

Victor M Yakovenko

List of Publications by Year in descending order

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88
papers

4,150
citations

156536

32
h-index

129628

63
g-index

90
all docs

90
docs citations

90
times ranked

2818
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical control of topological memory based on orbital magnetization. <i>Physical Review B</i> , 2022, 105, .	1.1	6
2	Physics-inspired analysis of the two-class income distribution in the USA in 1983â€“2018. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210162.	1.6	11
3	Statistical Mechanics Approach toâ€Econophysics. , 2022, , 635-668.		0
4	Historical evolution of global inequality in carbon emissions and footprints versus redistributive scenarios. <i>Journal of Cleaner Production</i> , 2020, 264, 121420.	4.6	39
5	Loop Currents and Anomalous Hall Effect from Time-Reversal Symmetry-Breaking Superconductivity on the Honeycomb Lattice. <i>Physical Review X</i> , 2019, 9, .	2.8	21
6	Anomalous Low-Temperature Enhancement of Supercurrent in Topological-Insulator Nanoribbon Josephson Junctions: Evidence for Low-Energy Andreev Bound States. <i>Physical Review Letters</i> , 2019, 122, 047003.	2.9	30
7	Perfect Andreev reflection due to the Klein paradox in a topological superconducting state. <i>Nature</i> , 2019, 570, 344-348.	13.7	38
8	Exponential structure of income inequality: evidence from 67 countries. <i>Journal of Economic Interaction and Coordination</i> , 2019, 14, 345-376.	0.4	41
9	A model for metastable magnetism in the hidden-order phase of URu ₂ Si ₂ . <i>Annals of Physics</i> , 2018, 388, 398-407.	1.0	3
10	Time-reversal symmetry-breaking superconductivity in epitaxial bismuth/nickel bilayers. <i>Science Advances</i> , 2017, 3, e1602579.	4.7	71
11	Monetary economics from econophysics perspective. <i>European Physical Journal: Special Topics</i> , 2016, 225, 3313-3335.	1.2	32
12	Calculation for polar Kerr effect in high-temperature cuprate superconductors. <i>Physical Review B</i> , 2016, 93, .	1.1	5
13	Modeling Sustainability: Population, Inequality, Consumption, and Bidirectional Coupling of the Earth and Human Systems. <i>National Science Review</i> , 2016, 3, nww081.	4.6	96
14	Tilted loop currents in cuprate superconductors. <i>Physica B: Condensed Matter</i> , 2015, 460, 159-164.	1.3	27
15	Effects of a tilted magnetic field in a Dirac double layer. <i>Physical Review B</i> , 2015, 91, .	1.1	12
16	Proposed Chiral Texture of the Magnetic Moments of Unit-Cell Loop Currents in the Pseudogap Phase of Cuprate Superconductors. <i>Physical Review Letters</i> , 2013, 111, 047005.	2.9	26
17	Global Inequality in Energy Consumption from 1980 to 2010. <i>Entropy</i> , 2013, 15, 5565-5579.	1.1	67
18	Spin-polarized tunneling current through a thin film of a topological insulator in a parallel magnetic field. <i>Physical Review B</i> , 2012, 86, .	1.1	28

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19	Shockley model description of surface states in topological insulators. Physical Review B, 2012, 86, .	1.1	102
20	Novel method for photovoltaic energy conversion using surface acoustic waves in piezoelectric semiconductors. Physica B: Condensed Matter, 2012, 407, 1969-1972.	1.3	16
21	Spectroscopy of the soliton lattice formation in quasi-one-dimensional fermionic superfluids with population imbalance. Physical Review A, 2011, 84, .	1.0	30
22	Universal patterns of inequality. New Journal of Physics, 2010, 12, 075032.	1.2	99
23	Energy spectrum of graphene multilayers in a parallel magnetic field. Physical Review B, 2010, 82, .	1.1	27
24	Frequency and temperature dependence of the anomalous ac Hall conductivity in a chiral $\langle \mathbf{p} \times \mathbf{x} \rangle$ with impurities. Physical Review B, 2009, 80, .	1.1	65
25	High-efficiency photovoltaic energy conversion using surface acoustic waves in piezoelectric semiconductors. , 2009, , .		0
26	Econophysics, Statistical Mechanics Approach to. , 2009, , 247-273.		1
27	<i>Colloquium</i> : Statistical mechanics of money, wealth, and income. Reviews of Modern Physics, 2009, 81, 1703-1725.	16.4	397
28	Time-Reversal Symmetry Breaking by a $\langle \mathbf{p} \times \mathbf{x} \rangle$ Density-Wave State in Underdoped Cuprate Superconductors. Physical Review Letters, 2008, 100, 217004.	2.9	50
29	Spontaneous Spin Accumulation in Singlet-Triplet Josephson Junctions. Physical Review Letters, 2008, 101, 187003.	2.9	29
30	Gauge-invariant electromagnetic response of a chiral $\langle \mathbf{p} \times \mathbf{x} \rangle$ Physical Review B, 2008, 77, .	1.1	52
31	Anomalous Nernst effect from a chiral $\langle \mathbf{p} \times \mathbf{x} \rangle$ -density-wave state in underdoped cuprate superconductors. Physical Review B, 2008, 78, .	1.1	38
32	Angular magnetoresistance oscillations in quasi-one-dimensional organic conductors in the presence of a crystal superstructure. Physical Review B, 2008, 78, .	1.1	4
33	Theory of the High-Frequency Chiral Optical Response of $\langle \mathbf{p} \times \mathbf{x} \rangle$ Superconductor. Physical Review Letters, 2007, 98, 087003.	2.9	30
34	Stochastic volatility of financial markets as the fluctuating rate of trading: An empirical study. Physica A: Statistical Mechanics and Its Applications, 2007, 382, 278-285.	1.2	27
35	Angular Magnetoresistance Oscillations in Q1D as Interlayer Aharonov-Bohm Interference. Journal of Low Temperature Physics, 2007, 142, 495-498.	0.6	0
36	A study of the personal income distribution in Australia. Physica A: Statistical Mechanics and Its Applications, 2006, 370, 54-59.	1.2	80

