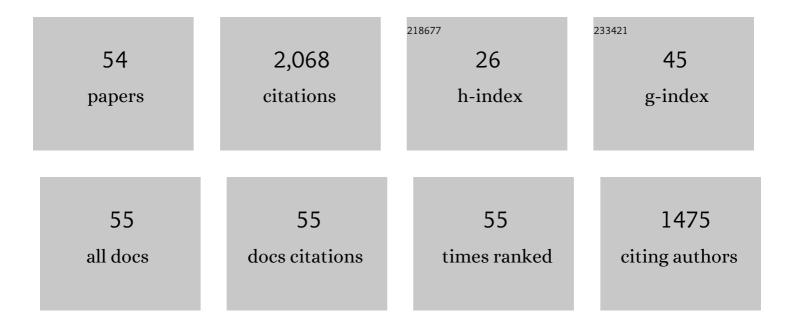
Shannon Whitlock

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Glassy Dynamics in a Disordered Heisenberg Quantum Spin System. Physical Review X, 2021, 11, . | 8.9 | 29 |
| 2 | Epidemic growth and Griffiths effects on an emergent network of excited atoms. Nature Communications, 2021, 12, 103. | 12.8 | 13 |
| 3 | Hydrodynamic Stabilization of Self-Organized Criticality in a Driven Rydberg Gas. Physical Review Letters, 2021, 126, 123401. | 7.8 | 3 |
| 4 | Quantum simulation and computing with Rydberg-interacting qubits. AVS Quantum Science, 2021, 3, . | 4.9 | 144 |
| 5 | Unitary and Nonunitary Quantum Cellular Automata with Rydberg Arrays. Physical Review Letters, 2020, 124, 070503. | 7.8 | 41 |
| 6 | Preparation of hundreds of microscopic atomic ensembles in optical tweezer arrays. Npj Quantum Information, 2020, 6, . | 6.7 | 32 |
| 7 | Two-dimensional spectroscopy of Rydberg gases. New Journal of Physics, 2020, 22, 073040. | 2.9 | 1 |
| 8 | Signatures of self-organized criticality in an ultracold atomic gas. Nature, 2020, 577, 481-486. | 27.8 | 50 |
| 9 | Realization of a Rydberg-Dressed Ramsey Interferometer and Electrometer. Physical Review Letters, 2019, 122, 053601. | 7.8 | 37 |
| 10 | Diffusive to Nonergodic Dipolar Transport in a Dissipative Atomic Medium. Physical Review Letters, 2019, 123, 213606. | 7.8 | 10 |
| 11 | Relaxation of an Isolated Dipolar-Interacting Rydberg Quantum Spin System. Physical Review Letters, 2018, 120, 063601. | 7.8 | 54 |
| 12 | Uncovering the nonequilibrium phase structure of an open quantum spin system. Physical Review A, 2018, 98, . | 2.5 | 24 |
| 13 | Simulating quantum spin models using Rydberg-excited atomic ensembles in magnetic microtrap arrays. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 074001. | 1.5 | 29 |
| 14 | Versatile, high-power 460 nm laser system for Rydberg excitation of ultracold potassium. Optics Express, 2017, 25, 14829. | 3.4 | 17 |
| 15 | Density matrix reconstruction of three-level atoms via Rydberg electromagnetically induced transparency. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 164002. | 1.5 | 12 |
| 16 | Magnetic lattices for ultracold atoms and degenerate quantum gases. Science Bulletin, 2016, 61, 1097-1106. | 9.0 | 12 |
| 17 | Two-body interactions and decay of three-level Rydberg-dressed atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 03LT02. | 1.5 | 16 |
| 18 | Correlated Exciton Transport in Rydberg-Dressed-Atom Spin Chains. Physical Review Letters, 2015, 115, 093002. | 7.8 | 76 |

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Sub-micron period lattice structures of magnetic microtraps for ultracold atoms on an atom chip. Journal Physics D: Applied Physics, 2015, 48, 115002. | 2.8 | 18 |
| 20 | Radio-frequency spectroscopy of a linear array of Bose-Einstein condensates in a magnetic lattice. Physical Review A, 2015, 91, . | 2.5 | 7 |
| 21 | Quantum Simulation of Energy Transport with Embedded Rydberg Aggregates. Physical Review Letters, 2015, 114, 123005. | 7.8 | 51 |
| 22 | Semianalytical model for nonlinear absorption in strongly interacting Rydberg gases. Physical Review A, 2014, 89, . | 2.5 | 18 |
| 23 | Collective Excitation of Rydberg-Atom Ensembles beyond the Superatom Model. Physical Review Letters, 2014, 113, 233002. | 7.8 | 24 |
| 24 | Full Counting Statistics of Laser Excited Rydberg Aggregates in a One-Dimensional Geometry. Physical Review Letters, 2014, 112, 013002. | 7.8 | 116 |
| 25 | An experimental approach for investigating many-body phenomena in Rydberg-interacting quantum systems. Frontiers of Physics, 2014, 9, 571-586. | 5.0 | 27 |
