

# 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	Observation of a prethermal discrete time crystal. <i>Science</i> , 2021, 372, 1192-1196.	6.0	93
2	Quantum critical dynamics of a Josephson junction at the topological transition. <i>Physical Review B</i> , 2021, 104, .	1.1	0
3	Energy spectrum and current-phase relation of a nanowire Josephson junction close to the topological transition. <i>Physical Review B</i> , 2020, 101, .	1.1	11
4	Discrete Time Crystals. <i>Annual Review of Condensed Matter Physics</i> , 2020, 11, 467-499.	5.2	146
5	Flux-induced topological superconductivity in full-shell nanowires. <i>Science</i> , 2020, 367, .	6.0	129
6	Almost Perfect Metals in One Dimension. <i>Physical Review Letters</i> , 2020, 124, 136801.	2.9	4
7	Classical discrete time crystals. <i>Nature Physics</i> , 2020, 16, 438-447.	6.5	85
8	Long-Range Prethermal Phases of Nonequilibrium Matter. <i>Physical Review X</i> , 2020, 10, .	2.8	61
9	Observation of the $4\pi$ -periodic Josephson effect in indium arsenide nanowires. <i>Nature Communications</i> , 2019, 10, 245.	5.8	113
10	Exponentially slow heating in short and long-range interacting Floquet systems. <i>Physical Review Research</i> , 2019, 1, .	1.3	40
11	Dephasing of Majorana-based qubits. <i>Physical Review B</i> , 2018, 97, .	1.1	60
12	Marching to a different quantum beat. <i>Nature</i> , 2017, 543, 185-186.	13.7	9
13	Prethermal Phases of Matter Protected by Time-Translation Symmetry. <i>Physical Review X</i> , 2017, 7, .	2.8	229
14	Prethermal Strong Zero Modes and Topological Qubits. <i>Physical Review X</i> , 2017, 7, .	2.8	60
15	Floquet Time Crystals. <i>Physical Review Letters</i> , 2016, 117, 090402.	2.9	645
16	Transport in a one-dimensional hyperconductor. <i>Physical Review B</i> , 2016, 93, .	1.1	2
17	Classification of topological phases in periodically driven interacting systems. <i>Physical Review B</i> , 2016, 93, .	1.1	180
18	Two-dimensional epitaxial superconductor-semiconductor heterostructures: A platform for topological superconducting networks. <i>Physical Review B</i> , 2016, 93, .	1.1	211

#	ARTICLE	IF	CITATIONS
19	Chirality-protected Majorana zero modes at the gapless edge of Abelian quantum Hall states. Physical Review B, 2015, 92, .	1.1	13
20	Phase Diagram of the $\nu = 5/2$ Fractional Quantum Hall Effect: Effects of Landau-Level Mixing and Nonzero Width. Physical Review X, 2015, 5, .	2.8	70
21	Majorana zero modes and topological quantum computation. Npj Quantum Information, 2015, 1, .	2.8	730
22	Unexpected tunneling current from downstream neutral modes. Physical Review B, 2014, 90, .	1.1	2
23	Classifying symmetry-protected topological phases through the anomalous action of the symmetry on the edge. Physical Review B, 2014, 90, .	1.1	98
24	Effects of Landau Level Mixing on the Fractional Quantum Hall Effect in Monolayer Graphene. Physical Review Letters, 2014, 113, 086401.	2.9	46
25	More realistic Hamiltonians for the fractional quantum Hall regime in GaAs and graphene. Physical Review B, 2013, 87, .	1.1	73
26	Microwave absorption by a mesoscopic quantum Hall droplet. Physical Review B, 2013, 88, .	1.1	5
27	Origin and transport signatures of spin-orbit interactions in one- and two-dimensional SrTiO <sub>3</sub> -based heterostructures. Physical Review B, 2013, 87, .	1.1	85
28	Short-range entangled bosonic states with chiral edge modes and $T$ -duality of heterotic strings. Physical Review B, 2013, 88, .	1.1	23
29	Majorana zero modes in semiconductor nanowires in contact with higher-Tc superconductors. Physical Review B, 2012, 86, .	1.1	5
30	Full tilt. Nature Physics, 2011, 7, 836-836.	6.5	2
31	Isotropic to anisotropic transition in a fractional quantum Hall state. Physical Review B, 2010, 82, .	1.1	48
32	Non-Abelian anyons and topological quantum computation. Reviews of Modern Physics, 2008, 80, 1083-1159.	16.4	4,907
33	Topologically Protected Qubits from a Possible Non-Abelian Fractional Quantum Hall State. Physical Review Letters, 2005, 94, 166802.	2.9	546
34	Bilayer paired quantum Hall states and Coulomb drag. Physical Review B, 2001, 63, .	1.1	57