Tigran A Sedrakyan

List of Publications by Year
in descending order

42 papers	655 citations	623734 14 h-index	580821 25 g-index
42 all docs	42 docs citations	42 times ranked	526 citing authors

#	ARTICLE	IF	CITATIONS
1	Chern-Simons superconductors and their instabilities. Physical Review B, 2022, 105, .	3.2	5
2	Ballistic magnetotransport in graphene. Physical Review B, 2022, 105, .	3.2	1
3	Quantum nonequilibrium dynamics from Knizhnik-Zamolodchikov equations. Journal of High Energy Physics, 2022, 2022, 1.	4.7	3
4	Universal finite-size amplitude and anomalous entangment entropy of $z=2$ quantum Lifshitz criticalities in topological chains. SciPost Physics, 2022, 12, .	4.9	2
5	Optical lattice platform for the Sachdev-Ye-Kitaev model. Physical Review A, 2021, 103, .	2.5	24
6	Persistent Friedel oscillations in graphene due to a weak magnetic field. Physical Review B, 2021, 103, .	3.2	3
7	Interaction effects in graphene in a weak magnetic field. Physical Review B, 2021, 104, .	3.2	1
8	Helical spin liquid in a triangular XXZ magnet from Chern-Simons theory. Physical Review B, 2020, 102, .	3.2	7
9	Supersymmetry method for interacting chaotic and disordered systems: The Sachdev-Ye-Kitaev model. Physical Review B, 2020, 102, .	3.2	6
10	Universal finite-size scaling around tricriticality between topologically ordered, symmetry-protected topological, and trivial phases. Physical Review B, 2020, 101, .	3.2	3
11	Composite fermion state of graphene as a Haldane-Chern insulator. Physical Review B, 2019, 100, .	3.2	8
12	Fermionization of bosons in a flat band. Physical Review B, 2019, 99, .	3.2	13
13	Chern-Simons fermionization approach to two-dimensional quantum magnets: Implications for antiferromagnetic magnons and unconventional quantum phase transitions. Physical Review B, 2018, 98, .	3.2	10
14	Topological spin ordering via Chern-Simons superconductivity. Physical Review B, 2017, 95, .	3.2	17
15	Superbosonization in disorder and chaos: Role of anomalies. Physical Review B, 2017, 96, .	3.2	2
16	Statistical Transmutation in Floquet Driven Optical Lattices. Physical Review Letters, 2015, 115, 195301.	7.8	29
17	Spontaneous Formation of a Nonuniform Chiral Spin Liquid in a Moat-Band Lattice. Physical Review Letters, 2015, 114, 037203.	7.8	37
18	Absence of Bose condensation on lattices with moat bands. Physical Review B, 2014, 89, .	3.2	35

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19	Composite fermion state of spin-orbit-coupled bosons. Physical Review A, 2012, 86, .	2.5	66
20	Majorana path integral for nonequilibrium dynamics of two-level systems. Physical Review B, 2011, 83, .	3.2	4
21	Vortices in spin-orbit-coupled Bose-Einstein condensates. Physical Review A, 2011, 84, .	2.5	139
22	Proposed signature of Anderson localization and correlation-induced delocalization in an N-leg optical lattice. Physical Review A, 2011, 84, .	2.5	18
23	Pseudogap in underdoped cuprates and spin-density-wave fluctuations. Physical Review B, 2010, 81, .	3.2	32
24	Boundary Wess-Zumino-Novikov-Witten model from the pairing Hamiltonian. Physical Review B, 2010, 82, .	3.2	8
25	Fermionic propagators for two-dimensional systems with singular interactions. Physical Review B, 2009, 79, .	3.2	12
26	Magneto-Oscillations due to Electron-Electron Interactions in the ac Conductivity of a Two-Dimensional Electron Gas. Physical Review Letters, 2008, 100, 086808.	7.8	8
27	Interaction effects in a two-dimensional electron gas in a random magnetic field: Implications for composite fermions and the quantum critical point. Physical Review B, 2008, 77, .	3.2	4
28	Crossover from Weak Localization to Shubnikovâ€"deÂHaas Oscillations in a High-Mobility 2D Electron Gas. Physical Review Letters, 2008, 100, 106806.	7.8	17
29	Smearing of the Two-Dimensional Kohn Anomaly in a Nonquantizing Magnetic Field: Implications for Interaction Effects. Physical Review Letters, 2007, 99, 036401.	7.8	14
30	Zero-Bias Tunneling Anomaly in a Clean 2D Electron Gas Caused by Smooth Density Variations. Physical Review Letters, 2007, 99, 206405.	7.8	5
31	Mean-Field Theory for Heisenberg Zigzag Ladder: Ground State Energy and Spontaneous Symmetry Breaking. Annales Henri Poincare, 2006, 7, 1579-1590.	1.7	3
32	Penetration of external field into regular and random arrays of nanotubes: Implications for field emission. Physical Review B, 2006, 73, .	3.2	11
33	Planar array of semiconducting nanotubes in an external electric field: Collective screening and polarizability. Physical Review B, 2006, 74, .	3.2	3
34	Toda lattice representation for random matrix model with logarithmic confinement. Nuclear Physics B, 2005, 729, 526-541.	2.5	5
35	Localization-delocalization transition in the quasi-one-dimensional ladder chain with correlated disorder. Physical Review B, 2004, 70, .	3.2	27
36	INTEGRABLE N-LEG LADDER MODELS. International Journal of Modern Physics A, 2004, 19, 16-33.	1.5	2

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37	Localization-delocalization transition in a presence of correlated disorder: The random dimer model. Physical Review B, 2004, 69, .	3.2	35
38	Multi-leg integrable ladder models. Nuclear Physics B, 2004, 676, 615-636.	2.5	3
39	Staggered anisotropy parameter modification of the anisotropic t–J model. Nuclear Physics B, 2001, 608, 557-576.	2.5	14
40	Generalization of the (mathcal{U}) q (gl(N)) Algebra and Staggered Models. Letters in Mathematical Physics, 2001, 58, 209-222.	1.1	6
41	Integrable laddert-Jmodel with staggered shift of the spectral parameter. Journal of Physics A, 2001, 34, 5887-5900.	1.6	11
42	Perturbation theory in the radial quantization approach and the expectation values of exponential fields in the sine-Gordon model. Journal of Physics A, 2000, 33, 3335-3346.	1.6	2