

# Michael J Martin

## List of Publications by Year in descending order

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Version: 2024-02-01

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	A sub-40-mHz-linewidth laser based on a silicon single-crystal optical cavity. Nature Photonics, 2012, 6, 687-692.	31.4	571
2	Sr Lattice Clock at $1 \text{ \AA}^{-10}$ Fractional Uncertainty by Remote Optical Evaluation with a Ca Clock. Science, 2008, 319, 1805-1808.	12.6	500
3	Optical frequency comb with submillihertz linewidth and more than $10 \text{ \AA}^W$ average power. Nature Photonics, 2008, 2, 355-359.	31.4	233
4	Comparison of Two Independent Sr Optical Clocks with $1 \text{ \AA}^{-10}$ Fractional Uncertainty by Remote Optical Evaluation with a Ca Clock. Science, 2008, 319, 1805-1808.	7.8	162
5	A Quantum Many-Body Spin System in an Optical Lattice Clock. Science, 2013, 341, 632-636.	12.6	152
6	The absolute frequency of the $87$ Sr optical clock transition. Metrologia, 2008, 45, 539-548.	1.2	139
7	Suppression of Collisional Shifts in a Strongly Interacting Lattice Clock. Science, 2011, 331, 1043-1046.	12.6	138
8	Reduction of residual amplitude modulation to $1 \text{ \AA}^{-10^6}$ for frequency modulation and laser stabilization. Optics Letters, 2014, 39, 1980.	3.3	125
9	Probing Interactions Between Ultracold Fermions. Science, 2009, 324, 360-363.	12.6	99
10	Ultrabroadband coherent supercontinuum frequency comb. Physical Review A, 2011, 84, .	2.5	64
11	Ultrastable laser with average fractional frequency drift rate below $5 \text{ \AA}^{-10^19}$ /s. Optics Letters, 2014, 39, 5102.	3.3	56
12	Robust Mølmer-Sørensen gate for neutral atoms using rapid adiabatic Rydberg dressing. Physical Review A, 2020, 101, .	2.5	47
13	Operating a $87$ Sr 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
14	Demonstration of the Jaynes-Cummings ladder with Rydberg-dressed atoms. Physical Review A, 2017, 95, .	2.5	24
15	Testing ultrafast mode-locking at microhertz relative optical linewidth. Optics Express, 2009, 17, 558.	3.4	23
16	Realizing exactly solvable SU(N) magnets with thermal atoms. Physical Review A, 2016, 93, .	2.5	19
17	Quantum optimal control of ten-level nuclear spin qubits in $87$ Sr. Physical Review A, 2021, 104, .	2.5	13
18	Precision measurement of fermionic collisions using an $87$ Sr optical lattice clock with $1 \text{ \AA}^{-10}$ fractional uncertainty. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 574-582.	3.0	9

#	ARTICLE	IF	CITATIONS
19	Asymptotic optimality of twist-untwist protocols for Heisenberg scaling in atom-based sensing. Physical Review Research, 2022, 4, .	3.6	6
20	1.5 Octave Highly Coherent Fiber Frequency Comb. , 2011, , .		0
21	Phase Stabilization of a Yb:fiber Frequency Comb via High-Bandwidth Transducers. , 2012, , .		0
22	Crystalline coatings for ultra-low-noise optical cavities. , 2013, , .		0