Ming-Shien Chang

List of Publications by Year
in descending order

36	3,262	430874	361022
papers	citations	18 h-index	35 g-index

36	36	36	3043
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantum simulation of frustrated Ising spins with trapped ions. Nature, 2010, 465, 590-593.	27.8	642
2	Forces for Morphogenesis Investigated with Laser Microsurgery and Quantitative Modeling. Science, 2003, 300, 145-149.	12.6	469
3	Observation of Spinor Dynamics in Optically TrappedRb87Bose-Einstein Condensates. Physical Review Letters, 2004, 92, 140403.	7.8	371
4	Coherent spinor dynamics in a spin-1 BoseÂcondensate. Nature Physics, 2005, 1, 111-116.	16.7	338
5	Entanglement and Tunable Spin-Spin Couplings between Trapped Ions Using Multiple Transverse Modes. Physical Review Letters, 2009, 103, 120502.	7.8	248
6	Cavity QED with optically transported atoms. Physical Review A, 2004, 69, .	2.5	188
7	Coherent spin mixing dynamics in a spin-1 atomic condensate. Physical Review A, 2005, 72, .	2.5	163
8	Large-scale quantum computation in an anharmonic linear ion trap. Europhysics Letters, 2009, 86, 60004.	2.0	121
9	Dynamical Instability and Domain Formation in a Spin-1 Bose-Einstein Condensate. Physical Review Letters, 2005, 95, 180403.	7.8	103
10	Time-Resolved Luminescence Nanothermometry with Nitrogen-Vacancy Centers in Nanodiamonds. Nano Letters, 2015, 15, 3945-3952.	9.1	96
11	Quantum simulation of the transverse Ising model with trapped ions. New Journal of Physics, 2011, 13, 105003.	2.9	92
12	Quantum simulation and phase diagram of the transverse-field Ising model with three atomic spins. Physical Review B, 2010, 82, .	3.2	87
13	Femtosecond pump-probe study of molecular vibronic structures and dynamics of a cyanine dye in solution. Journal of Chemical Physics, 1999, 110, 12070-12081.	3.0	60
14	Magneto-optical trapping of cadmium. Physical Review A, 2007, 76, .	2.5	40
15	Gold/diamond nanohybrids for quantum sensing applications. EPJ Quantum Technology, 2015, 2, .	6.3	39
16	Cooperative single-photon subradiant states. Physical Review A, 2016, 94, .	2.5	31
17	Rotating Atomic Quantum Gases with Light-Induced Azimuthal Gauge Potentials and the Observation of the Hess-Fairbank Effect. Physical Review Letters, 2018, 121, 250401.	7.8	31
18	Pseudospin orders in the supersolid phases in binary Rydberg-dressed Bose-Einstein condensates. Physical Review A, 2013, 88, .	2.5	29

#	Article	IF	Citations
19	Subradiance dynamics in a singly excited chirally coupled atomic chain. Physical Review A, 2020, 101, .	2.5	17
20	Intraocular pressure assessment in both eyes of the same patient after laser in situ keratomileusis. Journal of Cataract and Refractive Surgery, 2009, 35, 76-82.	1.5	14
21	Retinal nerve fibre layer thickness and optic nerve head size measured in high myopes by optical coherence tomography. Australasian journal of optometry, The, 2013, 96, 373-378.	1.3	13
22	Cooperative light scattering from helical-phase-imprinted atomic rings. Scientific Reports, 2018, 8, 9570.	3.3	11
23	Cavity Optomechanical Sensing and Manipulation of an Atomic Persistent Current. Physical Review Letters, 2021, 127, 113601.	7.8	10
24	Effects of age and disc area on optical coherence tomography measurements and analysis of correlations between optic nerve head and retinal nerve fibre layer. Australasian journal of optometry, The, 2012, 95, 427-431.	1.3	9
25	Enhanced spectral profile in the study of Doppler-broadened Rydberg ensembles. Scientific Reports, 2017, 7, 9726.	3.3	8
26	Absolute frequency of cesium 6S_{1/2}â€“6D_{3/2} hyperfine transition with a precision to nuclear magnetic octupole interaction. Optics Letters, 2018, 43, 1954.	3.3	8
27	A simple recipe for rapid all-optical formation of spinor Boseâ€“Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 155302.	1.5	6
28	A methodology for solute transport in unsteady, nonuniform streamflow with subsurface interaction. Advances in Water Resources, 2005, 28, 871-883.	3.8	4
29	Radiation pressure on a biconcave human Red Blood Cell and the resulting deformation in a pair of parallel optical traps. Journal of Biophotonics, 2014, 7, 782-787.	2.3	4
30	Multilevel Optical Labeling by Spectral Luminescence Control in Nanodiamond Color Centers. ACS Applied Materials & Interfaces, 2020, 12, 49006-49011.	8.0	3
31	Accuracy of corneal flap thickness achieved by two different age MK-2000 microkeratomes. Eye, 2009, 23, 2200-2205.	2.1	2
32	An external cavity diode laser using a volume holographic grating. Optics and Laser Technology, 2012, 44, 2182-2185.	4.6	2
33	Commissioning of a UV/time-resolved-FTIR beamline at the Duke FEL laboratory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 483, 560-564.	1.6	1
34	Preparation of two-particle total-hyperfine-spin-singlet states via spin-changing dynamics. Physical Review A, 2012, 86, .	2.5	1
35	Optimization of a crossed optical dipole trap for loading and confining laser-cooled atoms. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 869.	2.1	1
36	All-Optical Atomic Bose-Einstein Condensates. , 2003, , .		0