

Andrzej Ptok

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

511
citations

14
h-index

19
g-index

66
ext. papers

656
ext. citations

2.5
avg, IF

4.64
L-index

#	Paper	IF	Citations
60	Ab Initio Study of Chiral Phonons in Ternary YAlSi Compound. <i>Crystals</i> , 2022 , 12, 436	2.3	0
59	Electronic properties of BiSe doped by 3d transition metal (Mn, Fe, Co, or Ni) ions. <i>Journal of Physics Condensed Matter</i> , 2021 , 33, 065501	1.8	2
58	Majorana bound states in a superconducting Rashba nanowire in the presence of antiferromagnetic order. <i>Physical Review B</i> , 2021 , 103,	3.3	1
57	Electronic and dynamical properties of CeRh ₂ As ₂ : Role of Rh ₂ As ₂ layers and expected orbital order. <i>Physical Review B</i> , 2021 , 104,	3.3	2
56	Chiral phonons in the honeycomb sublattice of layered CoSn-like compounds. <i>Physical Review B</i> , 2021 , 104,	3.3	3
55	Identification of the Majorana edge modes in tight-binding systems based on the Krylov method. <i>Computer Physics Communications</i> , 2021 , 269, 108135	4.2	
54	Probing the chirality of one-dimensional Majorana edge states around a two-dimensional nanoflake in a superconductor. <i>Physical Review B</i> , 2020 , 102,	3.3	2
53	Superfluidity of fermionic pairs in a harmonic trap. Comparative studies: Local Density Approximation and Bogoliubov-de Gennes solutions. <i>Journal of Physics Communications</i> , 2020 , 4, 055006 ^{1.2}		1
52	Superconductivity of KFe ₂ As ₂ Under Pressure: Ab Initio Study of Tetragonal and Collapsed Tetragonal Phases. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020 , 33, 2347-2354	1.5	1
51	Lattice dynamics and polarization-dependent phonon damping in $\bar{\Gamma}$ -phase FeSi ₂ nanostructures. <i>Physical Review B</i> , 2020 , 101,	3.3	2
50	Majorana Bound State Leakage to Impurity in Su-Schrieffer-Heeger-Rashba Scenario. <i>Acta Physica Polonica A</i> , 2020 , 138, 673-680	0.6	
49	Majorana Bound States and Zero-Bias Conductance Peaks in Superconductor/Semiconductor Nanowire Devices. <i>Acta Physica Polonica A</i> , 2020 , 138, 681-685	0.6	0
48	Dynamics of Quantum Annealers: Ising Model with Transverse Field Study. <i>Acta Physica Polonica A</i> , 2020 , 138, 686-690	0.6	
47	First-principles study of the nontrivial topological phase in chains of 3d transition metals. <i>Physical Review B</i> , 2020 , 101,	3.3	3
46	Discovery of a low-temperature orthorhombic phase of the Cd ₂ Re ₂ O ₇ superconductor. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
45	Effects of Pair-Hopping Coupling on Properties of Multi-Band Iron-Based Superconductors. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	2
44	Delocalisation of Majorana quasiparticles in plaquette-nanowire hybrid system. <i>Scientific Reports</i> , 2019 , 9, 12933	4.9	8

43	Phase separations induced by a trapping potential in one-dimensional fermionic systems as a source of core-shell structures. <i>Scientific Reports</i> , 2019 , 9, 6719	4.9	5
42	Ab initio and nuclear inelastic scattering studies of Fe ₃ Si/GaAs heterostructures. <i>Physical Review B</i> , 2019 , 99,	3.3	4
41	Structural, electronic, and dynamical properties of the tetragonal and collapsed tetragonal phases of KFe ₂ As ₂ . <i>Physical Review B</i> , 2019 , 99,	3.3	6
40	Electrostatic formation of the Majorana quasiparticles in the quantum dot-nanoring structure. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 185302	1.8	8
39	Electronic and lattice properties of noncentrosymmetric superconductors ThTSi (T=Co, Ir, Ni, and Pt). <i>Physical Review B</i> , 2019 , 100,	3.3	7
38	Influence of long-range interaction on Majorana zero modes. <i>Physical Review B</i> , 2019 , 100,	3.3	6
37	Lifshitz Transitions Induced by Magnetic Field. <i>Acta Physica Polonica A</i> , 2019 , 135, 55-59	0.6	2
36	Bound States Induced by the Ferromagnetic Dimer in a Triangular Lattice. <i>Acta Physica Polonica A</i> , 2019 , 135, 60-63	0.6	1
35	Leakage of the Majorana Quasiparticles in Rashba Nanowire Deposited on Superconducting-Normal Substrate. <i>Acta Physica Polonica A</i> , 2019 , 135, 64-68	0.6	1
34	Counting defects in quantum computers with Graphics Processing Units. <i>Journal of Computational Physics</i> , 2018 , 366, 320-326	4.1	2
33	Quantum Phase Transition Induced by Magnetic Impurity. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 647-650	1.5	4
32	Phase Transitions in Quasi-One-Dimensional System with Unconventional Superconductivity. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 697-702	1.5	4
31	Quantum engineering of Majorana quasiparticles in one-dimensional optical lattices. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 355602	1.8	4
30	Superconducting monolayer deposited on substrate: Effects of the spin-orbit coupling induced by proximity effects. <i>Physical Review Materials</i> , 2018 , 2,	3.2	8
29	Interplay between pairing and correlations in spin-polarized bound states. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 1370-1380	3	0
28	Reentrant Fulde-Ferrell-Larkin-Ovchinnikov superfluidity in the honeycomb lattice. <i>Physical Review A</i> , 2018 , 97,	2.6	5
27	Magnetic Lifshitz transition and its consequences in multi-band iron-based superconductors. <i>Scientific Reports</i> , 2017 , 7, 41979	4.9	20
26	Influence of Finite Size Effects on the Fulde-Ferrell-Larkin-Ovchinnikov State. <i>Communications in Computational Physics</i> , 2017 , 21, 748-762	2.4	7

