

# Michael R Hush

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

456  
citations

687220

13  
h-index

794469

19  
g-index

21  
all docs

21  
docs citations

21  
times ranked

392  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin correlations as a probe of quantum synchronization in trapped-ion phonon lasers. <i>Physical Review A</i> , 2015, 91, .	1.0	95
2	Continuous measurement feedback control of a Bose-Einstein condensate using phase-contrast imaging. <i>Physical Review A</i> , 2009, 80, .	1.0	44
3	Sagnac Interferometry with a Single Atomic Clock. <i>Physical Review Letters</i> , 2015, 115, 163001.	2.9	42
4	Feedback control of an interacting Bose-Einstein condensate using phase-contrast imaging. <i>Physical Review A</i> , 2010, 82, .	1.0	36
5	Controlling spontaneous-emission noise in measurement-based feedback cooling of a Bose-Einstein condensate. <i>New Journal of Physics</i> , 2013, 15, 113060.	1.2	35
6	Analysis of the operation of gradient echo memories using a quantum input-output model. <i>New Journal of Physics</i> , 2013, 15, 085020.	1.2	25
7	Ignorance Is Bliss: General and Robust Cancellation of Decoherence via No-Knowledge Quantum Feedback. <i>Physical Review Letters</i> , 2014, 113, 020407.	2.9	24
8	Feedback Tracking Control of Non-Markovian Quantum Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2017, 25, 1552-1563.	3.2	22
9	Robustness of system-filter separation for the feedback control of a quantum harmonic oscillator undergoing continuous position measurement. <i>Physical Review A</i> , 2013, 87, .	1.0	17
10	Many-body out-of-equilibrium dynamics of hard-core lattice bosons with nonlocal loss. <i>Physical Review B</i> , 2014, 90, .	1.1	17
11	Cavity driven by a single photon: Conditional dynamics and nonlinear phase shift. <i>Physical Review A</i> , 2012, 86, .	1.0	15
12	Number-phase Wigner representation for efficient stochastic simulations. <i>Physical Review A</i> , 2010, 81, .	1.0	13
13	Coherently tracking the covariance matrix of an open quantum system. <i>Physical Review A</i> , 2015, 92, .	1.0	13
14	Generic map from non-Lindblad to Lindblad master equations. <i>Physical Review A</i> , 2015, 91, .	1.0	13
15	Quantum Oscillator Noise Spectroscopy via Displaced Cat States. <i>Physical Review Letters</i> , 2021, 126, 250506.	2.9	13
16	Scalable quantum field simulations of conditioned systems. <i>Physical Review A</i> , 2009, 80, .	1.0	11
17	Number-phase Wigner representation for scalable stochastic simulations of controlled quantum systems. <i>Physical Review A</i> , 2012, 85, .	1.0	9
18	Single photon production by rephased amplified spontaneous emission. <i>New Journal of Physics</i> , 2014, 16, 033042.	1.2	8

#	ARTICLE	IF	CITATIONS
19	Measurement-based generation of shaped single photons and coherent state superpositions in optical cavities. Physical Review A, 2017, 95, .	1.0	4
20	Number-phase Wigner representation for scalable stochastic simulations of controlled quantum systems. , 2011, , .		0
21	Covariance matrix tracking coherent observers for linear quantum stochastic systems. , 2015, , .		0