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37	Angular magnetoresistance oscillations in bilayers in tilted magnetic fields. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 128-131.	1.3	17
38	Angular magnetoresistance oscillations in Q1D as interlayer aharonov-bohm interference. Journal of Low Temperature Physics, 2006, 142, 491-494.	0.6	0
39	Interlayer Aharonov-Bohm Interference in Tilted Magnetic Fields in Quasi-One-Dimensional Organic Conductors. Physical Review Letters, 2006, 96, 037001.	2.9	32
40	Temporal evolution of the "thermal" and "superthermal" income classes in the USA during 1983-2001. Europhysics Letters, 2005, 69, 304-310.	0.7	143
41	Dispersion instability in strongly interacting electron liquids. Physical Review B, 2005, 71, .	1.1	15
42	Curie Law, Entropy Excess, and Superconductivity in Heavy Fermion Metals and Other Strongly Interacting Fermi Liquids. Physical Review Letters, 2005, 95, 236402.	2.9	46
43	Quantum Critical Behavior Near a Density-Wave Instability in an Isotropic Fermi Liquid. Physical Review Letters, 2005, 94, 046404.	2.9	18
44	Two-class Structure of Income Distribution in the USA: Exponential Bulk and Power-law Tail. New Economic Windows, 2005, , 15-23.	1.0	42
45	Hot spots and transition from d-wave to another pairing symmetry in the electron-doped cuprate superconductors. Physical Review B, 2004, 69, .	1.1	22
46	Exponential distribution of financial returns at mesoscopic time lags: a new stylized fact. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 227-235.	1.2	112
47	Unconventional superconductivity in two-dimensional electron systems with long-range correlations. Physics Reports, 2004, 391, 123-156.	10.3	13
48	Comparison between the probability distribution of returns in the Heston model and empirical data for stock indexes. Physica A: Statistical Mechanics and Its Applications, 2003, 324, 303-310.	1.2	69
49	How to detect edge electron states in (TMTSF) ₂ X and Sr ₂ RuO ₄ experimentally. Synthetic Metals, 2003, 133-134, 27-31.	2.1	20
50	Statistical Mechanics of Money, Income, and Wealth: A Short Survey. AIP Conference Proceedings, 2003, , .	0.3	21
51	Spontaneous Formation of a "Soliton" in a Superconducting Wire with an Odd Number of Electrons. Physical Review Letters, 2002, 89, 017002.	2.9	14
52	Edge states and determination of pairing symmetry in superconducting Sr ₂ RuO ₄ . Physical Review B, 2002, 65, .	1.1	32
53	Probability distribution of returns in the Heston model with stochastic volatility*. Quantitative Finance, 2002, 2, 443-453.	0.9	164
54	Probability distribution of returns in the Heston model with stochastic volatility*. Quantitative Finance, 2002, 2, 443-453.	0.9	144

