

Andrii Sotnikov

List of Publications by Year in descending order

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papers

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citations

933447

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times ranked

219
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Field-induced exciton condensation in LaCoO ₃ . Scientific Reports, 2016, 6, 30510. | 3.3 | 42 |
| 2 | Magnetic ordering of three-component ultracold fermionic mixtures in optical lattices. Physical Review A, 2014, 89, . | 2.5 | 20 |
| 3 | Advantages of Mass-Imbalanced Ultracold Fermionic Mixtures for Approaching Quantum Magnetism in Optical Lattices. Physical Review Letters, 2012, 109, 065301. | 7.8 | 18 |
| 4 | Green-function method in the theory of ultraslow electromagnetic waves in an ideal gas with Bose-Einstein condensates. Physical Review A, 2008, 78, . | 2.5 | 17 |
| 5 | Critical entropies and magnetic-phase-diagram analysis of ultracold three-component fermionic mixtures in optical lattices. Physical Review A, 2015, 92, . | 2.5 | 17 |
| 6 | Excitonic dispersion of the intermediate spin state in LaCoO_3 revealed by resonant inelastic x-ray scattering. Physical Review B, 2018, 98, . | 3.2 | 16 |
| 7 | Magnetic phases of mass- and population-imbalanced ultracold fermionic mixtures in optical lattices. Physical Review A, 2013, 87, . | 2.5 | 13 |
| 8 | Chemical potentials and thermodynamic characteristics of ideal Bose- and Fermi-gases in the region of quantum degeneracy. Low Temperature Physics, 2017, 43, 144-151. | 0.6 | 11 |
| 9 | On the influence of the internal structure of the atom on Bose-Einstein condensation in an ideal gas of hydrogenlike atoms. Low Temperature Physics, 2007, 33, 30-36. | 0.6 | 10 |
| 10 | Competing phases in a model of Pr-based cobaltites. Physical Review B, 2017, 96, . | 3.2 | 10 |
| 11 | On the response of a system with bound states of particles to the perturbation by the external electromagnetic field. Condensed Matter Physics, 2006, 9, 459. | 0.7 | 10 |
| 12 | Breaking of SU(4) symmetry and interplay between strongly correlated phases in the Hubbard model. Physical Review B, 2017, 95, . | 3.2 | 9 |
| 13 | Microwaves Interaction Peculiarities with the Ideal Gas of Alkali Atoms in BEC State. Journal of Low Temperature Physics, 2008, 150, 618-623. | 1.4 | 8 |
| 14 | Possibility of controlling the light speed in a Bose condensate by an external static magnetic field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 1392-1395. | 2.1 | 8 |
| 15 | Role of temperature effects in the phenomenon of ultraslow electromagnetic pulses in Bose-Einstein condensates of alkali-metal atoms. Physical Review A, 2009, 80, . | 2.5 | 8 |
| 16 | Damping of spinful excitons in LaCoO_3 by thermal fluctuations: Theory and experiment. Physical Review B, 2020, 101, . | 3.2 | 7 |
| 17 | Propagation of relativistic charged particles in ultracold atomic gases with Bose-Einstein condensates. Physical Review A, 2011, 83, . | 2.5 | 6 |
| 18 | Effects of anisotropy in simple lattice geometries on many-body properties of ultracold fermions in optical lattices. Physical Review A, 2015, 92, . | 2.5 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Re-examining the quadratic approximation in theory of a weakly interacting Bose gas with condensate: the role of nonlocal interaction potentials. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 205302. | 1.5 | 6 |
| 20 | Orbital magnetism of ultracold fermionic gases in a lattice: Dynamical mean-field approach. Physical Review A, 2016, 93, . | 2.5 | 5 |
| 21 | Theoretical investigation of excitonic magnetism in LaSrCoO ₄ . Journal of Physics Condensed Matter, 2018, 30, 135603. | 1.8 | 5 |
| 22 | Feasibility of using Bose-Einstein condensates for filtering optical pulses. Low Temperature Physics, 2010, 36, 671-676. | 0.6 | 4 |
| 23 | Ferromagnetism of LaCoO ₃ films. SciPost Physics, 2020, 8, . | 4.9 | 4 |
| 24 | Orbital ordering of ultracold alkaline-earth atoms in optical lattices. Physical Review Research, 2020, 2, . | 3.6 | 4 |
| 25 | SU(4)-symmetric Hubbard model at quarter filling: Insights from the dynamical mean-field approach. Physical Review B, 2021, 104, . | 3.2 | 4 |
| 26 | Suppression and revival of long-range ferromagnetic order in the multiorbital Fermi-Hubbard model. Physical Review B, 2018, 97, . | 3.2 | 3 |
| 27 | Pressure-induced spin-state ordering in $\text{Sr}_{1-x}\text{Ca}_x\text{FeAs}_2$. Physical Review B, 2019, 99, . | 2.2 | 3 |
| 28 | Perspectives of optical lattices with state-dependent tunneling in approaching quantum magnetism in the presence of the external harmonic trapping potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1184-1188. | 2.1 | 2 |
| 29 | Thermodynamics of a weakly interacting Bose gas above the transition temperature. Physica Scripta, 2021, 96, 045401. | 2.5 | 2 |
| 30 | Many-body localization in a quantum gas with long-range interactions and linear external potential. Physical Review B, 2022, 105, . | 3.2 | 2 |
| 31 | Aspects of Bose-Einstein condensation in a charged boson system over the dielectric surface. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 417, 127695. | 2.1 | 1 |
| 32 | Thermodynamic characteristics of ideal quantum gases in harmonic potentials within exact and semiclassical approaches. Physica A: Statistical Mechanics and Its Applications, 2022, 589, 126605. | 2.6 | 1 |
| 33 | Low-Temperature Phases in Two-Orbital Hubbard Model Realized with Ultracold Atoms in Optical Lattices. Acta Physica Polonica A, 2020, 138, 669-672. | 0.5 | 1 |
| 34 | MICROSCOPIC APPROACH IN THE DESCRIPTION OF SLOWING OF ELECTROMAGNETIC PULSES IN BEC OF ALKALIS. International Journal of Modern Physics B, 2009, 23, 4109-4120. | 2.0 | 0 |
| 35 | Magnetic field dependence and the possibility of filtering ultraslow light pulses in atomic gases with Bose-Einstein condensates. Physica Scripta, 2010, T140, 014061. | 2.5 | 0 |
| 36 | On some peculiarities of propagation of weak electromagnetic pulses in Bose-Einstein condensates of alkali-metal atoms. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2011, 111, 639-646. | 0.6 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|----|-----------|
| 37 | MICROSCOPIC APPROACH IN THE DESCRIPTION OF SLOWING OF ELECTROMAGNETIC PULSES IN BEC OF ALKALIS. , 2009, , . | | 0 |