

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
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70
all docs

70
docs citations

70
times ranked

2329
citing authors

#	ARTICLE	IF	CITATIONS
1	BEC-BCS Crossover in δ -Magnetized Feshbach-Resonantly Paired Superfluids. <i>Physical Review Letters</i> , 2006, 96, 060401.	2.9	298
2	Self-consistent theory of polymerized membranes. <i>Physical Review Letters</i> , 1992, 69, 1209-1212.	2.9	279
3	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
4	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
5	Nonequilibrium steady states of driven periodic media. <i>Physical Review B</i> , 1998, 57, 7705-7739.	1.1	192
6	Universality and Scaling in the Disorder of a Smectic Liquid Crystal. <i>Science</i> , 2001, 294, 1074-1079.	6.0	187
7	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
8	Imbalanced Feshbach-resonant Fermi gases. <i>Reports on Progress in Physics</i> , 2010, 73, 076501.	8.1	168
9	Fracton-Elasticity Duality. <i>Physical Review Letters</i> , 2018, 120, 195301.	2.9	166
10	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
11	Smectic liquid crystals in random environments. <i>Physical Review B</i> , 1999, 60, 206-257.	1.1	116
12	Superfluid Transitions in Bosonic Atom-Molecule Mixtures near a Feshbach Resonance. <i>Physical Review Letters</i> , 2004, 92, 160402.	2.9	105
13	Fluctuations and phase transitions in Larkin-Ovchinnikov liquid-crystal states of a population-imbalanced resonant Fermi gas. <i>Physical Review A</i> , 2011, 84, .	1.0	103
14	Large-Nexpansion for unitary superfluid Fermi gases. <i>Physical Review A</i> , 2007, 75, .	1.0	94
15	Light-Induced Melting of Colloidal Crystals in Two Dimensions. <i>Physical Review Letters</i> , 1999, 83, 2977-2980.	2.9	79
16	A New Phase of Tethered Membranes: Tubules. <i>Physical Review Letters</i> , 1995, 75, 4752-4755.	2.9	74
17	Anomalous elasticity, fluctuations and disorder in elastic membranes. <i>Annals of Physics</i> , 2018, 392, 340-410.	1.0	73
18	Comment on δ -Moving Glass Phase of Driven Lattices. <i>Physical Review Letters</i> , 1997, 78, 751-751.	2.9	69

#	ARTICLE	IF	CITATIONS
19	Superfluidity and phase transitions in a resonant Bose gas. <i>Annals of Physics</i> , 2008, 323, 2376-2451.	1.0	65
20	Statistical mechanics of randomly polymerized membranes. <i>Physical Review A</i> , 1991, 44, 3525-3542.	1.0	62
21	Novel phases and reentrant melting of two-dimensional colloidal crystals. <i>Physical Review E</i> , 2001, 63, 031503.	0.8	60
22	Symmetry-Enriched Fracton Phases from Supersolid Duality. <i>Physical Review Letters</i> , 2018, 121, 235301.	2.9	49
23	Theory of Quantum Hall Nematics. <i>Physical Review Letters</i> , 2002, 88, 216802.	2.9	48
24	Fractons from Vector Gauge Theory. <i>Physical Review Letters</i> , 2020, 124, 050402.	2.9	41
25	Single-particle excitations in disordered Weyl fluids. <i>Physical Review B</i> , 2017, 95, .	1.1	40
26	Quench dynamics of a strongly interacting resonant Bose gas. <i>Physical Review A</i> , 2013, 88, .	1.0	39
27	Radio-frequency spectroscopy of a strongly imbalanced Feshbach-resonant Fermi gas. <i>Physical Review A</i> , 2008, 78, .	1.0	38
28	Crystal-to-fracton tensor gauge theory dualities. <i>Physical Review B</i> , 2019, 100, .	1.1	38
29	Fracton phases via exotic higher-form symmetry-breaking. <i>Annals of Physics</i> , 2021, 424, 168360.	1.0	37
30	Elasticity, shape fluctuations, and phase transitions in the new tubule phase of anisotropic tethered membranes. <i>Physical Review E</i> , 1998, 57, 1832-1863.	0.8	35
31	Nonlinear smectic elasticity of helical state in cholesteric liquid crystals and helimagnets. <i>Physical Review E</i> , 2011, 83, 051701.	0.8	32
32	Flat glassy phases and wrinkling of polymerized membranes with long-range disorder. <i>Physical Review B</i> , 1993, 48, 3548-3551.	1.1	31
33	$\langle \text{Wave Resonant Bose Gas: A Finite-Momentum Spinor Superfluid.} \rangle$ <i>Physical Review Letters</i> , 2009, 103, 095302.	2.9	31
34	Critical currents of ideal quantum Hall superfluids. <i>Physical Review B</i> , 2003, 68, .	1.1	30
35	Two New Topologically Ordered Glass Phases of Smectics Confined in Anisotropic Random Media. <i>Physical Review Letters</i> , 1999, 83, 1363-1366.	2.9	27
36	Crumpled glass phase of randomly polymerized membranes in the large d limit. <i>Journal De Physique</i> , I, 1992, 2, 599-613.	1.2	26

