

# Ke Deng

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

194  
citations

1163117

8  
h-index

1125743

13  
g-index

20  
all docs

20  
docs citations

20  
times ranked

174  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal-noise-limited higher-order mode locking of a reference cavity. <i>Optics Letters</i> , 2018, 43, 1690.	3.3	29
2	Efficient Raman sideband cooling of trapped ions to their motional ground state. <i>Physical Review A</i> , 2017, 96, .	2.5	21
3	Design of an optical reference cavity with low thermal noise limit and flexible thermal expansion properties. <i>European Physical Journal D</i> , 2013, 67, 1.	1.3	17
4	A modified model of helical resonator with predictable loaded resonant frequency and Q-factor. <i>Review of Scientific Instruments</i> , 2014, 85, 104706.	1.3	17
5	A long-term frequency stabilized deep ultraviolet laser for Mg <sup>+</sup> ions trapping experiments. <i>Review of Scientific Instruments</i> , 2013, 84, 123109.	1.3	16
6	Characterization of electrical noise limits in ultra-stable laser systems. <i>Review of Scientific Instruments</i> , 2016, 87, 123105.	1.3	14
7	Note: A high-frequency signal generator based on direct digital synthesizer and field-programmable gate array. <i>Review of Scientific Instruments</i> , 2017, 88, 096103.	1.3	14
8	Design verification of large time constant thermal shields for optical reference cavities. <i>Review of Scientific Instruments</i> , 2016, 87, 023104.	1.3	11
9	Direct Laser Cooling Al <sup>+</sup> Ion Optical Clocks. <i>Chinese Physics Letters</i> , 2017, 34, 050601.	3.3	8
10	Precision measurement of the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Mg} \langle \text{mml:mi} \rangle \langle \text{mml:none} \rangle / \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mprescripts} \rangle / \rangle \langle \text{mml:none} \rangle / \rangle \langle \text{mml:mn} \rangle 25 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ ground-state hyperfine constant. <i>Physical Review A</i> , 2017, 96, .	2.5	8
11	Investigation of experimental issues concerning successful operation of quantum-logic-based $\text{Al}^+$ ion optical clock. <i>Applied Physics B: Lasers and Optics</i> , 2020, 126, 1.	2.2	7
12	Design of blade-shaped-electrode linear ion traps with reduced anharmonic contributions. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	6
13	Precision measurement of the light shift of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Mg} \langle \text{mml:mi} \rangle \langle \text{mml:none} \rangle / \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mprescripts} \rangle / \rangle \langle \text{mml:none} \rangle / \rangle \langle \text{mml:mn} \rangle 25 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ ions. <i>Physical Review A</i> , 2018, 98, .	2.5	5
14	Ultraviolet laser spectroscopy of aluminum atoms in hollow-cathode lamp. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 225002.	1.5	5
15	Absolute frequency measurement of molecular iodine hyperfine transition at 534 nm. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 1816.	2.1	5
16	Measurement and suppression of magnetic field noise of trapped ion qubit. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2022, 55, 075001.	1.5	5
17	Recent progress on the $\text{Al}^+$ ion optical clock. <i>Journal of Physics: Conference Series</i> , 2016, 723, 012026.	0.4	4
18	A simple method for in situ measurement of vacuum window birefringence. <i>Review of Scientific Instruments</i> , 2019, 90, 113001.	1.3	2

#	ARTICLE	IF	CITATIONS
19	Design of an optical reference cavity with flexible thermal expansion tuning properties. , 2012, , .		0
20	In Situ Measurement of Vacuum Window Birefringence using $^{25}\text{Mg}^{+}$ Fluorescence. Journal of Visualized Experiments, 2020, , .	0.3	0