Tanja MehlstÃ¤ubler

List of Publications by Year
in descending order

25 papers	1,085 citations	567281 15 h-index	580821 25 g-index
25 all docs	25 docs citations	25 times ranked	968 citing authors

#	Article	IF	Citations
1	Combined atomic clock with blackbody-radiation-shift-induced instability below 10^{â^'19} under natural environment conditions. New Journal of Physics, 2021, 23, 023032.	2.9	5
2	Creation of double-well potentials in a surface-electrode trap towards a nanofriction model emulator. Quantum Science and Technology, 2021, 6, 024010.	5.8	2
3	Motional heating of spatially extended ion crystals. Quantum Science and Technology, 2021, 6, 034003.	5.8	9
4	Quantum nanofriction in trapped ion chains with a topological defect. Physical Review Research, 2021, 3, .	3.6	2
5	Sub-kelvin temperature management in ion traps for optical clocks. Review of Scientific Instruments, 2020, 91, 111301.	1.3	4
6	Coherent Excitation of the Highly Forbidden Electric Octupole Transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:msup><mml:mrow><mml:mi>Yb</mml:mi></mml:mrow><mml:n /><mml:none /><mml:mrow><mml:mn>172</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review Letters, 2020, 125, 163001.	7.8	9
7	Energy localization in an atomic chain with a topological soliton. Physical Review Research, 2020, 2, .	3.6	6
8	Towards a transportable aluminium ion quantum logic optical clock. Review of Scientific Instruments, 2019, 90, 053204.	1.3	42
9	Controlling systematic frequency uncertainties at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mn>10</mml:mn><mml:mrow><mml:mo>â^'</mml:mo><mn level in linear Coulomb crystals. Physical Review A, 2019, 99, .	2.8	42
10	Atomic clocks for geodesy. Reports on Progress in Physics, 2018, 81, 064401.	20.1	145
11	Nanofriction and motion of topological defects in self-organized ion Coulomb crystals. New Journal of Physics, 2018, 20, 123017.	2.9	6
12	Combined error signal in Ramsey spectroscopy of clock transitions. New Journal of Physics, 2018, 20, 123016.	2.9	16
13	Probing nanofriction and Aubry-type signatures in a finite self-organized system. Nature Communications, 2017, 8, 15364.	12.8	39
14	Evaluation of trap-induced systematic frequency shifts for a multi-ion optical clock at the 10^{â^'19}level. Journal of Physics: Conference Series, 2016, 723, 012027.	0.4	20
15	Precise determination of micromotion for trapped-ion optical clocks. Journal of Applied Physics, 2015, 118, .	2.5	85
16	Analysis of thermal radiation in ion traps for optical frequency standards. Metrologia, 2015, 52, 842-856.	1.2	46
17	Structural phase transitions and topological defects in ion Coulomb crystals. Physica B: Condensed Matter, 2015, 460, 114-118.	2.7	19
18	A high-precision segmented Paul trap with minimized micromotion for an optical multiple-ion clock. Applied Physics B: Lasers and Optics, 2014, 114, 231-241.	2.2	60

#	Article	IF	Citations
19	Simple vibration-insensitive cavity for laser stabilization at the 10âˆ'16 level. Applied Physics B: Lasers and Optics, 2014, 116, 203-210.	2.2	20
20	Topological defect formation and spontaneous symmetry breaking in ion Coulomb crystals. Nature Communications, 2013, 4, 2291.	12.8	220
21	Dynamics of topological defects in ion Coulomb crystals. New Journal of Physics, 2013, 15, 103013.	2.9	29
22	Linear Paul trap design for an optical clock with Coulomb crystals. Applied Physics B: Lasers and Optics, 2012, 107, 891-906.	2.2	63
23	Atomic Clocks with Suppressed Blackbody Radiation Shift. Physical Review Letters, 2011, 107, 030801.	7.8	39
24	Modelling three-dimensional-quench cooling for alkaline-earth atoms. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, S183-S189.	1.4	12
25	Doppler Cooling and Trapping on Forbidden Transitions. Physical Review Letters, 2001, 87, 123002.	7.8	145