

Siddharth A Parameswaran

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4815925/publications.pdf>

Version: 2024-02-01

75
papers

3,385
citations

172457

29
h-index

144013

57
g-index

75
all docs

75
docs citations

75
times ranked

2781
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge Transport in Weyl Semimetals. Physical Review Letters, 2012, 108, 046602.	7.8	407
2	Probing the Chiral Anomaly with Nonlocal Transport in Three-Dimensional Topological Semimetals. Physical Review X, 2014, 4, .	8.9	308
3	Fractional quantum Hall physics in topological flat bands. Comptes Rendus Physique, 2013, 14, 816-839.	0.9	255
4	Universal Properties of Many-Body Delocalization Transitions. Physical Review X, 2015, 5, .	8.9	240
5	Topological order and absence of band insulators at integer filling in non-symmorphic crystals. Nature Physics, 2013, 9, 299-303.	16.7	148
6	Distinguishing localization from chaos: Challenges in finite-size systems. Annals of Physics, 2021, 427, 168415.	2.8	133
7	Fractional Chern insulators and the $\mathbb{W}\hat{\mathbb{Z}}$ algebra. Physical Review B, 2012, 85, .	3.2	101
8	Quantum revivals and many-body localization. Physical Review B, 2015, 91, .	3.2	98
9	Quantum Criticality of Hot Random Spin Chains. Physical Review Letters, 2015, 114, 217201.	7.8	94
10	Kosterlitz-Thouless scaling at many-body localization phase transitions. Physical Review B, 2019, 99, .	3.2	87
11	Topological entanglement entropy of fracton stabilizer codes. Physical Review B, 2018, 97, .	3.2	77
12	Many-body localization, symmetry and topology. Reports on Progress in Physics, 2018, 81, 082501.	20.1	69
13	Nematic valley ordering in quantum Hall systems. Physical Review B, 2010, 82, .	3.2	63
14	Particle-hole symmetry, many-body localization, and topological edge modes. Physical Review B, 2016, 93, .	3.2	60
15	Dynamics and transport at the threshold of many-body localization. Physics Reports, 2020, 862, 1-62.	25.6	60
16	Current at a Distance and Resonant Transparency in Weyl Semimetals. Physical Review X, 2015, 5, .	8.9	58
17	Correlation function diagnostics for type-I fracton phases. Physical Review B, 2018, 97, .	3.2	58
18	Recoverable information and emergent conservation laws in fracton stabilizer codes. Physical Review B, 2018, 97, .	3.2	55

#	ARTICLE	IF	CITATIONS
19	Eigenstate phase transitions and the emergence of universal dynamics in highly excited states. Annalen Der Physik, 2017, 529, 1600302.	2.4	53
20	Kekulé Spiral Order at All Nonzero Integer Fillings in Twisted Bilayer Graphene. Physical Review X, 2021, 11, .	8.9	47
21	Disorder-driven destruction of a non-Fermi liquid semimetal studied by renormalization group analysis. Physical Review B, 2017, 95, .	3.2	46
22	One-dimensional Luttinger liquids in a two-dimensional moiré lattice. Nature, 2022, 605, 57-62.	27.8	44
23	Global Phase Diagram of the Normal State of Twisted Bilayer Graphene. Physical Review Letters, 2022, 128, 156401.	7.8	42
24	Featureless and nonfractionalized Mott insulators on the honeycomb lattice at 1/2 site filling. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16378-16383.	7.1	37
25	Fibonacci optical lattices for tunable quantum quasicrystals. Physical Review A, 2015, 92, .	2.5	35
26	Charge $2e$ Skyrmions in Bilayer Graphene. Physical Review Letters, 2009, 103, 076802.	7.8	34
27	Floquet quantum criticality. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9491-9496.	7.1	33
28	Topological Insulators Turn a Corner. Physics Magazine, 0, 10, .	0.1	31
29	Chiral bosonic Mott insulator on the frustrated triangular lattice. Physical Review B, 2014, 89, .	3.2	30
30	Spin crossovers and superdiffusion in the one-dimensional Hubbard model. Physical Review B, 2020, 102, .	3.2	30
31	Exciton Band Topology in Spontaneous Quantum Anomalous Hall Insulators: Applications to Twisted Bilayer Graphene. Physical Review Letters, 2021, 126, 137601.	7.8	28
32	Wannier Permanent Wave Functions for Featureless Bosonic Mott Insulators on the 1×3 -Filled Kagome Lattice. Physical Review Letters, 2013, 110, 125301.	7.8	27
33	Unhinging the Surfaces of Higher-Order Topological Insulators and Superconductors. Physical Review Letters, 2020, 124, 046801.	7.8	26
34	Spin-catalyzed hopping conductivity in disordered strongly interacting quantum wires. Physical Review B, 2017, 95, .	3.2	22
35	Localization-protected order in spin chains with non-Abelian discrete symmetries. Physical Review B, 2018, 98, .	3.2	21
36	Hydrodynamic nonlinear response of interacting integrable systems. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21

