Chetan Nayak

List of Publications by Year
in descending order

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34 papers	8,788 citations	279798 23 h-index	395702 33 g-index
34 all docs	34 docs citations	34 times ranked	6303 citing authors

#	Article	IF	Citations
1	Non-Abelian anyons and topological quantum computation. Reviews of Modern Physics, 2008, 80, 1083-1159.	45.6	4,907
2	Majorana zero modes and topological quantum computation. Npj Quantum Information, 2015, 1, .	6.7	730
3	Floquet Time Crystals. Physical Review Letters, 2016, 117, 090402.	7.8	645
4	Topologically Protected Qubits from a Possible Non-Abelian Fractional Quantum Hall State. Physical Review Letters, 2005, 94, 166802.	7.8	546
5	Prethermal Phases of Matter Protected by Time-Translation Symmetry. Physical Review X, 2017, 7, .	8.9	229
6	Two-dimensional epitaxial superconductor-semiconductor heterostructures: A platform for topological superconducting networks. Physical Review B, 2016, 93, .	3.2	211
7	Classification of topological phases in periodically driven interacting systems. Physical Review B, 2016, 93, .	3.2	180
8	Discrete Time Crystals. Annual Review of Condensed Matter Physics, 2020, 11, 467-499.	14.5	146
9	Flux-induced topological superconductivity in full-shell nanowires. Science, 2020, 367, .	12.6	129
10	Observation of the 4Ï€-periodic Josephson effect in indium arsenide nanowires. Nature Communications, 2019, 10, 245.	12.8	113
11	Classifying symmetry-protected topological phases through the anomalous action of the symmetry on the edge. Physical Review B, 2014, 90, .	3.2	98
12	Observation of a prethermal discrete time crystal. Science, 2021, 372, 1192-1196.	12.6	93
13	Origin and transport signatures of spin-orbit interactions in one- and two-dimensional SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>-based heterostructures. Physical Review B, 2013, 87, .	3.2	85
14	Classical discrete time crystals. Nature Physics, 2020, 16, 438-447.	16.7	85
15	More realistic Hamiltonians for the fractional quantum Hall regime in GaAs and graphene. Physical Review B, 2013, 87, .	3.2	73
16	Phase Diagram of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î½</mml:mi><mml:mo>=</mml:mo><mml:mn>5</mml:mn><mml:mo stretchy="false">/</mml:mo><mml:mn>2</mml:mn></mml:math>Fractional Quantum Hall Effect: Effects of Landau-Level Mixing and Nonzero Width. Physical Review X, 2015, 5, .	8.9	70
17	Long-Range Prethermal Phases of Nonequilibrium Matter. Physical Review X, 2020, 10, .	8.9	61
18	Prethermal Strong Zero Modes and Topological Qubits. Physical Review X, 2017, 7, .	8.9	60

#	Article	IF	Citations
19	Dephasing of Majorana-based qubits. Physical Review B, 2018, 97, .	3.2	60
20	Bilayer paired quantum Hall states and Coulomb drag. Physical Review B, 2001, 63, .	3.2	57
21	Isotropic to anisotropic transition in a fractional quantum Hall state. Physical Review B, 2010, 82, .	3.2	48
22	Effects of Landau Level Mixing on the Fractional Quantum Hall Effect in Monolayer Graphene. Physical Review Letters, 2014, 113, 086401.	7.8	46
23	Exponentially slow heating in short and long-range interacting Floquet systems. Physical Review Research, 2019, 1, .	3.6	40
24	Short-range entangled bosonic states with chiral edge modes and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>T</mml:mi></mml:math>duality of heterotic strings. Physical Review B, 2013, 88, .	3.2	23
25	Chirality-protected Majorana zero modes at the gapless edge of Abelian quantum Hall states. Physical Review B, 2015, 92, .	3.2	13
26	Energy spectrum and current-phase relation of a nanowire Josephson junction close to the topological transition. Physical Review B, 2020, 101, .	3.2	11
27	Marching to a different quantum beat. Nature, 2017, 543, 185-186.	27.8	9
28	Majorana zero modes in semiconductor nanowires in contact with higher-Tcsuperconductors. Physical Review B, 2012, 86, .	3.2	5
29	Microwave absorption by a mesoscopic quantum Hall droplet. Physical Review B, 2013, 88, .	3.2	5
30	Almost Perfect Metals in One Dimension. Physical Review Letters, 2020, 124, 136801.	7.8	4
31	Full tilt. Nature Physics, 2011, 7, 836-836.	16.7	2
32	Unexpected tunneling current from downstream neutral modes. Physical Review B, 2014, 90, .	3.2	2
33	Transport in a one-dimensional hyperconductor. Physical Review B, 2016, 93, .	3.2	2
34	Quantum critical dynamics of a Josephson junction at the topological transition. Physical Review B, 2021, 104, .	3.2	0