

# 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

196777

29  
h-index

162838

57  
g-index

75  
all docs

75  
docs citations

75  
times ranked

3130  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Phase Diagram of the Normal State of Twisted Bilayer Graphene. Physical Review Letters, 2022, 128, 156401.	2.9	42
2	One-dimensional Luttinger liquids in a two-dimensional moiré lattice. Nature, 2022, 605, 57-62.	13.7	44
3	Excitonic fractional quantum Hall hierarchy in moiré heterostructures. Physical Review B, 2022, 105, .	1.1	1
4	Beyond the freshman's dream: Classical fractal spin liquids from matrix cellular automata in three-dimensional lattice models. Physical Review B, 2022, 105, .	1.1	2
5	Exciton Band Topology in Spontaneous Quantum Anomalous Hall Insulators: Applications to Twisted Bilayer Graphene. Physical Review Letters, 2021, 126, 137601.	2.9	28
6	Distinguishing localization from chaos: Challenges in finite-size systems. Annals of Physics, 2021, 427, 168415.	1.0	133
7	Hydrodynamic nonlinear response of interacting integrable systems. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	21
8	Domain wall competition in the Chern insulating regime of twisted bilayer graphene. Physical Review B, 2021, 104, .	1.1	15
9	Theory of competing excitonic orders in insulating $WTe_2$ monolayers. Physical Review B, 2021, 104, .	1.1	8
10	Quantum Oscillations in the Zeroth Landau Level: Serpentine Landau Fan and the Chiral Anomaly. Physical Review Letters, 2021, 127, 116602.	2.9	7
11	Kekulé Spiral Order at All Nonzero Integer Fillings in Twisted Bilayer Graphene. Physical Review X, 2021, 11, .	2.8	47
12	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.	3.3	20
13	Spin crossovers and superdiffusion in the one-dimensional Hubbard model. Physical Review B, 2020, 102, .	1.1	30
14	Asymptotically Exact Theory for Nonlinear Spectroscopy of Random Quantum Magnets. Physical Review Letters, 2020, 125, 237601.	2.9	11
15	Odd fracton theories, proximate orders, and parton constructions. Physical Review B, 2020, 102, .	1.1	5
16	Twisted bilayer graphene in a parallel magnetic field. Physical Review B, 2020, 101, .	1.1	17
17	Classical Dimers on Penrose Tilings. Physical Review X, 2020, 10, .	2.8	15
18	Unhinging the Surfaces of Higher-Order Topological Insulators and Superconductors. Physical Review Letters, 2020, 124, 046801.	2.9	26

#	ARTICLE	IF	CITATIONS
19	Dynamics and transport at the threshold of many-body localization. <i>Physics Reports</i> , 2020, 862, 1-62.	10.3	60
20	Superuniversality from disorder at two-dimensional topological phase transitions. <i>Physical Review B</i> , 2020, 102, .	1.1	5
21	Quantum oscillations probe the Fermi surface topology of the nodal-line semimetal CaAgAs. <i>Physical Review Research</i> , 2020, 2, .	1.3	17
22	Quantum Brownian motion in a quasiperiodic potential. <i>Physical Review B</i> , 2019, 100, .	1.1	3
23	Topology- and symmetry-protected domain wall conduction in quantum Hall nematics. <i>Physical Review B</i> , 2019, 100, .	1.1	6
24	Signatures of information scrambling in the dynamics of the entanglement spectrum. <i>Physical Review B</i> , 2019, 100, .	1.1	7
25	Kosterlitz-Thouless scaling at many-body localization phase transitions. <i>Physical Review B</i> , 2019, 99, .	1.1	87
26	Quantum Hall valley nematics. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 273001.	0.7	14
27	Interacting multi-channel topological boundary modes in a quantum Hall valley system. <i>Nature</i> , 2019, 566, 363-367.	13.7	19
28	Topological $\tilde{\nu}$ -Luttinger invariants for filling-enforced non-symmorphic semimetals. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 104001.	0.7	4
29	Correlation function diagnostics for type-I fracton phases. <i>Physical Review B</i> , 2018, 97, .	1.1	58
30	Topological entanglement entropy of fracton stabilizer codes. <i>Physical Review B</i> , 2018, 97, .	1.1	77
31	Recoverable information and emergent conservation laws in fracton stabilizer codes. <i>Physical Review B</i> , 2018, 97, .	1.1	55
32	Strong-disorder renormalization group for periodically driven systems. <i>Physical Review B</i> , 2018, 98, .	1.1	10
33	Localization-protected order in spin chains with non-Abelian discrete symmetries. <i>Physical Review B</i> , 2018, 98, .	1.1	21
34	Floquet quantum criticality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9491-9496.	3.3	33
35	Many-body localization, symmetry and topology. <i>Reports on Progress in Physics</i> , 2018, 81, 082501.	8.1	69
36	Eigenstate phase transitions and the emergence of universal dynamics in highly excited states. <i>Annalen Der Physik</i> , 2017, 529, 1600302.	0.9	53

