 023902.	7.8	11
81	Quantum temporal imaging. , 2006, , .		0
82	Propagation of temporal entanglement. Physical Review A, 2006, 73, .	2.5	20
83	Metaphoric optical computing for fluid dynamics. , 2005, , .		3
84	Nonlinear signal processing. , 2005, , .		0
85	Dynamics of filament formation in a Kerr medium. Physical Review A, 2005, 71, .	2.5	37
86	Spontaneous spectral phase conjugation for coincident frequency entanglement. Physical Review A, 2005, 71, .	2.5	10
87	Spectral phase conjugation by quasi-phase-matched three-wave mixing. Optics Communications, 2004, 242, 659-664.	2.1	4
88	Spectral phase conjugation with cross-phase modulation compensation. Optics Express, 2004, 12, 2207.	3.4	10
89	Spectral phase conjugation with cross-phase modulation compensation. , 2004, , .		0
90	Dispersion and nonlinearity compensation by spectral phase conjugation. Optics Letters, 2003, 28, 1558.	3.3	26

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91	Reverse propagation of femtosecond pulses in optical fibers. Optics Letters, 2003, 28, 1873.	3.3	61
92	Metaphoric optical computing. , 0, , .		0
93	Poisson Quantum Information. Quantum - the Open Journal for Quantum Science, 0, 5, 527.	0.0	9