

Darrick Chang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4993864/publications.pdf>

Version: 2024-02-01

23
papers

3,830
citations

361413

20
h-index

642732

23
g-index

23
all docs

23
docs citations

23
times ranked

3022
citing authors

#	ARTICLE	IF	CITATIONS
1	A single-photon transistor using nanoscale surface plasmons. <i>Nature Physics</i> , 2007, 3, 807-812.	16.7	1,074
2	Quantum nonlinear optics—photon by photon. <i>Nature Photonics</i> , 2014, 8, 685-694.	31.4	539
3	Atom–light interactions in photonic crystals. <i>Nature Communications</i> , 2014, 5, 3808.	12.8	361
4	Strong coupling of single emitters to surface plasmons. <i>Physical Review B</i> , 2007, 76, .	3.2	283
5	Exponential Improvement in Photon Storage Fidelities Using Subradiance and “Selective Radiance” in Atomic Arrays. <i>Physical Review X</i> , 2017, 7, .	8.9	263
6	Cavity QED with atomic mirrors. <i>New Journal of Physics</i> , 2012, 14, 063003.	2.9	205
7	Crystallization of strongly interacting photons in a nonlinear optical fibre. <i>Nature Physics</i> , 2008, 4, 884-889.	16.7	170
8	Topological Quantum Optics in Two-Dimensional Atomic Arrays. <i>Physical Review Letters</i> , 2017, 119, 023603.	7.8	145
9	Multiphoton-scattering theory and generalized master equations. <i>Physical Review A</i> , 2015, 92, .	2.5	137
10	Quantum dynamics of propagating photons with strong interactions: a generalized input–output formalism. <i>New Journal of Physics</i> , 2015, 17, 113001.	2.9	129
11	Atom-light interactions in quasi-one-dimensional nanostructures: A Green's-function perspective. <i>Physical Review A</i> , 2017, 95, .	2.5	100
12	Dynamics of Many-Body Photon Bound States in Chiral Waveguide QED. <i>Physical Review X</i> , 2020, 10, .	8.9	71
13	Optimization of photon storage fidelity in ordered atomic arrays. <i>New Journal of Physics</i> , 2018, 20, 083048.	2.9	64
14	Critical open-system dynamics in a one-dimensional optical-lattice clock. <i>Physical Review A</i> , 2019, 99, .	2.5	64
15	Controlling dipole-dipole frequency shifts in a lattice-based optical atomic clock. <i>Physical Review A</i> , 2004, 69, .	2.5	59
16	Optical waveguiding by atomic entanglement in multilevel atom arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25503-25511.	7.1	37
17	Geometric Control of Collective Spontaneous Emission. <i>Physical Review Letters</i> , 2020, 125, 213602.	7.8	31
18	Many-body localization in waveguide quantum electrodynamics. <i>Physical Review Research</i> , 2021, 3, .	3.6	31

#	ARTICLE	IF	CITATIONS
19	Quantum Nonlinear Optics Based on Two-Dimensional Rydberg Atom Arrays. <i>Physical Review Letters</i> , 2021, 127, 263602.	7.8	30
20	Maximum Refractive Index of an Atomic Medium. <i>Physical Review X</i> , 2021, 11, .	8.9	25
21	Atomic spin-wave control and spin-dependent kicks with shaped subnanosecond pulses. <i>Physical Review Research</i> , 2020, 2, .	3.6	10
22	Unconventional quantum correlations of light emitted by a single atom in free space. <i>Physical Review A</i> , 2021, 104, .	2.5	1
23	Renormalization group analysis of near-field induced dephasing of optical spin waves in an atomic medium. <i>New Journal of Physics</i> , 2022, 24, 013031.	2.9	1