# Stefano Zippilli

List of Publications by Year
in descending order



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|---|---|---|---|
| 48 papers | 1,165 citations | 331670 21 h-index | 377865 34 g-index |
| 49 all docs | 49 docs citations | 49 times ranked | 891 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Generation and detection of large and robust entanglement between two different mechanical resonators in cavity optomechanics. New Journal of Physics, 2015, 17, 103037. | 2.9 | 85 |
| 2 | Cooling Carbon Nanotubes to the Phononic Ground State with a Constant Electron Current. Physical Review Letters, 2009, 102, 096804. | 7.8 | 77 |
| 3 | Enhanced entanglement of two different mechanical resonators via coherent feedback. Physical Review A, 2017, 95, . | 2.5 | 76 |
| 4 | Two-photon lasing by a single quantum dot in a high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Q</mml:mi></mml:math>microcavity. Physical Review B, 2010, 81, . | 3.2 | 71 |
| 5 | Two-membrane cavity optomechanics. New Journal of Physics, 2018, 20, 083024. | 2.9 | 63 |
| 6 | Cooling Trapped Atoms in Optical Resonators. Physical Review Letters, 2005, 95, 143001. | 7.8 | 61 |
| 7 | Enhancing Sideband Cooling by Feedback-Controlled Light. Physical Review Letters, 2017, 119, 123603. | 7.8 | 61 |
| 8 | Normal-Mode Splitting in a Weakly Coupled Optomechanical System. Physical Review Letters, 2018, 120, 073601. | 7.8 | 45 |
| 9 | Optomechanical cooling with intracavity squeezed light. Optics Express, 2019, 27, 32427. | 3.4 | 39 |
| 10 | Mechanical effects of optical resonators on driven trapped atoms: Ground-state cooling in a high-finesse cavity. Physical Review A, 2005, 72, . | 2.5 | 37 |
| 11 | Suppression of Stokes scattering and improved optomechanical cooling with squeezed light. Physical Review A, 2016, 94, . | 2.5 | 37 |
| 12 | Mechanical Einstein-Podolsky-Rosen entanglement with a finite-bandwidth squeezed reservoir. Physical Review A, 2016, 93, . | 2.5 | 31 |
| 13 | Entanglement Replication in Driven Dissipative Many-Body systems. Physical Review Letters, 2013, 110, 040503. | 7.8 | 28 |
| 14 | Discriminating the effects of collapse models from environmental diffusion with levitated nanospheres. Physical Review A, 2016, 93, . | 2.5 | 28 |
| 15 | Entanglement and squeezing of continuous-wave stationary light. New Journal of Physics, 2015, 17, 043025. | 2.9 | 26 |
| 16 | Noise robustness of synchronization of two nanomechanical resonators coupled to the same cavity field. Physical Review A, 2020, 101, . | 2.5 | 25 |
| 17 | Steady-state nested entanglement structures in harmonic chains with single-site squeezing manipulation. Physical Review A, 2015, 92, . | 2.5 | 24 |
| 18 | Suppression of Bragg Scattering by Collective Interference of Spatially Ordered Atoms with a High-QCavity Mode. Physical Review Letters, 2004, 93, 123002. | 7.8 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Nonlinear optics with two trapped atoms. Physical Review A, 2007, 76, . | 2.5 | 23 |
| 20 | Ground-state-cooling vibrations of suspended carbon nanotubes with constant electron current. Physical Review B, 2010, 81, . | 3.2 | 23 |
| 21 | Scheme for decoherence control in microwave cavities. Physical Review A, 2003, 67, . | 2.5 | 22 |
| 22 | Adiabatic quantum simulation with a segmented ion trap: Application to long-distance entanglement in quantum spin systems. Physical Review A, 2014, 89, . | 2.5 | 20 |
| 23 | Enhancement of three-mode optomechanical interaction by feedback-controlled light. Quantum Science and Technology, 2017, 2, 034014. | 5.8 | 20 |
| 24 | Cavity optomechanics with feedback-controlled in-loop light. Physical Review A, 2018, 98, . | 2.5 | 19 |
| 25 | Non-Markovian dynamics and steady-state entanglement of cavity arrays in finite-bandwidth squeezed reservoirs. Physical Review A, 2014, 89, . | 2.5 | 17 |
| 26 | An optomechanical heat engine with feedback-controlled in-loop light. New Journal of Physics, 2019, 21, 093051. | 2.9 | 17 |
| 27 | Dissipative Engineering of Gaussian Entangled States in Harmonic Lattices with a Single-Site Squeezed Reservoir. Physical Review Letters, 2021, 126, 020402. | 7.8 | 17 |
| 28 | Entanglement of distant atoms by projective measurement: the role of detection efficiency. New Journal of Physics, 2008, 10, 103003. | 2.9 | 16 |
| 29 | Large distance continuous variable communication with concatenated swaps. Physica Scripta, 2015, 90, 074055. | 2.5 | 16 |
| 30 | Collective effects in the dynamics of driven atoms in a high-Q resonator. European Physical Journal D, 2004, 31, 507-518. | 1.3 | 15 |
| 31 | Quantum light by atomic arrays in optical resonators. Physical Review A, 2011, 84, . | 2.5 | 15 |
| 32 | Resonance fluorescence of a cold atom in a high-finesse resonator. Physical Review A, 2007, 76, . | 2.5 | 14 |
| 33 | Simulating long-distance entanglement in quantum spin chains by superconducting flux qubits. Physical Review A, 2015, 91, . | 2.5 | 12 |
| 34 | Optomechanical Stirling heat engine driven by feedback-controlled light. Physical Review A, 2020, 102, . | 2.5 | 10 |
| 35 | Decoherence control with fully quantum feedback schemes. Journal of Modern Optics, 2004, 51, 799-809. | 1.3 | 8 |
| 36 | Forces and spatial ordering of driven atoms in a resonator in the regime of fluorescence suppression. Applied Physics B: Lasers and Optics, 2004, 79, 969-978. | 2.2 | 7 |

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|---|---|---|---|
| 37 | Ground state cooling in a bad cavity. Journal of Modern Optics, 2007, 54, 1595-1606. | 1.3 | 7 |
| 38 | Feedback-enabled microwave quantum illumination. Quantum Science and Technology, 2022, 7, 035003. | 5.8 | 7 |
| 39 | Surface entanglement in quantum spin networks. Physical Review A, 2013, 87, . | 2.5 | 6 |
| 40 | Quantum-noise quenching in atomic tweezers. Physical Review A, 2011, 83, . | 2.5 | 4 |
| 41 | Stationary entanglement of photons and atoms in a high-finesse resonator. Physical Review A, 2014, 89, . | 2.5 | 4 |
| 42 | Possibility to generate any Gaussian cluster state by a multimode squeezing transformation. Physical Review A, 2020, 102, . | 2.5 | 4 |
| 43 | Quantum jumps induced by the center-of-mass motion of a trapped atom. European Physical Journal D, 2011, 61, 21-32. | 1.3 | 2 |
| 44 | Quantum Enhanced optomechanical cooling with squeezed light. , 2017, , . | | 1 |
| 45 | Quantum state protection with quantum feedback schemes. , 0, , . | | 0 |
| 46 | Collective quantum dynamics of an atomic lattice coupled to an optical resonator. , 0, , . | | 0 |
| 47 | Dynamics of cavity cooling of trapped atoms. , 2007, , . | | 0 |
| 48 | High-fidelity ground state cooling of a mechanical resonator via squeezed light driving. , 2017, , . | | 0 |