

T Senthil

List of Publications by Year in descending order

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71
papers

8,575
citations

94269

37
h-index

95083

68
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72
all docs

72
docs citations

72
times ranked

4826
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetically brightened dark electron-phonon bound states in a van der Waals antiferromagnet. <i>Nature Communications</i> , 2022, 13, 98.	5.8	21
2	Spectroscopy signatures of electron correlations in a trilayer graphene/hBN moiré superlattice. <i>Science</i> , 2022, 375, 1295-1299.	6.0	30
3	Interpreting angle-dependent magnetoresistance in layered materials: Application to cuprates. <i>Physical Review B</i> , 2022, 105, .	1.1	0
4	The marvels of moiré materials. <i>Nature Reviews Materials</i> , 2021, 6, 201-206.	23.8	262
5	Non-Fermi Liquids as Ersatz Fermi Liquids: General Constraints on Compressible Metals. <i>Physical Review X</i> , 2021, 11, .	2.8	44
6	Entanglement clustering for ground-stateable quantum many-body states. <i>Physical Review Research</i> , 2021, 3, .	1.3	1
7	Exciton-driven antiferromagnetic metal in a correlated van der Waals insulator. <i>Nature Communications</i> , 2021, 12, 4837.	5.8	39
8	Strange Metals as Ersatz Fermi Liquids. <i>Physical Review Letters</i> , 2021, 127, 086601.	2.9	22
9	Critical drag as a mechanism for resistivity. <i>Physical Review B</i> , 2021, 104, .	1.1	14
10	Slow scrambling and hidden integrability in a random rotor model. <i>Physical Review B</i> , 2020, 102, .	1.1	5
11	Ferromagnetism in Narrow Bands of Moiré Superlattices. <i>Physical Review Letters</i> , 2020, 124, 187601.	2.9	123
12	Tunable correlated Chern insulator and ferromagnetism in a moiré superlattice. <i>Nature</i> , 2020, 579, 56-61.	13.7	425
13	Possible Quantum Paramagnetism in Compressed Sr ₂ IrO ₄ . <i>Physical Review Letters</i> , 2020, 124, 067201.	2.9	19
14	Quantum spin liquids. <i>Science</i> , 2020, 367, .	6.0	513
15	Strange Metal in Magic-Angle Graphene with near Planckian Dissipation. <i>Physical Review Letters</i> , 2020, 124, 076801.	2.9	293
16	Chern bands of twisted bilayer graphene: Fractional Chern insulators and spin phase transition. <i>Physical Review Research</i> , 2020, 2, .	1.3	90
17	Faithful tight-binding models and fragile topology of magic-angle bilayer graphene. <i>Physical Review B</i> , 2019, 99, .	1.1	278
18	Spin transport in a Mott insulator of ultracold fermions. <i>Science</i> , 2019, 363, 383-387.	6.0	106

#	ARTICLE	IF	CITATIONS
19	Quantum oscillations in insulators with neutral Fermi surfaces. Physical Review B, 2018, 97, .	1.1	54
20	Origin of Mott Insulating Behavior and Superconductivity in Twisted Bilayer Graphene. Physical Review X, 2018, 8, .	2.8	428
21	Symmetry enriched U(1) quantum spin liquids. Physical Review B, 2018, 97, .	1.1	18
22	Valence Bonds in Random Quantum Magnets: Theory and Application to YbMgGaO_4 . Physical Review X, 2018, 8, .	2.8	127
23	Translationally Invariant Non-Fermi-Liquid Metals with Critical Fermi Surfaces: Solvable Models. Physical Review X, 2018, 8, .	2.8	96
24	Mixed-valence insulators with neutral Fermi surfaces. Nature Communications, 2018, 9, 1766.	5.8	74
25	Band structure of twisted bilayer graphene: Emergent symmetries, commensurate approximants, and Wannier obstructions. Physical Review B, 2018, 98, .	1.1	254
26	Deconfined Quantum Critical Points: Symmetries and Dualities. Physical Review X, 2017, 7, .	2.8	221
27	Composite fermion duality for half-filled multicomponent Landau levels. Physical Review B, 2017, 95, .	1.1	27
28	Emergent particle-hole symmetry in spinful bosonic quantum Hall systems. Physical Review B, 2017, 96, .	1.1	20
29	Theory of anomalous magnetotransport from mass anisotropy. Physical Review B, 2017, 95, .	1.1	4
30	Dimensional decoupling at continuous quantum critical Mott transitions. Physical Review B, 2016, 94, .	1.1	14
31	Phase transition beneath the superconducting dome in $\text{BaFe}_2(\text{As}_{1-x}\text{P}_x)_2$. Physical Review B, 2015, 92, .	1.1	16
32	Symmetry-Protected Topological Phases of Quantum Matter. Annual Review of Condensed Matter Physics, 2015, 6, 299-324.	5.2	336
33	Cooper pairing in non-Fermi liquids. Physical Review B, 2015, 91, .	1.1	215
34	Integer Quantum Hall Effect for Bosons. Physical Review Letters, 2013, 110, 046801.	2.9	182
35	Wave functions of bosonic symmetry protected topological phases. Physical Review B, 2013, 87, .	1.1	80
36	Microscopic model for the boson integer quantum Hall effect. Physical Review B, 2013, 88, .	1.1	54

