Victor Khodel

List of Publications by Year
in descending order

58	758	471509 17	552781 26
papers	citations	h-index	g-index

58	58	58	144
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Topology of the Fermi surface beyond the quantum critical point. Physical Review B, 2008, 78, .	3.2	95
2	Anomalous low-temperature behavior of strongly correlated Fermi systems. Physical Review B, 2005, 71, .	3.2	80
3	Curie Law, Entropy Excess, and Superconductivity in Heavy Fermion Metals and Other Strongly Interacting Fermi Liquids. Physical Review Letters, 2005, 95, 236402.	7.8	46
4	Common quantum phase transition in quasicrystals and heavy-fermion metals. Physical Review B, 2013, 87, .	3.2	41
5	Magnetic field dependence of the residual resistivity of the heavy-fermion metal CeCoIn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 86, .	3.2	38
6	Merging of Single-Particle Levels and Non-Fermi-Liquid Behavior of Finite Fermi Systems. Physical Review Letters, 2007, 98, 216404.	7.8	29
7	Adaptation of the Landau-Migdal quasiparticle pattern to strongly correlated Fermi systems. Physics of Atomic Nuclei, 2011, 74, 1237-1266.	0.4	29
8	Superfluid Phase Transitions in Dense Neutron Matter. Physical Review Letters, 2001, 87, 031103.	7.8	24
9	Merging of Landau Levels in a Strongly Interacting Two-Dimensional Electron System in Silicon. Physical Review Letters, 2014, 112, 186402.	7.8	24
10	Interplay between fermion condensation and density-wave instability. JETP Letters, 1997, 65, 253-258.	1.4	23
11	Two scenarios of the quantum critical point. JETP Letters, 2008, 86, 721-726.	1.4	23
12	Rearrangement of the Fermi Surface of Dense Neutron Matter and the Direct Urca Cooling of Neutron Stars. Astrophysical Journal, 2000, 533, L127-L130.	4.5	22
13	Second wind of the Dulong-Petit law at a quantum critical point. JETP Letters, 2010, 92, 532-536.	1.4	22
14	Quasiparticles in the theory of fermion condensation. JETP Letters, 1996, 63, 752-757.	1.4	21
15	Quasiclassical physics and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>T</mml:mi></mml:math>-linear resistivity in both strongly correlated and ordinary metals. Physical Review B, 2013, 88, .	3.2	21
16	Occurrence of flat bands in strongly correlated Fermi systems and high-T c superconductivity of electron-doped compounds. JETP Letters, 2015, 101, 413-418.	1.4	19
17	Low-temperature phase transitions in systems with fermion condensate. JETP Letters, 2007, 85, 404-409.	1.4	18
18	General properties of phase diagrams of heavy-fermion metals. Europhysics Letters, 2014, 106, 37001.	2.0	17

#	Article	IF	Citations
19	Damping effects and the metal-insulator transition in a two-dimensional electron gas. JETP Letters, 2005, 81, 315-320.	1.4	14
20	Microscopic theory of a strongly correlated two-dimensional electron gas. JETP Letters, 2012, 96, 192-202.	1.4	12
21	Topological basis for understanding the behavior of the heavy-fermion metalÎ²â^'YbAlB4under application of magnetic field and pressure. Physical Review B, 2016, 93, .	3.2	12
22	Nature of the quantum critical point as disclosed by extraordinary behavior of magnetotransport and the lorentz number in the heavy-fermion metal YbRh2Si2. JETP Letters, 2012, 96, 397-404.	1.4	10
23	Topological crossovers near a quantum critical point. JETP Letters, 2011, 94, 73-80.	1.4	9
24	Topological disorder triggered by interaction-induced flattening of electron spectra in solids. Physical Review B, 2020, 102, .	3.2	9
25	Contrasting different scenarios for the quantum critical point. JETP Letters, 2010, 90, 628-632.	1.4	8
26	Impact of spin-isospin fluctuations on single-particle degrees of freedom in dense neutron matter. Physics of Atomic Nuclei, 2001, 64, 619-626.	0.4	7
27	Mechanisms driving alteration of the Landau state in the vicinity of a second-order phase transition. Journal of Physics Condensed Matter, 2004, 16, 6431-6444.	1.8	6
28	Thermodynamic properties of Fermi systems with flat single-particle spectra. Europhysics Letters, 2005, 72, 256-262.	2.0	6
29	Structure of the ground state of a nonsuperfluid dense quark-gluon plasma. Physics of Atomic Nuclei, 2009, 72, 1382-1389.	0.4	6
30	Strongly correlated Fermi systems as a new state of matter. Frontiers of Physics, 2016, 11, 1.	5.0	6
31	Theory of Fermi Liquid with Flat Bands. Journal of Low Temperature Physics, 2018, 191, 14-34.	1.4	6
32	Phase diagram of strongly correlated Fermi systems. JETP Letters, 2000, 72, 126-130.	1.4	5
33	Conventional BCS, unconventional BCS, and non-BCS hidden dineutron phases in neutron matter. Physics of Atomic Nuclei, 2014, 77, 1145-1156.	0.4	5
34	Role of a fermion condensate in the structure of high-temperature pairing in cuprates. JETP Letters, 2017, 105, 267-272.	1.4	5
35	The widths of single-particle states of anisotropic, strongly correlated electron systems in solids. JETP Letters, 1999, 70, 772-779.	1.4	4
36	DISSECTING AND TESTING COLLECTIVE AND TOPOLOGICAL SCENARIOS FOR THE QUANTUM CRITICAL POINT. International Journal of Modern Physics B, 2010, 24, 4901-4914.	2.0	4