#	ARTICLE	IF	CITATIONS
37	Non-Fermi Glasses: Localized Descendants of Fractionalized Metals. Physical Review Letters, 2017, 119, 146601.	2.9	16
38	Spin-catalyzed hopping conductivity in disordered strongly interacting quantum wires. Physical Review B, 2017, 95, .	1.1	22
39	Disorder-driven destruction of a non-Fermi liquid semimetal studied by renormalization group analysis. Physical Review B, 2017, 95, .	1.1	46
40	Filling-enforced nonsymmorphic Kondo semimetals in two dimensions. Physical Review B, 2017, 96, .	1.1	7
41	Valley-selective Landau-Zener oscillations in semi-Dirac $\pi$ junctions. Physical Review B, 2017, 96, .		
42	Order and disorder in $SU(N)$ simplex solid antiferromagnets. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 013105.	0.9	0
43	Fractionalizing glide reflections in two-dimensional ordered phases. Physical Review B, 2016, 94, .		
44	Order by disorder and by doping in quantum Hall valley ferromagnets. Physical Review B, 2016, 93, .	1.1	6
45	Hall effect anomaly and low-temperature metamagnetism in the Kondo compound $CeAgBi$ . Physical Review B, 2016, 93, .		
46	Particle-hole symmetry, many-body localization, and topological edge modes. Physical Review B, 2016, 93, .	1.1	60
47	Topological crystalline Bose insulator in two dimensions via entanglement spectrum. Physical Review B, 2015, 92, .	1.1	12
48	Fibonacci optical lattices for tunable quantum quasicrystals. Physical Review A, 2015, 92, .	1.0	35
49	Current at a Distance and Resonant Transparency in Weyl Semimetals. Physical Review X, 2015, 5, .	2.8	58
50	Universal Properties of Many-Body Delocalization Transitions. Physical Review X, 2015, 5, .	2.8	240
51	Quantum Criticality of Hot Random Spin Chains. Physical Review Letters, 2015, 114, 217201.	2.9	94
52	Quantum revivals and many-body localization. Physical Review B, 2015, 91, .	1.1	98
53	Probing the Chiral Anomaly with Nonlocal Transport in Three-Dimensional Topological Semimetals. Physical Review X, 2014, 4, .	2.8	308
54	Chiral bosonic Mott insulator on the frustrated triangular lattice. Physical Review B, 2014, 89, .	1.1	30

#	ARTICLE	IF	CITATIONS
55	Anomalous Fermi-liquid phase in metallic skyrmion crystals. Physical Review B, 2014, 90, .	1.1	18
56	Wannier Permanent Wave Functions for Featureless Bosonic Mott Insulators on the $\langle \mathbb{Z}_3 \rangle$ -Filled Kagome Lattice. Physical Review Letters, 2013, 110, 125301.	2.9	27
57	Fractional quantum Hall physics in topological flat bands. Comptes Rendus Physique, 2013, 14, 816-839.	0.3	255
58	Topological order and absence of band insulators at integer filling in non-symmorphic crystals. Nature Physics, 2013, 9, 299-303.	6.5	148
59	Microscopic theory of a quantum Hall Ising nematic: Domain walls and disorder. Physical Review B, 2013, 88, .	1.1	17
60	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.	3.3	37
61	Charge Transport in Weyl Semimetals. Physical Review Letters, 2012, 108, 046602.	2.9	407
62	Bionic Coulomb phase on the pyrochlore lattice. Physical Review B, 2012, 86, .	1.1	11
63	Fractional Chern insulators and the $\langle \mathbb{Z}_2 \rangle$ algebra. Physical Review B, 2012, 85, .	1.1	101
64	Observation of Coherent Helimagnons and Gilbert Damping in an Itinerant Magnet. Physical Review Letters, 2012, 109, 247204.	2.9	19
65	Microscopic Model of Quasiparticle Wave Packets in Superfluids, Superconductors, and Paired Hall States. Physical Review Letters, 2012, 109, 237004.	2.9	7
66	Unfinished bismuth. Nature Physics, 2012, 8, 7-8.	6.5	6
67	Typology for quantum Hall liquids. Physical Review B, 2012, 85, .	1.1	8
68	Weakly Coupled Pfaffian as a Type I Quantum Hall Liquid. Physical Review Letters, 2011, 106, 236801.	2.9	13
69	Renormalization group and the superconducting susceptibility of a Fermi liquid. Physical Review B, 2010, 82, .	1.1	1
70	AKLT models with quantum spin glass ground states. Physical Review B, 2010, 81, .	1.1	13
71	Nematic valley ordering in quantum Hall systems. Physical Review B, 2010, 82, .	1.1	63
72	Absence of Goldstone bosons on the Bethe lattice. Physical Review B, 2009, 80, .	1.1	12

#	ARTICLE	IF	CITATIONS
73	Order and disorder in AKLT antiferromagnets in three dimensions. Physical Review B, 2009, 79, .	1.1	20
74	Charge $2e$ Skyrmions in Bilayer Graphene. Physical Review Letters, 2009, 103, 076802.	2.9	34
75	Topological Insulators Turn a Corner. Physics Magazine, 0, 10, .	0.1	31