#	ARTICLE	IF	CITATIONS
37	Order and disorder in AKLT antiferromagnets in three dimensions. Physical Review B, 2009, 79, .	3.2	20
38	Glide symmetry breaking and Ising criticality in the quasi-1D magnet CoNb_2O_6 . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25219-25224.	7.1	20
39	Observation of Coherent Helimagnons and Gilbert Damping in an Itinerant Magnet. Physical Review Letters, 2012, 109, 247204.	7.8	19
40	Hall effect anomaly and low-temperature metamagnetism in the Kondo compound CeAgBi . Physical Review B, 2016, 93, .	3.2	19
41	Interacting multi-channel topological boundary modes in a quantum Hall valley system. Nature, 2019, 566, 363-367.	27.8	19
42	Anomalous Fermi-liquid phase in metallic skyrmion crystals. Physical Review B, 2014, 90, .	3.2	18
43	Microscopic theory of a quantum Hall Ising nematic: Domain walls and disorder. Physical Review B, 2013, 88, .	3.2	17
44	Twisted bilayer graphene in a parallel magnetic field. Physical Review B, 2020, 101, .	3.2	17
45	Quantum oscillations probe the Fermi surface topology of the nodal-line semimetal CaAgAs . Physical Review Research, 2020, 2, .	3.6	17
46	Non-Fermi Glasses: Localized Descendants of Fractionalized Metals. Physical Review Letters, 2017, 119, 146601.	7.8	16
47	Classical Dimers on Penrose Tilings. Physical Review X, 2020, 10, .	8.9	15
48	Domain wall competition in the Chern insulating regime of twisted bilayer graphene. Physical Review B, 2021, 104, .	3.2	15
49	Quantum Hall valley nematics. Journal of Physics Condensed Matter, 2019, 31, 273001.	1.8	14
50	AKLT models with quantum spin glass ground states. Physical Review B, 2010, 81, .	3.2	13
51	Weakly Coupled Pfaffian as a Type I Quantum Hall Liquid. Physical Review Letters, 2011, 106, 236801.	7.8	13
52	Absence of Goldstone bosons on the Bethe lattice. Physical Review B, 2009, 80, .	3.2	12
53	Topological crystalline Bose insulator in two dimensions via entanglement spectrum. Physical Review B, 2015, 92, .	3.2	12
54	Bionic Coulomb phase on the pyrochlore lattice. Physical Review B, 2012, 86, .	3.2	11

#	ARTICLE	IF	CITATIONS
55	Asymptotically Exact Theory for Nonlinear Spectroscopy of Random Quantum Magnets. Physical Review Letters, 2020, 125, 237601.	7.8	11
56	Valley-selective Landau-Zener oscillations in semi-Dirac π -junctions. Physical Review B, 2017, 96, .	3.2	10
57	Strong-disorder renormalization group for periodically driven systems. Physical Review B, 2018, 98, .	3.2	8
58	Typology for quantum Hall liquids. Physical Review B, 2012, 85, .	3.2	8
59	Theory of competing excitonic orders in insulating WTe_2 monolayers. Physical Review B, 2021, 104, .	7.8	7
60	Microscopic Model of Quasiparticle Wave Packets in Superfluids, Superconductors, and Paired Hall States. Physical Review Letters, 2012, 109, 237004.	3.2	7
61	Filling-enforced nonsymmorphic Kondo semimetals in two dimensions. Physical Review B, 2017, 96, .	3.2	7
62	Signatures of information scrambling in the dynamics of the entanglement spectrum. Physical Review B, 2019, 100, .	7.8	7
63	Quantum Oscillations in the Zeroth Landau Level: Serpentine Landau Fan and the Chiral Anomaly. Physical Review Letters, 2021, 127, 116602.	16.7	6
64	Unfinished bismuth. Nature Physics, 2012, 8, 7-8.	3.2	6
65	Fractionalizing glide reflections in two-dimensional ordered phases. Physical Review B, 2016, 94, .	3.2	6
66	Order by disorder and by doping in quantum Hall valley ferromagnets. Physical Review B, 2016, 93, .	3.2	6
67	Topology- and symmetry-protected domain wall conduction in quantum Hall nematics. Physical Review B, 2019, 100, .	3.2	5
68	Odd fracton theories, proximate orders, and parton constructions. Physical Review B, 2020, 102, .	3.2	5
69	Superuniversality from disorder at two-dimensional topological phase transitions. Physical Review B, 2020, 102, .	1.8	4
70	Topological Luttinger invariants for filling-enforced non-symmorphic semimetals. Journal of Physics Condensed Matter, 2019, 31, 104001.	3.2	3
71	Quantum Brownian motion in a quasiperiodic potential. Physical Review B, 2019, 100, .	3.2	2
72	Beyond the freshman's dream: Classical fractal spin liquids from matrix cellular automata in three-dimensional lattice models. Physical Review B, 2022, 105, .		

#	ARTICLE	IF	CITATIONS
73	Renormalization group and the superconducting susceptibility of a Fermi liquid. Physical Review B, 2010, 82, .	3.2	1
74	Excitonic fractional quantum Hall hierarchy in moiré heterostructures. Physical Review B, 2022, 105, .	3.2	1
75	Order and disorder in $SU(N)$ simplex solid antiferromagnets. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 013105.	2.3	0