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55	Comparison of experimental data and theoretical calculations for electrical resistivity and Hall coefficient in (TMTSF) ₂ PF ₆ . <i>Synthetic Metals</i> , 2001, 120, 1083-1084.	2.1	8
56	Midgap edge states and pairing symmetry of quasi-one-dimensional organic superconductors. <i>Physical Review B</i> , 2001, 63, .	1.1	262
57	Exponential and power-law probability distributions of wealth and income in the United Kingdom and the United States. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 299, 213-221.	1.2	453
58	Edge Electron States for Quasi-One-Dimensional Organic Conductors in the Magnetic-Field-Induced Spin-Density-Wave Phases. <i>Physical Review Letters</i> , 2001, 86, 1094-1097.	2.9	13
59	Hopf invariant for long-wavelength skyrmions in quantum Hall systems for integer and fractional fillings. <i>Physical Review B</i> , 2000, 62, 4586-4604.	1.1	8
60	Collective modes in a system with two spin-density waves: The Ribault phase of quasi-one-dimensional organic conductors. <i>Physical Review B</i> , 2000, 61, 12888-12908.	1.1	2
61	GIBBS DISTRIBUTION OF MONEY: A COMPUTER SIMULATION. <i>International Journal of Theoretical and Applied Finance</i> , 2000, 03, 597-597.	0.2	1
62	Theory of angular magnetoresistance oscillations in Tl ₂ Ba ₂ CuO ₆ . <i>Physical Review B</i> , 1999, 60, 6312-6315.	1.1	16
63	Magnetic-field-induced Luttinger insulator state in quasi-one-dimensional conductors. <i>Synthetic Metals</i> , 1999, 103, 2028-2029.	2.1	0
64	Temperature dependence of the normal-state Hall coefficient of a quasi-one-dimensional metal. <i>Synthetic Metals</i> , 1999, 103, 2202-2205.	2.1	13
65	Edge and bulk electron states in a quasi-one-dimensional metal in a magnetic field: The semi-infinite Wannier-Stark ladder. <i>Physical Review B</i> , 1998, 58, 8002-8008.	1.1	14
66	Phenomenological interpretations of the ac Hall effect in the normal state of YBa ₂ Cu ₃ O ₇ . <i>Physical Review B</i> , 1998, 57, 3089-3098.	1.1	47
67	Influence of magnetic-field-induced spin-density-wave motion and finite temperature on the quantum Hall effect in quasi-one-dimensional conductors: A quantum field theory. <i>Physical Review B</i> , 1998, 58, 10648-10664.	1.1	11
68	Sign Reversals of the Quantum Hall Effect and Helicoidal Magnetic-Field-Induced Spin-Density Waves in Quasi-One-Dimensional Organic Conductors. <i>Physical Review Letters</i> , 1998, 80, 3618-3621.	2.9	20
69	Hopf Term for a Two-Dimensional Electron Gas. <i>Physical Review Letters</i> , 1997, 79, 3791-3791.	2.9	44
70	Parquet solution for a flat Fermi surface. <i>Physical Review B</i> , 1997, 55, 3200-3215.	1.1	112
71	Temperature evolution of the quantum hall effect in quasi-one-dimensional organic conductors. <i>Synthetic Metals</i> , 1997, 85, 1609-1612.	2.1	2
72	Quantum Hall Effect in Quasi-One-Dimensional Conductors: The Roles of Moving FISDW, Finite Temperature, and Edge States. <i>Journal De Physique</i> , I, 1996, 6, 1917-1937.	1.2	17

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73	“Hot spots” in quasi-one-dimensional organic conductors. <i>Synthetic Metals</i> , 1995, 70, 1005-1008.	2.1	13
74	Neutron Scattering and Superconducting Order Parameter in YBa ₂ Cu ₃ O ₇ . <i>Physical Review Letters</i> , 1995, 75, 4134-4137.	2.9	99
75	Quantized Hall conductance and its sign reversal in field-induced spin-density waves. <i>Physical Review B</i> , 1994, 50, 921-931.	1.1	22
76	Quantum Hall effect in the field-induced spin density wave states. <i>Journal of Superconductivity and Novel Magnetism</i> , 1994, 7, 757-762.	0.5	2
77	Hall conductivity of a moving magnetic-field-induced spin-density wave. <i>Journal of Superconductivity and Novel Magnetism</i> , 1994, 7, 683-685.	0.5	2
78	Metals in a high magnetic field: A universality class of marginal Fermi liquids. <i>Physical Review B</i> , 1993, 47, 8851-8857.	1.1	55
79	Magnetic oscillations and crystal superstructure. <i>Physical Review Letters</i> , 1993, 70, 2657-2657.	2.9	4
80	Theory of Thermodynamic Magnetic Oscillations in Quasi-One-Dimensional Conductors. <i>Physical Review Letters</i> , 1993, 70, 519-519.	2.9	2
81	Theory of thermodynamic magnetic oscillations in quasi-one-dimensional conductors. <i>Physical Review Letters</i> , 1992, 68, 3607-3610.	2.9	53
82	Theory of the quantum hall effect in quasi-one-dimensional conductors. <i>Synthetic Metals</i> , 1991, 43, 3389-3392.	2.1	1
83	Quantum Hall effect in quasi-one-dimensional conductors. <i>Physical Review B</i> , 1991, 43, 11353-11366.	1.1	78
84	Chern-Simons Terms and Field in Haldane's Model for the Quantum Hall Effect without Landau Levels. <i>Physical Review Letters</i> , 1990, 65, 251-254.	2.9	60
85	Fractional charge, spin and statistics of solitons in superfluid ³ He film. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 5263-5274.	0.7	142
86	Comment on "Extreme Quantum Limit in a Quasi Two-Dimensional Organic Conductor". <i>Physical Review Letters</i> , 1988, 61, 2276-2276.	2.9	13
87	A Theory of Magnetic-Field-Induced Phase Transitions in Quasi-One-Dimensional Conductors. <i>Europhysics Letters</i> , 1987, 3, 1041-1047.	0.7	8
88	On the possible superfluidity of bipolarons on the junction surface. <i>Solid State Communications</i> , 1985, 55, 187-191.	0.9	18