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37	Universal Elasticity and Fluctuations of Nematic Gels. <i>Physical Review Letters</i> , 2003, 90, 168301.	2.9	25
38	Postquench dynamics and prethermalization in a resonant Bose gas. <i>Physical Review A</i> , 2016, 93, .	1.0	24
39	Gapless insulating edges of dirty interacting topological insulators. <i>Physical Review B</i> , 2018, 98, .	1.1	23
40	Quantum Smectic Gauge Theory. <i>Physical Review Letters</i> , 2020, 125, 267601.	2.9	23
41	“Soft” Anharmonic Vortex Glass in Ferromagnetic Superconductors. <i>Physical Review Letters</i> , 2001, 87, .	2.9	22
42	Comment on “Superfluid stability in the BEC-BCS crossover”. <i>Physical Review B</i> , 2007, 75, .	1.1	22
43	Longitudinal current dissipation in Bose-glass superconductors. <i>Physical Review B</i> , 1996, 54, R6845-R6848.	1.1	21
44	Grain-boundary instabilities and buckling in partially polymerized membranes. <i>Physical Review A</i> , 1992, 46, 7474-7479.	1.0	20
45	Galilean invariance at quantum Hall edge. <i>Physical Review B</i> , 2015, 91, .	1.1	19
46	Two-dimensional melting via sine-Gordon duality. <i>Physical Review B</i> , 2019, 100, .	1.1	19
47	Nonlinear elasticity, fluctuations and heterogeneity of nematic elastomers. <i>Annals of Physics</i> , 2008, 323, 105-203.	1.0	18
48	A Discotic Disguised as a Smectic: A Hybrid Columnar Bragg Glass. <i>Physical Review Letters</i> , 2000, 85, 4309-4312.	2.9	17
49	Liquid Crystal Cells with “Dirty” Substrates. <i>Physical Review Letters</i> , 2009, 103, 167802.	2.9	17
50	Topological order, symmetry, and Hall response of two-dimensional spin-singlet superconductors. <i>Physical Review B</i> , 2017, 95, .	1.1	17
51	Anomalous Energetics and Dynamics of Moving Vortices. <i>Physical Review Letters</i> , 2015, 115, 247801.	2.9	16
52	Continuous 3D Freezing Transition in Layered Superconductors. <i>Physical Review Letters</i> , 1996, 76, 3416-3419.	2.9	15
53	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
54	Fractonic gauge theory of smectics. <i>Annals of Physics</i> , 2021, 435, 168509.	1.0	13

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55	Multiply Quantized Vortices in Fermionic Superfluids: Angular Momentum, Unpaired Fermions, and Spectral Asymmetry. <i>Physical Review Letters</i> , 2017, 119, 067003.	2.9	12
56	Velocity-force characteristics of an interface driven through a periodic potential. <i>Physical Review B</i> , 2003, 67, .	1.1	11
57	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
58	Quench dynamics of the spin-imbalanced Fermi-Hubbard model in one dimension. <i>Physical Review A</i> , 2016, 94, .	1.0	11
59	Chiral p - \pm superfluid on a sphere. <i>Physical Review B</i> , 2016, 93, .	1.1	10
60	Ferromagnetic transition in a one-dimensional spin-orbit-coupled metal and its mapping to a critical point in smectic liquid crystals. <i>Physical Review B</i> , 2017, 96, .	1.1	9
61	Anomalous localization at the boundary of an interacting topological insulator. <i>Physical Review B</i> , 2020, 101, .	1.1	9
62	Phases and transitions in phantom nematic elastomer membranes. <i>Physical Review E</i> , 2005, 71, 011802.	0.8	7
63	Thermal Buckling Transition of Crystalline Membranes in a Field. <i>Physical Review Letters</i> , 2021, 127, 015702.	2.9	7
64	Freezing of an unconventional two-dimensional plasma. <i>Physical Review B</i> , 2013, 87, .	1.1	5
65	ANISOTROPIC AND HETEROGENEOUS POLYMERIZED MEMBRANES. , 2004, , 275-321.		3
66	Finite-temperature spectroscopy of dirty helical Luttinger liquids. <i>Physical Review B</i> , 2020, 102, .	1.1	2
67	Smectic vortex glass. <i>Physical Review B</i> , 2021, 104, .	1.1	2
68	Renormalization group in quantum critical theories with Harris-marginal disorder. <i>Physical Review D</i> , 2022, 105, .	1.6	2
69	Piezosuperconductivity: Novel effects in noncentrosymmetric superconductors. <i>Physical Review B</i> , 2022, 105, .	1.1	2
70	Conical soliton escape into a third dimension of a surface vortex. <i>Physical Review E</i> , 2009, 79, 041702.	0.8	0