

Leo Radzihovsky

List of Publications by Year in descending order

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70
papers

3,885
citations

147566

31
h-index

118652

62
g-index

70
all docs

70
docs citations

70
times ranked

2329
citing authors

#	ARTICLE	IF	CITATIONS
1	Renormalization group in quantum critical theories with Harris-marginal disorder. <i>Physical Review D</i> , 2022, 105, .	1.6	2
2	Piezosuperconductivity: Novel effects in noncentrosymmetric superconductors. <i>Physical Review B</i> , 2022, 105, .	1.1	2
3	Fracton phases via exotic higher-form symmetry-breaking. <i>Annals of Physics</i> , 2021, 424, 168360.	1.0	37
4	Fractonic gauge theory of smectics. <i>Annals of Physics</i> , 2021, 435, 168509.	1.0	13
5	Thermal Buckling Transition of Crystalline Membranes in a Field. <i>Physical Review Letters</i> , 2021, 127, 015702.	2.9	7
6	Smectic vortex glass. <i>Physical Review B</i> , 2021, 104, .	1.1	2
7	Finite-temperature spectroscopy of dirty helical Luttinger liquids. <i>Physical Review B</i> , 2020, 102, .	1.1	2
8	First-principles experimental demonstration of ferroelectricity in a thermotropic nematic liquid crystal: Polar domains and striking electro-optics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14021-14031.	3.3	174
9	The Physics of Pair-Density Waves: Cuprate Superconductors and Beyond. <i>Annual Review of Condensed Matter Physics</i> , 2020, 11, 231-270.	5.2	209
10	Fractons from Vector Gauge Theory. <i>Physical Review Letters</i> , 2020, 124, 050402.	2.9	41
11	Anomalous localization at the boundary of an interacting topological insulator. <i>Physical Review B</i> , 2020, 101, .	1.1	9
12	Quantum Smectic Gauge Theory. <i>Physical Review Letters</i> , 2020, 125, 267601.	2.9	23
13	Crystal-to-fracton tensor gauge theory dualities. <i>Physical Review B</i> , 2019, 100, .	1.1	38
14	Two-dimensional melting via sine-Gordon duality. <i>Physical Review B</i> , 2019, 100, .	1.1	19
15	Quantum indistinguishability in chemical reactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4551-E4558.	3.3	13
16	Anomalous elasticity, fluctuations and disorder in elastic membranes. <i>Annals of Physics</i> , 2018, 392, 340-410.	1.0	73
17	Symmetry-Enriched Fracton Phases from Supersolid Duality. <i>Physical Review Letters</i> , 2018, 121, 235301.	2.9	49
18	Fracton-Elasticity Duality. <i>Physical Review Letters</i> , 2018, 120, 195301.	2.9	166

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19	Gapless insulating edges of dirty interacting topological insulators. Physical Review B, 2018, 98, .	1.1	23
20	Topological order, symmetry, and Hall response of two-dimensional spin-singlet superconductors. Physical Review B, 2017, 95, .	1.1	17
21	Ferromagnetic transition in a one-dimensional spin-orbit-coupled metal and its mapping to a critical point in smectic liquid crystals. Physical Review B, 2017, 96, .	1.1	9
22	Multiply Quantized Vortices in Fermionic Superfluids: Angular Momentum, Unpaired Fermions, and Spectral Asymmetry. Physical Review Letters, 2017, 119, 067003.	2.9	12
23	Single-particle excitations in disordered Weyl fluids. Physical Review B, 2017, 95, .	1.1	40
24	Postquench dynamics and prethermalization in a resonant Bose gas. Physical Review A, 2016, 93, .	1.0	24
25	Chiral \pm superfluid on a sphere. Physical Review B, 2016, 93, .	1.1	10
26	Quench dynamics of the spin-imbalanced Fermi-Hubbard model in one dimension. Physical Review A, 2016, 94, .	1.0	11
27	Anomalous Energetics and Dynamics of Moving Vortices. Physical Review Letters, 2015, 115, 247801.	2.9	16
28	Galilean invariance at quantum Hall edge. Physical Review B, 2015, 91, .	1.1	19
29	Freezing of an unconventional two-dimensional plasma. Physical Review B, 2013, 87, .	1.1	5
30	Quench dynamics of a strongly interacting resonant Bose gas. Physical Review A, 2013, 88, .	1.0	39
31	Nonlinear smectic elasticity of helical state in cholesteric liquid crystals and helimagnets. Physical Review E, 2011, 83, 051701.	0.8	32
32	Fluctuations and phase transitions in Larkin-Ovchinnikov liquid-crystal states of a population-imbalanced resonant Fermi gas. Physical Review A, 2011, 84, .	1.0	103
33	Imbalanced Feshbach-resonant Fermi gases. Reports on Progress in Physics, 2010, 73, 076501.	8.1	168
34	Liquid Crystal Cells with "Dirty" Substrates. Physical Review Letters, 2009, 103, 167802.	2.9	17
35	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Wave Resonant Bose Gas: A Finite-Momentum Spinor Superfluid. Physical Review Letters, 2009, 103, 095302.	2.9	31
36	Conical soliton escape into a third dimension of a surface vortex. Physical Review E, 2009, 79, 041702.	0.8	0

