

# Piotr Magierski

## List of Publications by Year in descending order

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47  
papers

1,618  
citations

394421

19  
h-index

276875

41  
g-index

48  
all docs

48  
docs citations

48  
times ranked

828  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rotating quantum turbulence in the unitary Fermi gas. Physical Review A, 2022, 105, .	2.5	12
2	Pairing dynamics and solitonic excitations in collisions of medium-mass, identical nuclei. Physical Review C, 2022, 105, .	2.9	5
3	Local energy density functional for superfluid Fermi gases from effective field theory. Physical Review A, 2022, 106, .	2.5	3
4	Dynamics of spin-polarized impurity in ultracold Fermi gas. Physical Review A, 2021, 104, .	2.5	6
5	Properties of a quantum vortex in neutron matter at finite temperatures. Physical Review C, 2021, 104, .	2.9	7
6	Future of nuclear fission theory. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 113002.	3.6	105
7	Spin-polarized droplets in the unitary Fermi gas. Physical Review A, 2019, 100, .	2.5	18
8	Nuclear Reactions and Superfluid Time Dependent Density Functional Theory. Frontiers in Nuclear and Particle Physics, 2019, , 57-71.	0.0	6
9	Suppressed Solitonic Cascade in Spin-Imbalanced Superfluid Fermi Gas. Physical Review Letters, 2018, 120, 253002.	7.8	24
10	Novel Role of Superfluidity in Low-Energy Nuclear Reactions. Physical Review Letters, 2017, 119, 042501.	7.8	51
11	Nuclear Fission: from more phenomenology and adjusted parameters to more fundamental theory and increased predictive power. EPJ Web of Conferences, 2017, 163, 00007.	0.3	2
12	Solitonic excitations in collisions of superfluid nuclei a qualitatively new phenomenon distinct from the Josephson effect. EPJ Web of Conferences, 2017, 163, 00051.	0.3	6
13	Microscopic Calculations of Vortex-Nucleus Interaction in the Neutron Star Crust. , 2017, , .		0
14	Induced Fission of $^{240}\text{Pu}$ . , 2017, , .		0
15	Vortex Pinning and Dynamics in the Neutron Star Crust. Physical Review Letters, 2016, 117, 232701.	7.8	55
16	Induced Fission of $^{240}\text{Pu}$ within a Real-Time Microscopic Framework. Physical Review Letters, 2016, 116, 122504.	7.8	182
17	Cooper Pairing Above the Critical Temperature in a Unitary Fermi Gas. Physical Review Letters, 2013, 110, 090401.	7.8	47
18	Temperature evolution of the shear viscosity in a unitary Fermi gas. Physical Review A, 2013, 88, .	2.5	27

#	ARTICLE	IF	CITATIONS
19	DYNAMICS OF SUPERFLUID QUANTUM ATOMIC GASES AND ATOMIC NUCLEI WITHIN THE FRAMEWORK OF DENSITY FUNCTIONAL THEORY. , 2013, , .		0
20	Equation of state of the unitary Fermi gas: An update on lattice calculations. Physical Review A, 2012, 85, .	2.5	34
21	LINPRO: Linear inverse problem library for data contaminated by statistical noise. Computer Physics Communications, 2012, 183, 2264-2271.	7.5	7
22	Shear Viscosity of a Unitary Fermi Gas. Physical Review Letters, 2012, 109, 020406.	7.8	35
23	The Unitary Fermi Gas: From Monte Carlo to Density Functionals. Lecture Notes in Physics, 2012, , 305-373.	0.7	34
24	Real-Time Dynamics of Quantized Vortices in a Unitary Fermi Superfluid. Science, 2011, 332, 1288-1291.	12.6	69
25	Onset of a Pseudogap Regime in Ultracold Fermi Gases. Physical Review Letters, 2011, 107, 145304.	7.8	58
26	Quantum Monte Carlo study of dilute neutron matter at finite temperatures. Physical Review C, 2011, 83, .	2.9	13
27	SUPERFLUID PROPERTIES OF DILUTE NEUTRON MATTER. International Journal of Modern Physics E, 2011, 20, 569-575.	1.0	3
28	EFFECTIVE RANGE EXPANSION FOR THE INTERACTION DEFINED ON THE LATTICE. International Journal of Modern Physics E, 2010, 19, 781-786.	1.0	1
29	Nuclear tetrahedral configurations at spin zero. Physical Review C, 2009, 79, .	2.9	20
30	QUANTUM MONTE CARLO METHOD APPLIED TO STRONGLY CORRELATED DILUTE FERMI GASES WITH FINITE EFFECTIVE RANGE. International Journal of Modern Physics E, 2009, 18, 919-925.	1.0	5
31	Finite-Temperature Pairing Gap of a Unitary Fermi Gas by Quantum Monte Carlo Calculations. Physical Review Letters, 2009, 103, 210403.	7.8	84
32	Quantum Monte Carlo simulations of the BCS-BEC crossover at finite temperature. Physical Review A, 2008, 78, .	2.5	146
33	Neutron localization induced by the pairing field in inhomogeneous neutron matter. Physical Review C, 2007, 75, .	2.9	4
34	Thermodynamics of a Trapped Unitary Fermi Gas. Physical Review Letters, 2007, 99, 120401.	7.8	55
35	Scalar Casimir effect between Dirichlet spheres or a plate and a sphere. Physical Review D, 2006, 73, .	4.7	161
36	SPIN 1/2 FERMIONS IN THE UNITARY REGIME AT FINITE TEMPERATURE. , 2006, , .		0

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37	Spin1/2 Fermions in the Unitary Regime: A Superfluid of a New Type. Physical Review Letters, 2006, 96, 090404.	7.8	231
38	SPIN 1/2 FERMIONS IN THE UNITARY REGIME AT FINITE TEMPERATURE. International Journal of Modern Physics B, 2006, 20, 5165-5168.	2.0	8
39	IN-MEDIUM ION MASS RENORMALIZATION AND LATTICE VIBRATIONS IN THE NEUTRON STAR CRUST. International Journal of Modern Physics E, 2004, 13, 371-374.	1.0	12
40	Unexpected Goings-On in the Structure of a Neutron Star Crust. AIP Conference Proceedings, 2004, , .	0.4	2
41	UNEXPECTED GOINGS-ON IN THE STRUCTURE OF A NEUTRON STAR CRUST. , 2004, , .		0
42	NEUTRON STARS AND THE FERMIONIC CASIMIR EFFECT. International Journal of Modern Physics A, 2002, 17, 1059-1064.	1.5	6
43	Quantum corrections to the ground state energy of inhomogeneous neutron matter. Nuclear Physics A, 2001, 683, 695-712.	1.5	41
44	Neutron Stars and Quantum Billiards. , 2001, , .		0
45	BUBBLE NUCLEI, NEUTRON STARS AND QUANTUM BILLIARDS. , 2001, , .		0
46	Selfconsistent effective interactions and symmetry restoration. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 486, 54-60.	4.1	7
47	Shell Correction Energy for Bubble Nuclei. Physical Review Letters, 2000, 84, 412-415.	7.8	19