Michael J Martin

List of Publications by Year
in descending order

22 papers	2,414 citations	516710 16 h-index	794594 19 g-index
24 all docs	24 docs citations	24 times ranked	1895 citing authors

#	Article	IF	Citations
1	Asymptotic optimality of twist-untwist protocols for Heisenberg scaling in atom-based sensing. Physical Review Research, 2022, 4, .	3.6	6
2	Quantum optimal control of ten-level nuclear spin qudits in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Sr</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>87</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Review A, 2021, 104, .	2.5	13
3	Robust MÃ¸lmer-SÃ¸rensen gate for neutral atoms using rapid adiabatic Rydberg dressing. Physical Review A, 2020, 101, .	2.5	47
4	Demonstration of the Jaynes-Cummings ladder with Rydberg-dressed atoms. Physical Review A, 2017, 95, .	2.5	24
5	Realizing exactly solvableSU(N)magnets with thermal atoms. Physical Review A, 2016, 93, .	2.5	19
6	Ultrastable laser with average fractional frequency drift rate below 5 Ã— 10^â^'19/s. Optics Letters, 2014, 39, 5102.	3.3	56
7	Reduction of residual amplitude modulation to 1 Ã— 10^-6 for frequency modulation and laser stabilization. Optics Letters, 2014, 39, 1980.	3.3	125
8	A Quantum Many-Body Spin System in an Optical Lattice Clock. Science, 2013, 341, 632-636.	12.6	152
9	Crystalline coatings for ultra-low-noise optical cavities. , 2013, , .		0
10	Phase Stabilization of a Yb:fiber Frequency Comb via High-Bandwidth Transducers. , 2012, , .		0
11	Operating a ⁸⁷Sr optical lattice clock with high precision and at high density. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 416-425.	3.0	34
12	A sub-40-mHz-linewidth laser based on a silicon single-crystal optical cavity. Nature Photonics, 2012, 6, 687-692.	31.4	571
13	Comparison of Two Independent Sr Optical Clocks with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mo mathvariant="bold">Ã—</mml:mo><mml:msup><mml:mn>10</mml:mn><mml:mrow><mml:mo>â^'</mml:mo><mml:mn>17</mml:mn></mml:mrow></mml:msup></mml:math> at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mn>10</mml:mn><mml:mn>3</mml:mn></mml:msup><mml:mtext>â€‰</mml:mtext><mml:mi mathvariant="bold">s</mml:mi></mml:math>. Physical Review Letters, 2012, 109, 230801.	7.8	162
14	1.5 Octave Highly Coherent Fiber Frequency Comb. , 2011, , .		0
15	Ultrabroadband coherent supercontinuum frequency comb. Physical Review A, 2011, 84, .	2.5	64
16	Suppression of Collisional Shifts in a Strongly Interacting Lattice Clock. Science, 2011, 331, 1043-1046.	12.6	138
17	Precision measurement of fermionic collisions using an ⁸⁷Sr optical lattice clock with 1 Ã— 10⁻¹⁶ inaccuracy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 574-582.	3.0	9
18	Probing Interactions Between Ultracold Fermions. Science, 2009, 324, 360-363.	12.6	99

#	Article	IF	Citations
19	Testing ultrafast mode-locking at microhertz relative optical linewidth. Optics Express, 2009, 17, 558.	3.4	23
20	Optical frequency comb with submillihertz linewidth and more than 10ÂW average power. Nature Photonics, 2008, 2, 355-359.	31.4	233
21	Sr Lattice Clock at 1 Ã— 10 ^{â€“16} Fractional Uncertainty by Remote Optical Evaluation with a Ca Clock. Science, 2008, 319, 1805-1808.	12.6	500
22	The absolute frequency of the⁸⁷Sr optical clock transition. Metrologia, 2008, 45, 539-548.	1.2	139