Martin Kiffner

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6377661/publications.pdf

Version: 2024-02-01

| 55 | 1,236 | 19 | 34 |
|----------|----------------|--------------|----------------|
| papers | citations | h-index | g-index |
| 57 | 57 | 57 | 1135 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A quantum-inspired approach to exploit turbulence structures. Nature Computational Science, 2022, 2, 30-37. | 8.0 | 25 |
| 2 | Quantum self-supervised learning. Quantum Science and Technology, 2022, 7, 035005. | 5.8 | 8 |
| 3 | Coarse-grained intermolecular interactions on quantum processors. Physical Review A, 2022, 105, . | 2.5 | 3 |
| 4 | Directional THz generation in hot Rb vapor excited to a Rydberg state. Optics Letters, 2021, 46, 1017. | 3.3 | 12 |
| 5 | Variational quantum algorithms for nonlinear problems. Physical Review A, 2020, 101, . | 2.5 | 130 |
| 6 | Ultrafast Creation of Overlapping Rydberg Electrons in an Atomic BEC and Mott-Insulator Lattice. Physical Review Letters, 2020, 124, 253201. | 7.8 | 14 |
| 7 | Characterizing the phase diagram of finite-size dipolar Bose-Hubbard systems. Physical Review A, 2020, 101, . | 2.5 | 7 |
| 8 | Minimum hardware requirements for hybrid quantum–classical DMFT. Quantum Science and Technology, 2020, 5, 034015. | 5.8 | 20 |
| 9 | Mott polaritons in cavity-coupled quantum materials. New Journal of Physics, 2019, 21, 073066. | 2.9 | 19 |
| 10 | Bosonic fractional quantum Hall states on a finite cylinder. Physical Review A, 2019, 99, . | 2.5 | 16 |
| 11 | Manipulating quantum materials with quantum light. Physical Review B, 2019, 99, . | 3.2 | 46 |
| 12 | Efficient microwave-to-optical conversion using Rydberg atoms. Physical Review A, 2019, 99, . | 2.5 | 43 |
| 13 | Collimated UV light generation by two-photon excitation to a Rydberg state in Rb vapor. Optics Letters, 2019, 44, 2931. | 3.3 | 19 |
| 14 | Coherent Microwave-to-Optical Conversion via Six-Wave Mixing in Rydberg Atoms. Physical Review Letters, 2018, 120, 093201. | 7.8 | 87 |
| 15 | Topological Spin Models in Rydberg Lattices. , 2018, , 351-369. | | 0 |
| 16 | Probing microscopic models for system-bath interactions via parametric driving. Physical Review A, 2018, 98, . | 2.5 | 1 |
| 17 | A polynomial Ansatz for norm-conserving pseudopotentials. Journal of Physics Condensed Matter, 2018, 30, 275501. | 1.8 | 0 |
| 18 | Terahertz field control of interlayer transport modes in cuprate superconductors. Physical Review B, 2017, 96, . | 3.2 | 13 |