#	ARTICLE	IF	CITATIONS
37	Geometric proof of the equality between entanglement and edge spectra. Physical Review B, 2012, 86, .	1.1	60
38	Universal transport near a quantum critical Mott transition in two dimensions. Physical Review B, 2012, 86, .	1.1	37
39	Orthogonal metals: The simplest non-Fermi liquids. Physical Review B, 2012, 86, .	1.1	82
40	Charge Friedel oscillations in a Mott insulator. Physical Review B, 2011, 84, .	1.1	32
41	Weak Mott insulators on the triangular lattice: Possibility of a gapless nematic quantum spin liquid. Physical Review B, 2010, 81, .	1.1	78
42	Deconfined Quantum Critical Points. , 2010, , 333-343.		2
43	Coherence and Pairing in a Doped Mott Insulator: Application to the Cuprates. Physical Review Letters, 2009, 103, 076402.	2.9	23
44	Fermi Surfaces in General Codimension and a New Controlled Nontrivial Fixed Point. Physical Review Letters, 2009, 102, 046406.	2.9	29
45	Room for one more. Nature Physics, 2009, 5, 460-461.	6.5	1
46	Algebraic charge liquids. Nature Physics, 2008, 4, 28-31.	6.5	98
47	Angle-dependent quasiparticle weights in correlated metals. Physical Review B, 2008, 77, .	1.1	15
48	Monopoles in CP^{n-1} via the state-operator correspondence. Physical Review B, 2008, 78, .	1.1	13
49	Lattice models for non-Fermi-liquid metals. Physical Review B, 2008, 78, .	1.1	3
50	Fractionalization in the Cuprates: Detecting the Topological Order. Topologica, 2008, 1, 010.	0.3	0
51	Higher angular momentum Kondo liquids. Physical Review B, 2007, 75, .	1.1	20
52	QUANTUM MATTERS: PHYSICS BEYOND LANDAU'S PARADIGMS. International Journal of Modern Physics B, 2006, 20, 2603-2611.	1.0	5
53	Néel order, quantum spin liquids, and quantum criticality in two dimensions. Physical Review B, 2006, 73, .	1.1	34
54	Vortex description of fractionalized phases in an exciton Bose condensate. Physical Review B, 2006, 74, .	1.1	1

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55	QUANTUM MATTERS: PHYSICS BEYOND LANDAU'S PARADIGMS. , 2006, , .		0
56	Finite-temperature properties of quantum Lifshitz transitions between valence-bond solid phases: An example of local quantum criticality. Physical Review B, 2005, 72, .	1.1	32
57	Stability of $U(1)$ spin liquids in two dimensions. Physical Review B, 2004, 70, .	1.1	246
58	Screening and dissipation at the superconductor-insulator transition induced by a metallic ground plane. Physical Review B, 2004, 69, .	1.1	15
59	Quantum criticality and deconfinement in phase transitions between valence bond solids. Physical Review B, 2004, 69, .	1.1	112
60	Quantum criticality beyond the Landau-Ginzburg-Wilson paradigm. Physical Review B, 2004, 70, .	1.1	621
61	Deconfined Quantum Critical Points. Science, 2004, 303, 1490-1494.	6.0	1,068
62	Fractionalized Fermi Liquids. Physical Review Letters, 2003, 90, 216403.	2.9	337
63	Exotic Order in Simple Models of Bosonic Systems. Physical Review Letters, 2002, 89, 277004.	2.9	128
64	Fractionalization patterns in strongly correlated electron systems: Spin-charge separation and beyond. Physical Review B, 2002, 65, .	1.1	27
65	Microscopic models for fractionalized phases in strongly correlated systems. Physical Review B, 2002, 66, .	1.1	77
66	Quantum confinement transition in ad-wave superconductor. Physical Review B, 2001, 63, .	1.1	49
67	Fractionalization, topological order, and cuprate superconductivity. Physical Review B, 2001, 63, .	1.1	121
68	Electron spectral function in two-dimensional fractionalized phases. Physical Review B, 2001, 64, .	1.1	13
69	Fractionalization in the Cuprates: Detecting the Topological Order. Physical Review Letters, 2001, 86, 292-295.	2.9	128
70	Luttinger liquid physics in the superconductor vortex core. Physical Review B, 2000, 63, .	1.1	5
71	Z_2 gauge theory of electron fractionalization in strongly correlated systems. Physical Review B, 2000, 62, 7850-7881.	1.1	520