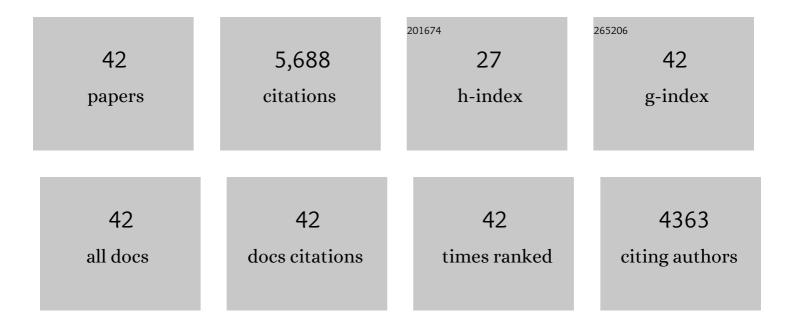
Sylvain Nascimbene

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Quantum simulations with ultracold quantum gases. Nature Physics, 2012, 8, 267-276. | 16.7 | 1,612 |
| 2 | Measuring the Chern number of Hofstadter bands with ultracold bosonic atoms. Nature Physics, 2015, 11, 162-166. | 16.7 | 777 |
| 3 | Experimental Realization of Strong Effective Magnetic Fields in an Optical Lattice. Physical Review Letters, 2011, 107, 255301. | 7.8 | 629 |
| 4 | Exploring the thermodynamics of a universal Fermi gas. Nature, 2010, 463, 1057-1060. | 27.8 | 457 |
| 5 | The Equation of State of a Low-Temperature Fermi Gas with Tunable Interactions. Science, 2010, 328, 729-732. | 12.6 | 311 |
| 6 | Collective Oscillations of an Imbalanced Fermi Gas: Axial Compression Modes and Polaron Effective Mass. Physical Review Letters, 2009, 103, 170402. | 7.8 | 260 |
| 7 | Emergence of coherence via transverse condensation in a uniform quasi-two-dimensional Bose gas. Nature Communications, 2015, 6, 6162. | 12.8 | 206 |
| 8 | Quench-Induced Supercurrents in an Annular Bose Gas. Physical Review Letters, 2014, 113, 135302. | 7.8 | 172 |
| 9 | Artificial gauge fields in materials and engineered systems. Comptes Rendus Physique, 2018, 19, 394-432. | 0.9 | 143 |
| 10 | Controlling Correlated Tunneling and Superexchange Interactions with ac-Driven Optical Lattices. Physical Review Letters, 2011, 107, 210405. | 7.8 | 142 |
| 11 | Fermi-Liquid Behavior of the Normal Phase of a Strongly Interacting Gas of Cold Atoms. Physical Review Letters, 2011, 106, 215303. | 7.8 | 84 |
| 12 | Experimental Realization of Plaquette Resonating Valence-Bond States with Ultracold Atoms in Optical Superlattices. Physical Review Letters, 2012, 108, 205301. | 7.8 | 80 |
| 13 | Sound Propagation in a Uniform Superfluid Two-Dimensional Bose Gas. Physical Review Letters, 2018, 121, 145301. | 7.8 | 65 |
| 14 | Probing chiral edge dynamics and bulk topology of a synthetic Hall system. Nature Physics, 2020, 16, 1017-1021. | 16.7 | 59 |
| 15 | Dynamic Optical Lattices of Subwavelength Spacing for Ultracold Atoms. Physical Review Letters, 2015, 115, 140401. | 7.8 | 57 |
| 16 | Experimental realization of strong effective magnetic fields in optical superlattice potentials. Applied Physics B: Lasers and Optics, 2013, 113, 1-11. | 2.2 | 53 |
| 17 | Transmission of near-resonant light through a dense slab of cold atoms. Physical Review A, 2017, 96, . | 2.5 | 51 |
| 18 | Quantum-enhanced sensing using non-classical spin states of a highly magnetic atom. Nature Communications, 2018, 9, 4955. | 12.8 | 48 |