| # | Article | IF | Citations |
|----|--|------|-----------|
| 19 | Topological spin models in Rydberg lattices. Applied Physics B: Lasers and Optics, 2017, 123, 1. | 2.2 | 4 |
| 20 | Quantum mechanical calculation of Rydberg–Rydberg autoionization rates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 204004. | 1.5 | 12 |
| 21 | Two-way interconversion of millimeter-wave and optical fields in Rydberg gases. New Journal of Physics, 2016, 18, 093030. | 2.9 | 37 |
| 22 | Coherent bidirectional microwave-optical conversion using Rydberg atoms. , 2016, , . | | 1 |
| 23 | Pulse splitting in light propagation through <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>N</mml:mi></mml:math> -type atomic media due to an interplay of Kerr nonlinearity and group-velocity dispersion. Physical Review A, 2015, 92 | 2.5 | 8 |
| 24 | Lensing effect of electromagnetically induced transparency involving a Rydberg state. Physical Review A, 2015, 92, . | 2.5 | 16 |
| 25 | Single spontaneous photon as a coherent beamsplitter for an atomic matter-wave. , 2014, , . | | 0 |
| 26 | Few-body bound states of dipole-dipole-interacting Rydberg atoms. Physical Review A, 2014, 89, . | 2.5 | 9 |
| 27 | Magnetic Monopoles and Synthetic Spin-Orbit Coupling in Rydberg Macrodimers. Physical Review Letters, 2013, 110, 170402. | 7.8 | 28 |
| 28 | Abelian and non-Abelian gauge fields in dipole–dipole interacting Rydberg atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 134008. | 1.5 | 13 |
| 29 | Three-Body Bound States in Dipole-Dipole Interacting Rydberg Atoms. Physical Review Letters, 2013, 111, 233003. | 7.8 | 25 |
| 30 | Dipole-dipole-coupled double-Rydberg molecules. Physical Review A, 2012, 86, . | 2.5 | 32 |
| 31 | Dissipative quantum-light-field engineering. Physical Review A, 2012, 85, . | 2.5 | 7 |
| 32 | Steady-state negative Wigner functions of nonlinear nanomechanical oscillators. New Journal of Physics, 2012, 14, 023042. | 2.9 | 77 |
| 33 | Single spontaneous photon as a coherent beamsplitter for an atomic matter-wave. Nature Physics, 2011, 7, 379-382. | 16.7 | 13 |
| 34 | Dissipation-induced correlations in one-dimensional bosonic systems. New Journal of Physics, 2011, 13, 053027. | 2.9 | 10 |
| 35 | Subwavelength optical lattices induced by position-dependent dark states. Physical Review A, $2011,83,.$ | 2.5 | 4 |
| 36 | Cavity optomechanics with nonlinear mechanical resonators in the quantum regime. , $2011, , .$ | | 0 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Master equation approach for interacting slow- and stationary-light polaritons. Physical Review A, 2010, 82, . | 2.5 | 11 |
| 38 | Vacuum-Induced Processes in Multilevel Atoms. Progress in Optics, 2010, 55, 85-197. | 0.6 | 80 |
| 39 | Dissipation-induced Tonks-Girardeau gas of polaritons. Physical Review A, 2010, 81, . | 2.5 | 41 |
| 40 | Resonant interferometric lithography beyond the diffraction limit. , 2009, , . | | 0 |
| 41 | Dynamical control of pulse propagation in electromagnetically induced transparency. Physical Review A, 2009, 79, . | 2.5 | 9 |
| 42 | Probing quantum superposition states with few-cycle laser pulses. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1912. | 2.1 | 8 |
| 43 | Resonant Interferometric Lithography beyond the Diffraction Limit. Physical Review Letters, 2008, 100, 073602. | 7.8 | 72 |
| 44 | Resonant Interferometric Lithography beyond the Diffraction Limit. , 2008, , . | | 0 |
| 45 | Breakdown of the few-level approximation in collective systems. Physical Review A, 2007, 76, . | 2.5 | 15 |
| 46 | Coherent control in a decoherence-free subspace of a collective multilevel system. Physical Review A, 2007, 75, . | 2.5 | 26 |
| 47 | Breakdown of the few-level approximation in dipole-dipole interacting systems. Proceedings of SPIE, 2007, , . | 0.8 | 0 |
| 48 | Two-mode single-atom laser as a source of entangled light. Physical Review A, 2007, 75, . | 2.5 | 92 |
| 49 | Quantum Control of Interacting Multiatom Systems. AIP Conference Proceedings, 2007, , . | 0.4 | 0 |
| 50 | Breakdown of the Few-Level Approximation in Collective Systems. , 2007, , . | | 0 |
| 51 | Quantum Interference Enforced by Time-Energy Complementarity. Physical Review Letters, 2006, 96, 100403. | 7.8 | 54 |
| 52 | Geometry-dependent dynamics of twoî-type atoms via vacuum-induced coherences. Physical Review A, 2006, 73, . | 2.5 | 38 |
| 53 | Interference in the resonance fluorescence of two incoherently coupled transitions. Physical Review A, 2006, 73, . | 2.5 | 19 |
| 54 | Detection of atomic entanglement and electromagnetically induced transparency in velocity-selective coherent population trapping. Physical Review A, 2005, 71, . | 2.5 | 6 |

ARTICLE IF CITATIONS

55 Detection of atomic entanglement and electromagnetically induced transparency in velocity-selective coherent population trapping., 0, , .