

# Claudiu Genes

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58  
papers

3,095  
citations

26  
h-index

55  
g-index

63  
ext. papers

3,636  
ext. citations

4.4  
avg, IF

5.35  
L-index

| #  | Paper   | IF  | Citations |
|----|---|-----|-----------|
| 58 | Cooperative Quantum Phenomena in Light-Matter Platforms. <i>PRX Quantum</i> , <b>2022</b> , 3,  | 6.1 | 2         |
| 57 | Molecular polaritonics in dense mesoscopic disordered ensembles. <i>Physical Review Research</i> , <b>2021</b> , 3,   | 3.9 | 6         |
| 56 | Ensemble-Induced Strong Light-Matter Coupling of a Single Quantum Emitter. <i>Physical Review Letters</i> , <b>2020</b> , 124, 113602                               | 7.4 | 21        |
| 55 | Prospects of reinforcement learning for the simultaneous damping of many mechanical modes. <i>Scientific Reports</i> , <b>2020</b> , 10, 2623                       | 4.9 | 2         |
| 54 | Ising model in a light-induced quantized transverse field. <i>Physical Review Research</i> , <b>2020</b> , 2,   | 3.9 | 2         |
| 53 | Molecule-photon interactions in phononic environments. <i>Physical Review Research</i> , <b>2020</b> , 2,   | 3.9 | 9         |
| 52 | Multimode cold-damping optomechanics with delayed feedback. <i>Physical Review Research</i> , <b>2020</b> , 2,  | 3.9 | 5         |
| 51 | Floquet engineering of molecular dynamics via infrared coupling. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 234305                                     | 3.9 | 3         |
| 50 | Cavity Quantum Electrodynamics with Frequency-Dependent Reflectors. <i>Physical Review Letters</i> , <b>2019</b> , 122, 243601                                      | 7.4 | 20        |
| 49 | Langevin Approach to Quantum Optics with Molecules. <i>Physical Review Letters</i> , <b>2019</b> , 122, 203602  | 7.4 | 32        |
| 48 | Enhanced collective Purcell effect of coupled quantum emitter systems. <i>Physical Review A</i> , <b>2019</b> , 99,   | 2.6 | 11        |
| 47 | Interference effects in hybrid cavity optomechanics. <i>Quantum Science and Technology</i> , <b>2019</b> , 4, 024002  | 5.5 | 8         |
| 46 | Super- and subradiance of clock atoms in multimode optical waveguides. <i>New Journal of Physics</i> , <b>2019</b> , 21, 025004                                     | 2.9 | 7         |
| 45 | Partial Optomechanical Refrigeration via Multimode Cold-Damping Feedback. <i>Physical Review Letters</i> , <b>2019</b> , 123, 203605                                | 7.4 | 15        |
| 44 | Laser refrigeration of gas filled hollow-core fibres. <i>AIP Advances</i> , <b>2019</b> , 9, 105213   | 1.5 | 0         |
| 43 | Ramsey interferometry of Rydberg ensembles inside microwave cavities. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2018</b> , 51, 115502 | 1.3 |           |
| 42 | Energy transfer and correlations in cavity-embedded donor-acceptor configurations. <i>Scientific Reports</i> , <b>2018</b> , 8, 9050                                | 4.9 | 17        |

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| 41 | Cavity-assisted mesoscopic transport of fermions: Coherent and dissipative dynamics. <i>Physical Review B</i> , <b>2018</b> , 97,                            | 3.3  | 27  |
| 40 | Light-matter interactions in multi-element resonators. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2017</b> , 50, 105502         | 1.3  | 1   |
| 39 | Cavity Antiresonance Spectroscopy of Dipole Coupled Subradiant Arrays. <i>Physical Review Letters</i> , <b>2017</b> , 119, 093601                            | 7.4  | 31  |
| 38 | Cavity-Enhanced Transport of Charge. <i>Physical Review Letters</i> , <b>2017</b> , 119, 223601  | 7.4  | 76  |
| 37 | Direct observation of ultrafast many-body electron dynamics in an ultracold Rydberg gas. <i>Nature Communications</i> , <b>2016</b> , 7, 13449               | 17.4 | 30  |
| 36 | Time-domain Ramsey interferometry with interacting Rydberg atoms. <i>Physical Review A</i> , <b>2016</b> , 94,   | 2.6  | 7   |
| 35 | Laser noise imposed limitations of ensemble quantum metrology. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2016</b> , 49, 245501 | 1.3  | 7   |
| 34 | Cavity-enhanced transport of excitons. <i>Physical Review Letters</i> , <b>2015</b> , 114, 196403  | 7.4  | 159 |
| 33 | Conductivity in organic semiconductors hybridized with the vacuum field. <i>Nature Materials</i> , <b>2015</b> , 14, 1123-9                                  | 27   | 305 |
| 32 | Selective protected state preparation of coupled dissipative quantum emitters. <i>Scientific Reports</i> , <b>2015</b> , 5, 16231                            | 4.9  | 33  |
| 31 | A Realization of a Quasi-Random Walk for Atoms in Time-Dependent Optical Potentials. <i>Atoms</i> , <b>2015</b> , 3, 433-449                                 | 2.1  | 1   |
| 30 | Reconfigurable long-range phonon dynamics in optomechanical arrays. <i>Physical Review Letters</i> , <b>2014</b> , 112, 133604                               | 7.4  | 53  |
| 29 | Hybrid Mechanical Systems <b>2014</b> , 327-351  |      | 46  |
| 28 | Nonclassical States of Light and Mechanics <b>2014</b> , 25-56   |      | 7   |
| 27 | Hybrid cavity mechanics with doped systems. <i>Physical Review A</i> , <b>2014</b> , 90,   | 2.6  | 23  |
| 26 | Protected subspace Ramsey spectroscopy. <i>Physical Review A</i> , <b>2014</b> , 90,   | 2.6  | 11  |
| 25 | Transmissive optomechanical platforms with engineered spatial defects. <i>Physical Review A</i> , <b>2014</b> , 90,  | 2.6  | 2   |
| 24 | Protected state enhanced quantum metrology with interacting two-level ensembles. <i>Physical Review Letters</i> , <b>2013</b> , 111, 123601                  | 7.4  | 33  |