25	Critical behavior in one dimension: Unconventional pairing, phase separation, BEC-BCS crossover, and magnetic Lifshitz transition. <i>Physical Review A</i> , 2017 , 95,	2.6	11
24	Various Charge-Ordered States in the Extended Hubbard Model with On-Site Attraction in the Zero-Bandwidth Limit. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 109-115	1.5	4
23	Diversity of charge orderings in correlated systems. <i>Physical Review E</i> , 2017 , 96, 042104	2.4	13
22	Influence of the orbital effects on the Majorana quasi-particles in a nanowire. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 495301	1.8	12
21	The influence of the dimensionality of the system on the realization of unconventional Fulde-Ferrell-Larkin-Ovchinnikov pairing in ultra-cold Fermi gases. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 475901	1.8	14
20	Theab initiostudy of unconventional superconductivity in CeCoIn5and FeSe. <i>New Journal of Physics</i> , 2017 , 19, 063039	2.9	19
19	Yu-Shiba-Rusinov states of impurities in a triangular lattice of NbSe2 with spin-orbit coupling. <i>Physical Review B</i> , 2017 , 96,	3.3	16
18	Controlling the bound states in a quantum-dot hybrid nanowire. <i>Physical Review B</i> , 2017 , 96,	3.3	53
17	Specific Heat Study of Fulde-Ferrell-Larkin-Ovchinnikov Superconducting States in Multibands Materials - Iron-Based Systems. <i>Acta Physica Polonica A</i> , 2016 , 130, 507-510	0.6	
16	Phase Separation of Superconducting Phases in the Penson&olbHubbard Model. <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 044708	1.5	14
15	Change of the sign of superconducting intraband order parameters induced by interband pair hopping interaction in iron-based high-temperature superconductors. <i>Superconductor Science and Technology</i> , 2015 , 28, 045010	3.1	16
14	GPU-based acceleration of free energy calculations in solid state physics. <i>Computer Physics Communications</i> , 2015 , 192, 220-227	4.2	17
13	Probe-type of superconductivity by impurity in materials with short coherence length: the-wave and&wave phases study. <i>Superconductor Science and Technology</i> , 2015 , 28, 045022	3.1	12
12	Multiple phase transitions in Pauli-limited iron-based superconductors. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 482001	1.8	16
11	Energetics of an rf SQUID Coupled to Two Thermal Reservoirs. <i>PLoS ONE</i> , 2015 , 10, e0143912	3.7	1
10	Unconventional Superconductivity in Iron-Based Superconductors in a Three-Band Model. <i>Acta Physica Polonica A</i> , 2014 , 126, A-16-A-20	0.6	5
9	Influence of s _B symmetry on unconventional superconductivity in pnictides above the Pauli limit □ two-band model study. <i>European Physical Journal B</i> , 2014 , 87, 1	1.2	24
8	The FuldeFerrellLarkinOvchinnikov State in Pnictides. <i>Journal of Low Temperature Physics</i> , 2013 , 172, 226-233	1.3	39

7	The Fulde-Ferrell-Larkin-Ovchinnikov State in Quantum Rings. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012 , 25, 1843-1847	1.5	9
6	Squeezing of magnetic flux in nanorings. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 495701	1.8	
5	Coexistence of superconductivity and incommensurate magnetic order. <i>Physical Review B</i> , 2011 , 84,	3.3	20
4	The Fulde-Ferrell-Larkin-Ovchinnikov Superconductivity in Disordered Systems. <i>Acta Physica Polonica A</i> , 2010 , 118, 420-422	0.6	15
3	Mutual enhancement of magnetism and Fulde-Ferrell-Larkin-Ovchinnikov superconductivity in CeCoIn ₅ . <i>Physical Review B</i> , 2009 , 80,	3.3	23
2	The Fulde-Ferrell-Larkin-Ovchinnikov phase in the presence of pair hopping interaction. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 295601	1.8	29
1	Superconductivity in the Penson-Kolb Model on a Triangular Lattice. <i>Acta Physica Polonica A</i> , 2008 , 114, 209-212	0.6	5