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Realizing one-dimensional topological superfluids with ultracold atomic gases. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 134005. | 1.5 | 45 |
| 20 | The equation of state of ultracold Bose and Fermi gases: a few examples. New Journal of Physics, 2010, 12, 103026. | 2.9 | 43 |
| 21 | Relaxation Dynamics in the Merging of <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mi>N</mml:mi></mml:math> Independent Condensates. Physical Review Letters, 2017, 119, 190403. | 7.8 | 41 |
| 22 | Loading and compression of a single two-dimensional Bose gas in an optical accordion. Physical Review A, 2017, 95, . | 2.5 | 39 |
| 23 | Dynamical Symmetry and Breathers in a Two-Dimensional Bose Gas. Physical Review X, 2019, 9, . | 8.9 | 37 |
| 24 | Determination of Scale-Invariant Equations of State without Fitting Parameters: Application to the Two-Dimensional Bose Gas Across the Berezinskii-Kosterlitz-Thouless Transition. Physical Review Letters, 2014, 113, 020404. | 7.8 | 31 |
| 25 | Liquid Helium up to 160 bar. Journal of Low Temperature Physics, 2004, 136, 93-116. | 1.4 | 29 |
| 26 | Optical trapping of ultracold dysprosium atoms: transition probabilities, dynamic dipole polarizabilities and van der Waals <i>C</i> ₆ coefficients. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 014005. | 1.5 | 28 |
| 27 | Optical cooling and trapping of highly magnetic atoms: the benefits of a spontaneous spin polarization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 065005. | 1.5 | 27 |
| 28 | Enhanced Magnetic Sensitivity with Non-Gaussian Quantum Fluctuations. Physical Review Letters, 2019, 122, 173601. | 7.8 | 27 |
| 29 | Realization of a Townes Soliton in a Two-Component Planar Bose Gas. Physical Review Letters, 2021, 127, 023603. | 7.8 | 26 |
| 30 | Probing Quantum Criticality and Symmetry Breaking at the Microscopic Level. Physical Review Letters, 2019, 123, 120601. | 7.8 | 19 |
| 31 | Laughlin's Topological Charge Pump in an Atomic Hall Cylinder. Physical Review Letters, 2022, 128, 173202. | 7.8 | 14 |
| 32 | Resonant-light diffusion in a disordered atomic layer. Physical Review A, 2018, 97, . | 2.5 | 12 |
| 33 | Tan's two-body contact across the superfluid transition of a planar Bose gas. Nature Communications, 2021, 12, 760. | 12.8 | 12 |
| 34 | Anisotropic light shift and magic polarization of the intercombination line of dysprosium atoms in a far-detuned dipole trap. Physical Review A, 2018, 98, . | 2.5 | 11 |
| 35 | Optical control of the density and spin spatial profiles of a planar Bose gas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 08LT01. | 1.5 | 9 |
| 36 | Bose-Hubbard physics in synthetic dimensions from interaction Trotterization. Physical Review Research, 2020, 2, . | 3.6 | 8 |

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|----|---|-----|-----------|
| 37 | Condensation energy of a spin-1/2 strongly interacting Fermi gas. Physical Review A, 2013, 88, . | 2.5 | 7 |
| 38 | Magnetic Dipolar Interaction between Hyperfine Clock States in a Planar Alkali Bose Gas. Physical Review Letters, 2020, 125, 233604. | 7.8 | 6 |
| 39 | Creating fractional quantum Hall states with atomic clusters using light-assisted insertion of angular momentum. Physical Review A, 2016, 94, . | 2.5 | 4 |
| 40 | Simulating two-dimensional dynamics within a large-size atomic spin. Physical Review A, 2022, 105, . | 2.5 | 3 |
| 41 | Thermodynamics of the unitary Fermi gas. Journal of Physics: Conference Series, 2011, 264, 012012. | 0.4 | 2 |
| 42 | Partitioning dysprosium's electronic spin to reveal entanglement in nonclassical states. Physical Review Research, 2021, 3, . | 3.6 | 2 |