Andrii Sotnikov

List of Publications by Year
in descending order

37	283	933447 10	996975 15
papers	citations	h-index	g-index

39	39	39	219
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Many-body localization in a quantum gas with long-range interactions and linear external potential. Physical Review B, 2022, 105, .	3.2	2
3	Thermodynamics of a weakly interacting Bose gas above the transition temperature. Physica Scripta, 2021, 96, 045401.	2.5	2
4	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
5	SU(4)-symmetric Hubbard model at quarter filling: Insights from the dynamical mean-field approach. Physical Review B, 2021, 104, .	3.2	4
6	Damping of spinful excitons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaCoO</mml:mi><mml:mn>3</mml:mn></mml:msub></r by thermal fluctuations: Theory and experiment. Physical Review B, 2020, 101, .	3.2	7
7	Ferromagnetism of LaCoO$_3$ films. SciPost Physics, 2020, 8, .	4.9	4
8	Orbital ordering of ultracold alkaline-earth atoms in optical lattices. Physical Review Research, 2020, 2, .	3.6	4
9	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
10	Pressure-induced spin-state ordering in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn> mathvariant="normal">F</mml:mi></mml:mrow></mml:math>. Physical Review B, 2019, 99, .	3.2	3
11	Theoretical investigation of excitonic magnetism in LaSrCoO4. Journal of Physics Condensed Matter, 2018, 30, 135603.	1.8	5
12	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
13	Suppression and revival of long-range ferromagnetic order in the multiorbital Fermi-Hubbard model. Physical Review B, 2018, 97, .	3.2	3
14	Excitonic dispersion of the intermediate spin state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaCoO</mml:mi><mml:mn>3</mml:mn></mml:msub></r revealed by resonant inelastic x-ray scattering. Physical Review B, 2018, 98, .	3.2	16
15	Breaking of SU(4) symmetry and interplay between strongly correlated phases in the Hubbard model. Physical Review B, 2017, 95, .	3.2	9
16	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
17	Competing phases in a model of Pr-based cobaltites. Physical Review B, 2017, 96, .	3.2	10
18	Orbital magnetism of ultracold fermionic gases in a lattice: Dynamical mean-field approach. Physical Review A, 2016, 93, .	2.5	5

#	Article	IF	Citations
19	Field-induced exciton condensation in LaCoO3. Scientific Reports, 2016, 6, 30510.	3.3	42
20	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
21	Critical entropies and magnetic-phase-diagram analysis of ultracold three-component fermionic mixtures in optical lattices. Physical Review A, 2015, 92, .	2.5	17
22	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
23	Magnetic ordering of three-component ultracold fermionic mixtures in optical lattices. Physical Review A, 2014, 89, .	2.5	20
24	Magnetic phases of mass- and population-imbalanced ultracold fermionic mixtures in optical lattices. Physical Review A, 2013, 87, .	2.5	13
25	Advantages of Mass-Imbalanced Ultracold Fermionic Mixtures for Approaching Quantum Magnetism in Optical Lattices. Physical Review Letters, 2012, 109, 065301.	7.8	18
26	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
27	Propagation of relativistic charged particles in ultracold atomic gases with Bose-Einstein condensates. Physical Review A, 2011, 83, .	2.5	6
28	Magnetic field dependence and the possibility of filtering ultraslow light pulses in atomic gases with Boseâ€“Einstein condensates. Physica Scripta, 2010, T140, 014061.	2.5	0
29	Feasibility of using Bose-Einstein condensates for filtering optical pulses. Low Temperature Physics, 2010, 36, 671-676.	0.6	4
30	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
31	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
32	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
33	MICROSCOPIC APPROACH IN THE DESCRIPTION OF SLOWING OF ELECTROMAGNETIC PULSES IN BEC OF ALKALIS. , 2009, , .		0
34	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
35	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
36	On the influence of the internal structure of the atom on Boseâ€“Einstein condensationin an ideal gas of hydrogenlike atoms. Low Temperature Physics, 2007, 33, 30-36.	0.6	10

#	Article	IF	Citations
37	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