

Chetan Nayak

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

8,788
citations

318942

23
h-index

445137

33
g-index

34
all docs

34
docs citations

34
times ranked

7123
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Abelian anyons and topological quantum computation. <i>Reviews of Modern Physics</i> , 2008, 80, 1083-1159.	16.4	4,907
2	Majorana zero modes and topological quantum computation. <i>Npj Quantum Information</i> , 2015, 1, .	2.8	730
3	Floquet Time Crystals. <i>Physical Review Letters</i> , 2016, 117, 090402.	2.9	645
4	Topologically Protected Qubits from a Possible Non-Abelian Fractional Quantum Hall State. <i>Physical Review Letters</i> , 2005, 94, 166802.	2.9	546
5	Prethermal Phases of Matter Protected by Time-Translation Symmetry. <i>Physical Review X</i> , 2017, 7, .	2.8	229
6	Two-dimensional epitaxial superconductor-semiconductor heterostructures: A platform for topological superconducting networks. <i>Physical Review B</i> , 2016, 93, .	1.1	211
7	Classification of topological phases in periodically driven interacting systems. <i>Physical Review B</i> , 2016, 93, .	1.1	180
8	Discrete Time Crystals. <i>Annual Review of Condensed Matter Physics</i> , 2020, 11, 467-499.	5.2	146
9	Flux-induced topological superconductivity in full-shell nanowires. <i>Science</i> , 2020, 367, .	6.0	129
10	Observation of the 4π -periodic Josephson effect in indium arsenide nanowires. <i>Nature Communications</i> , 2019, 10, 245.	5.8	113
11	Classifying symmetry-protected topological phases through the anomalous action of the symmetry on the edge. <i>Physical Review B</i> , 2014, 90, .	1.1	98
12	Observation of a prethermal discrete time crystal. <i>Science</i> , 2021, 372, 1192-1196.	6.0	93
13	Origin and transport signatures of spin-orbit interactions in one- and two-dimensional SrTiO ₃ -based heterostructures. <i>Physical Review B</i> , 2013, 87, .	1.1	85
14	Classical discrete time crystals. <i>Nature Physics</i> , 2020, 16, 438-447.	6.5	85
15	More realistic Hamiltonians for the fractional quantum Hall regime in GaAs and graphene. <i>Physical Review B</i> , 2013, 87, .	1.1	73
16	Phase Diagram of the $\nu = 5/2$ Fractional Quantum Hall Effect: Effects of Landau-Level Mixing and Nonzero Width. <i>Physical Review X</i> , 2015, 5, .	2.8	70
17	Long-Range Prethermal Phases of Nonequilibrium Matter. <i>Physical Review X</i> , 2020, 10, .	2.8	61
18	Prethermal Strong Zero Modes and Topological Qubits. <i>Physical Review X</i> , 2017, 7, .	2.8	60

#	ARTICLE	IF	CITATIONS
19	Dephasing of Majorana-based qubits. Physical Review B, 2018, 97, .	1.1	60
20	Bilayer paired quantum Hall states and Coulomb drag. Physical Review B, 2001, 63, .	1.1	57
21	Isotropic to anisotropic transition in a fractional quantum Hall state. Physical Review B, 2010, 82, .	1.1	48
22	Effects of Landau Level Mixing on the Fractional Quantum Hall Effect in Monolayer Graphene. Physical Review Letters, 2014, 113, 086401.	2.9	46
23	Exponentially slow heating in short and long-range interacting Floquet systems. Physical Review Research, 2019, 1, .	1.3	40
24	Short-range entangled bosonic states with chiral edge modes and T duality of heterotic strings. Physical Review B, 2013, 88, .	1.1	23
25	Chirality-protected Majorana zero modes at the gapless edge of Abelian quantum Hall states. Physical Review B, 2015, 92, .	1.1	13
26	Energy spectrum and current-phase relation of a nanowire Josephson junction close to the topological transition. Physical Review B, 2020, 101, .	1.1	11
27	Marching to a different quantum beat. Nature, 2017, 543, 185-186.	13.7	9
28	Majorana zero modes in semiconductor nanowires in contact with higher-Tc superconductors. Physical Review B, 2012, 86, .	1.1	5
29	Microwave absorption by a mesoscopic quantum Hall droplet. Physical Review B, 2013, 88, .	1.1	5
30	Almost Perfect Metals in One Dimension. Physical Review Letters, 2020, 124, 136801.	2.9	4
31	Full tilt. Nature Physics, 2011, 7, 836-836.	6.5	2
32	Unexpected tunneling current from downstream neutral modes. Physical Review B, 2014, 90, .	1.1	2
33	Transport in a one-dimensional hyperconductor. Physical Review B, 2016, 93, .	1.1	2
34	Quantum critical dynamics of a Josephson junction at the topological transition. Physical Review B, 2021, 104, .	1.1	0