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|----|--|-----|-----|
| 23 | Enhanced optomechanical readout using optical coalescence. <i>Physical Review A</i> , <b>2013</b> , 88,  | 2.6 | 13  |
| 22 | Collectively enhanced optomechanical coupling in periodic arrays of scatterers. <i>Physical Review A</i> , <b>2013</b> , 88,   | 2.6 | 37  |
| 21 | Strong coupling and long-range collective interactions in optomechanical arrays. <i>Physical Review Letters</i> , <b>2012</b> , 109, 223601  | 7.4 | 155 |
| 20 | Quantum-correlated motion and heralded entanglement of distant optomechanically coupled objects. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2012</b> , 45, 245501 | 1.3 | 12  |
| 19 | Atom-membrane cooling and entanglement using cavity electromagnetically induced transparency. <i>Physical Review A</i> , <b>2011</b> , 84,   | 2.6 | 80  |
| 18 | Optical lattices with micromechanical mirrors. <i>Physical Review A</i> , <b>2010</b> , 82,  | 2.6 | 45  |
| 17 | Optomechanical approach to cooling of small polarizable particles in a strongly pumped ring cavity. <i>Physical Review A</i> , <b>2010</b> , 81,   | 2.6 | 24  |
| 16 | Single-atom cavity QED and optomicromechanics. <i>Physical Review A</i> , <b>2010</b> , 81,  | 2.6 | 87  |
| 15 | Strong coupling of a mechanical oscillator and a single atom. <i>Physical Review Letters</i> , <b>2009</b> , 103, 063005   | 7.4 | 164 |
| 14 | Sub-Planck-scale structures in a vibrating molecule in the presence of decoherence. <i>Physical Review A</i> , <b>2009</b> , 79,   | 2.6 | 18  |
| 13 | Chapter 2 Quantum Effects in Optomechanical Systems. <i>Advances in Atomic, Molecular and Optical Physics</i> , <b>2009</b> , 57, 33-86  | 1.7 | 131 |
| 12 | Phase-noise induced limitations on cooling and coherent evolution in optomechanical systems. <i>Physical Review A</i> , <b>2009</b> , 80,  | 2.6 | 70  |
| 11 | Cavity-assisted squeezing of a mechanical oscillator. <i>Physical Review A</i> , <b>2009</b> , 79,   | 2.6 | 154 |
| 10 | Micromechanical oscillator ground-state cooling via resonant intracavity optical gain or absorption. <i>Physical Review A</i> , <b>2009</b> , 80,  | 2.6 | 99  |
| 9  | Ground-state cooling of a micromechanical oscillator: Comparing cold damping and cavity-assisted cooling schemes. <i>Physical Review A</i> , <b>2008</b> , 77,                                 | 2.6 | 397 |
| 8  | Robust entanglement of a micromechanical resonator with output optical fields. <i>Physical Review A</i> , <b>2008</b> , 78,  | 2.6 | 227 |
| 7  | Emergence of atom-light-mirror entanglement inside an optical cavity. <i>Physical Review A</i> , <b>2008</b> , 77,   | 2.6 | 201 |
| 6  | Simultaneous cooling and entanglement of mechanical modes of a micromirror in an optical cavity. <i>New Journal of Physics</i> , <b>2008</b> , 10, 095009                                      | 2.9 | 76  |

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|---|--|-----|----|
| 5 | Self-cooling of a movable mirror to the ground state using radiation pressure. <i>Physical Review A</i> , <b>2008</b> , 77,                    | 2.6 | 42 |
| 4 | Generating conditional atomic entanglement by measuring photon number in a single output channel. <i>Physical Review A</i> , <b>2006</b> , 73, | 2.6 | 8  |
| 3 | Cooperative spin decoherence and population transfer. <i>Physical Review A</i> , <b>2006</b> , 73,   | 2.6 | 1  |
| 2 | Atomic entanglement generation with reduced decoherence via four-wave mixing. <i>Physical Review A</i> , <b>2006</b> , 73,                     | 2.6 | 4  |
| 1 | Spin squeezing via atom-cavity field coupling. <i>Physical Review A</i> , <b>2003</b> , 68,  | 2.6 | 25 |