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37	Quantum Liquid Crystals in an Imbalanced Fermi Gas: Fluctuations and Fractional Vortices in Larkin-Ovchinnikov States. <i>Physical Review Letters</i> , 2009, 103, 010404.	2.9	127
38	Superfluidity and phase transitions in a resonant Bose gas. <i>Annals of Physics</i> , 2008, 323, 2376-2451.	1.0	65
39	Nonlinear elasticity, fluctuations and heterogeneity of nematic elastomers. <i>Annals of Physics</i> , 2008, 323, 105-203.	1.0	18
40	Radio-frequency spectroscopy of a strongly imbalanced Feshbach-resonant Fermi gas. <i>Physical Review A</i> , 2008, 78, .	1.0	38
41	Comment on "Superfluid stability in the BEC-BCS crossover". <i>Physical Review B</i> , 2007, 75, .	1.1	22
42	BEC-BCS crossover, phase transitions and phase separation in polarized resonantly-paired superfluids. <i>Annals of Physics</i> , 2007, 322, 1790-1924.	1.0	196
43	Large-Expansion for unitary superfluid Fermi gases. <i>Physical Review A</i> , 2007, 75, .	1.0	94
44	BEC-BCS Crossover in "Magnetized" Feshbach-Resonantly Paired Superfluids. <i>Physical Review Letters</i> , 2006, 96, 060401.	2.9	298
45	Thermal depinning and transverse-field tilting transitions in a planar vortex array pinned by a columnar defect. <i>Physical Review B</i> , 2006, 73, .	1.1	11
46	Phases and transitions in phantom nematic elastomer membranes. <i>Physical Review E</i> , 2005, 71, 011802.	0.8	7
47	Superfluid Transitions in Bosonic Atom-Molecule Mixtures near a Feshbach Resonance. <i>Physical Review Letters</i> , 2004, 92, 160402.	2.9	105
48	ANISOTROPIC AND HETEROGENEOUS POLYMERIZED MEMBRANES. , 2004, , 275-321.		3
49	Critical currents of ideal quantum Hall superfluids. <i>Physical Review B</i> , 2003, 68, .	1.1	30
50	Velocity-force characteristics of an interface driven through a periodic potential. <i>Physical Review B</i> , 2003, 67, .	1.1	11
51	Universal Elasticity and Fluctuations of Nematic Gels. <i>Physical Review Letters</i> , 2003, 90, 168301.	2.9	25
52	Theory of Quantum Hall Nematics. <i>Physical Review Letters</i> , 2002, 88, 216802.	2.9	48
53	Universality and Scaling in the Disorder of a Smectic Liquid Crystal. <i>Science</i> , 2001, 294, 1074-1079.	6.0	187
54	Novel phases and reentrant melting of two-dimensional colloidal crystals. <i>Physical Review E</i> , 2001, 63, 031503.	0.8	60

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55	Soft Anharmonic Vortex Glass in Ferromagnetic Superconductors. Physical Review Letters, 2001, 87, .	2.9	22
56	A Discotic Disguised as a Smectic: A Hybrid Columnar Bragg Glass. Physical Review Letters, 2000, 85, 4309-4312.	2.9	17
57	Two New Topologically Ordered Glass Phases of Smectics Confined in Anisotropic Random Media. Physical Review Letters, 1999, 83, 1363-1366.	2.9	27
58	Smectic liquid crystals in random environments. Physical Review B, 1999, 60, 206-257.	1.1	116
59	Light-Induced Melting of Colloidal Crystals in Two Dimensions. Physical Review Letters, 1999, 83, 2977-2980.	2.9	79
60	Nonequilibrium steady states of driven periodic media. Physical Review B, 1998, 57, 7705-7739.	1.1	192
61	Elasticity, shape fluctuations, and phase transitions in the new tubule phase of anisotropic tethered membranes. Physical Review E, 1998, 57, 1832-1863.	0.8	35
62	Comment on "Moving Glass Phase of Driven Lattices". Physical Review Letters, 1997, 78, 751-751.	2.9	69
63	Longitudinal current dissipation in Bose-glass superconductors. Physical Review B, 1996, 54, R6845-R6848.	1.1	21
64	Continuous 3D Freezing Transition in Layered Superconductors. Physical Review Letters, 1996, 76, 3416-3419.	2.9	15
65	A New Phase of Tethered Membranes: Tubules. Physical Review Letters, 1995, 75, 4752-4755.	2.9	74
66	Flat glassy phases and wrinkling of polymerized membranes with long-range disorder. Physical Review B, 1993, 48, 3548-3551.	1.1	31
67	Grain-boundary instabilities and buckling in partially polymerized membranes. Physical Review A, 1992, 46, 7474-7479.	1.0	20
68	Self-consistent theory of polymerized membranes. Physical Review Letters, 1992, 69, 1209-1212.	2.9	279
69	Crumpled glass phase of randomly polymerized membranes in the large d limit. Journal De Physique, I, 1992, 2, 599-613.	1.2	26
70	Statistical mechanics of randomly polymerized membranes. Physical Review A, 1991, 44, 3525-3542.	1.0	62