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37	Fermi liquid without quasiparticles and the electron spectral functions of two-dimensional high-Tc superconductors. Physica B: Condensed Matter, 2002, 312-313, 506-508.	2.7	3
38	Merging of single-particle levels in finite Fermi systems. JETP Letters, 2007, 84, 588-592.	1.4	3
39	Non-Fermi-liquid behavior of strongly correlated Fermi systems explained by the Fermi-liquid approach. Physica B: Condensed Matter, 2008, 403, 1227-1229.	2.7	3
40	Spontaneous breaking of fourfold rotational symmetry in two-dimensional electron systems as a topological phase transition. Physical Review B, 2010, 82, .	3.2	3
41	Electron spectral functions of two-dimensional high-T c superconductors in the model of fermion condensation. JETP Letters, 2001, 74, 502-506.	1.4	2
42	Spin degrees of freedom and flattening of the spectra of single-particle excitations in strongly correlated Fermi systems. Physics of Atomic Nuclei, 2003, 66, 1871-1877.	0.4	2
43	Flattening of single-particle spectra in strongly correlated electron systems and the violation of the Wiedemann-Franz law. JETP Letters, 2008, 86, 772-778.	1.4	2
44	Spontaneous breaking of four-fold rotational symmetry in two-dimensional electronic systems explained as a continuous topological transition. JETP Letters, 2010, 91, 529-534.	1.4	2
45	Fate of the Wiedemannâ€“Franz Law near Quantum Critical Points of Electron Systems in Solids. JETP Letters, 2015, 102, 826-833.	1.4	2
46	Scaling behavior of the thermopower of the archetypal heavy-fermion metal YbRh2Si2. Frontiers of Physics, 2016, 11, 1.	5.0	2
47	Topological Scenario for High-Temperature Superconductivity in Cuprates. JETP Letters, 2018, 108, 260-269.	1.4	2
48	NON-FERMI-LIQUID BEHAVIOR FROM THE FERMI-LIQUID APPROACH. International Journal of Modern Physics B, 2007, 21, 2077-2090.	2.0	1
49	Low-temperature collapse of the Fermi surface and phase transitions in correlated Fermi systems. JETP Letters, 2011, 94, 653-659.	1.4	1
50	Theory of fermion condensation as an analog of the liquid-drop theory of atomic nuclei. Physics of Atomic Nuclei, 2015, 78, 20-23.	0.4	1
51	Occurrence of a Mott-like gap in single-particle spectra of electron systems possessing flat bands. JETP Letters, 2016, 103, 702-707.	1.4	1
52	Toward the theory of fermionic condensation. JETP Letters, 2017, 105, 531-536.	1.4	1
53	Metamorphoses of Electron Systems Hosting a Fermion Condensate. JETP Letters, 2020, 111, 96-103.	1.4	1
54	CLASSICAL BEHAVIOR OF TWO-DIMENSIONAL LIQUID ³He NEAR A QUANTUM CRITICAL POINT. International Journal of Modern Physics B, 2013, 27, 1347005.	2.0	0

#	Article	IF	Citations
55	MEMORIES OF A. B. MIGDAL. , 2013, , 88-100.		0
56	Fermion Condensation: Theory and Experiment. Physics of Atomic Nuclei, 2020, 83, 101-117.	0.4	0
57	TOPOLOGICAL PHASE TRANSITIONS IN STRONGLY CORRELATED FERMI SYSTEMS. , 2009, , .		0
58	DISSECTING AND TESTING COLLECTIVE AND TOPOLOGICAL SCENARIOS FOR THE QUANTUM CRITICAL POINT. , 2011, , .		0