| 26 | Periodic array of Bose-Einstein condensates in a magnetic lattice. Physical Review A, 2014, 89, . | 2.5 | 33 |
| 27 | Observing the Dynamics of Dipole-Mediated Energy Transport by Interaction-Enhanced Imaging. Science, 2013, 342, 954-956. | 12.6 | 187 |
| 28 | Sub-Poissonian Statistics of Rydberg-Interacting Dark-State Polaritons. Physical Review Letters, 2013, 110, 203601. | 7.8 | 86 |
| 29 | Spontaneous Avalanche Ionization of a Strongly Blockaded Rydberg Gas. Physical Review Letters, 2013, 110, 045004. | 7.8 | 71 |
| 30 | Interaction Enhanced Imaging of Individual Rydberg Atoms in Dense Gases. Physical Review Letters, 2012, 108, 013002. | 7.8 | 85 |
| 31 | Crossover from 2D to 3D in a Weakly Interacting Fermi Gas. Physical Review Letters, 2011, 106, 105304. | 7.8 | 113 |
| 32 | Trapping of ultracold atoms in a 10 μm-period permanent magnetic lattice. , 2011, , . | | 0 |
| 33 | Box traps on an atom chip for one-dimensional quantum gases. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 155002. | 1.5 | 36 |
| 34 | ARRAY OF MESOSCOPIC ENSEMBLES ON A MAGNETIC ATOM CHIP. , 2010, , . | | 0 |
| 35 | Detection of small atom numbers through image processing. Physical Review A, 2010, 82, . | 2.5 | 72 |
| 36 | Spatially resolved excitation of Rydberg atoms and surface effects on an atom chip. Physical Review A, 2010, 81, . | 2.5 | 115 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Sub-Poissonian Atom-Number Fluctuations by Three-Body Loss in Mesoscopic Ensembles. Physical Review Letters, 2010, 104, 120402. | 7.8 | 30 |
| 38 | Optimized magnetic lattices for ultracold atomic ensembles. New Journal of Physics, 2010, 12, 103029. | 2.9 | 24 |
| 39 | Fabricating atom chips with femtosecond laser ablation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 085301. | 1.5 | 4 |
| 40 | Two-dimensional array of microtraps with atomic shift register on a chip. New Journal of Physics, 2009, 11, 023021. | 2.9 | 88 |
| 41 | Scanning magnetoresistance microscopy of atom chips. Review of Scientific Instruments, 2008, 79, 023702. | 1.3 | 7 |
| 42 | Fully permanent magnet atom chip for Bose-Einstein condensation. Physical Review A, 2008, 77, . | 2.5 | 19 |
| 43 | Longitudinal character of atom-chip-based rf-dressed potentials. Physical Review A, 2008, 77, . | 2.5 | 21 |
| 44 | BOSE-EINSTEIN CONDENSATES ON MAGNETIC FILM MICROSTRUCTURES. , 2008, , . | | 1 |
| 45 | Dynamics of Bose-Einstein condensates in an asymmetric double-well. , 2007, , . | | 0 |
| 46 | Permanent magnet atom chips for BEC and microtrap arrays. , 2007, , . | | 0 |
| 47 | Effect of magnetization inhomogeneity on magnetic microtraps for atoms. Physical Review A, 2007, 75, . | 2.5 | 20 |
| 48 | Lattice of microtraps for ultracold atoms based on patterned magnetic films. Physical Review A, 2007, 76, . | 2.5 | 51 |
| 49 | Condensate Splitting in an Asymmetric Double Well for Atom Chip Based Sensors. Physical Review Letters, 2007, 98, 030402. | 7.8 | 80 |
| 50 | Fabrication of Atom Chips with Femtosecond Laser Ablation. , 2007, , . | | 0 |
| 51 | A permanent magnetic film atom chip for Bose–Einstein condensation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 27-36. | 1.5 | 32 |
| 52 | Perpendicularly magnetized, grooved GdTbFeCo microstructures for atom optics. Journal Physics D: Applied Physics, 2005, 38, 4015-4020. | 2.8 | 21 |
| 53 | BOSE-EINSTEIN CONDENSATES ON A PERMANENT MAGNETIC FILM ATOM CHIP. , 2005, , . | | 2 |
| 54 | UBRIphotometry of globular clusters in the Leo group galaxy NGC 3379. Monthly Notices of the Royal Astronomical Society, 2003, 345, 949-959. | 4.4 | 8 |