

Haruki Watanabe

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

2,064
citations

23
h-index

45
g-index

55
ext. papers

2,766
ext. citations

6.3
avg, IF

6.07
L-index

#	Paper	IF	Citations
46	Bloch oscillations in the spin-12 XXZ chain. <i>Physical Review B</i> , 2021 , 104,	3.3	1
45	qeirreps: An open-source program for Quantum ESPRESSO to compute irreducible representations of Bloch wavefunctions. <i>Computer Physics Communications</i> , 2021 , 264, 107948	4.2	2
44	Refined symmetry indicators for topological superconductors in all space groups. <i>Science Advances</i> , 2020 , 6, eaaz8367	14.3	21
43	Proof of the Absence of Long-Range Temporal Orders in Gibbs States. <i>Journal of Statistical Physics</i> , 2020 , 178, 926-935	1.5	11
42	Counting Rules of Nambu-Goldstone Modes. <i>Annual Review of Condensed Matter Physics</i> , 2020 , 11, 169-187.	17.7	23
41	Corner charge and bulk multipole moment in periodic systems. <i>Physical Review B</i> , 2020 , 102,	3.3	12
40	Generalized f-sum rules and Kohn formulas on nonlinear conductivities. <i>Physical Review B</i> , 2020 , 102,	3.3	6
39	On the General Properties of Non-linear Optical Conductivities. <i>Journal of Statistical Physics</i> , 2020 , 181, 2050-2070	1.5	3
38	A Proof of the Bloch Theorem for Lattice Models. <i>Journal of Statistical Physics</i> , 2019 , 177, 717-726	1.5	4
37	Fragile topological phases in interacting systems. <i>Physical Review B</i> , 2019 , 99,	3.3	25
36	Many-Body Chern Number without Integration. <i>Physical Review Letters</i> , 2019 , 122, 146601	7.4	20
35	Geometric orbital magnetization in adiabatic processes. <i>Physical Review B</i> , 2019 , 100,	3.3	12
34	Symmetry indicators for topological superconductors. <i>Physical Review Research</i> , 2019 , 1,	3.9	26
33	Difficulties in operator-based formulation of the bulk quadrupole moment. <i>Physical Review B</i> , 2019 , 100,	3.3	26
32	Universal Relation among the Many-Body Chern Number, Rotation Symmetry, and Filling. <i>Physical Review Letters</i> , 2018 , 120, 096601	7.4	10
31	Lieb-Schultz-Mattis-type filling constraints in the 1651 magnetic space groups. <i>Physical Review B</i> , 2018 , 97,	3.3	6
30	Structure and topology of band structures in the 1651 magnetic space groups. <i>Science Advances</i> , 2018 , 4, eaat8685	14.3	113

29	Inequivalent Berry Phases for the Bulk Polarization. <i>Physical Review X</i> , 2018 , 8,	9.1	19
28	Connecting higher-order topological insulators to lower-dimensional topological insulators. <i>Physical Review B</i> , 2018 , 98,	3.3	59
27	Space Group Theory of Photonic Bands. <i>Physical Review Letters</i> , 2018 , 121, 263903	7.4	18
26	Symmetry Indicators and Anomalous Surface States of Topological Crystalline Insulators. <i>Physical Review X</i> , 2018 , 8,	9.1	111
25	Unified understanding of symmetry indicators for all internal symmetry classes. <i>Physical Review B</i> , 2018 , 98,	3.3	43
24	Insensitivity of bulk properties to the twisted boundary condition. <i>Physical Review B</i> , 2018 , 98,	3.3	17
23	Fragile Topology and Wannier Obstructions. <i>Physical Review Letters</i> , 2018 , 121, 126402	7.4	130
22	Topological crystalline magnets: Symmetry-protected topological phases of fermions. <i>Physical Review B</i> , 2017 , 95,	3.3	8
21	Lattice Homotopy Constraints on Phases of Quantum Magnets. <i>Physical Review Letters</i> , 2017 , 119, 127202	7.4	29
20	Energy Gap of Neutral Excitations Implies Vanishing Charge Susceptibility. <i>Physical Review Letters</i> , 2017 , 118, 117205	7.4	1
19	Symmetry-based indicators of band topology in the 230 space groups. <i>Nature Communications</i> , 2017 , 8, 50	17.4	321
18	Filling-Enforced Gaplessness in Band Structures of the 230 Space Groups. <i>Physical Review Letters</i> , 2016 , 117, 096404	7.4	80
17	Electric Field-Induced Skyrmion Crystals via Charged Monopoles in Insulating Helimagnets. <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 064707	1.5	3
16	Filling-enforced quantum band insulators in spin-orbit coupled crystals. <i>Science Advances</i> , 2016 , 2, e1501782	17.4	28
15	Filling constraints for spin-orbit coupled insulators in symmorphic and nonsymmorphic crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14551-6	11.5	102
14	Absence of Quantum Time Crystals. <i>Physical Review Letters</i> , 2015 , 114, 251603	7.4	194
13	Anomalous Fermi-liquid phase in metallic skyrmion crystals. <i>Physical Review B</i> , 2014 , 90,	3.3	17
12	Effective Lagrangian for Nonrelativistic Systems. <i>Physical Review X</i> , 2014 , 4,	9.1	45

11	Noncommuting momenta of topological solitons. <i>Physical Review Letters</i> , 2014 , 112, 191804	7.4	20
10	Spontaneously broken non-Abelian gauge symmetries in nonrelativistic systems. <i>Physical Review D</i> , 2014 , 90,	4.9	8
9	Spontaneous breaking of spacetime symmetries and the inverse Higgs effect. <i>Physical Review D</i> , 2014 , 89,	4.9	37
8	Nambu-Goldstone bosons with fractional-power dispersion relations. <i>Physical Review D</i> , 2014 , 89,	4.9	20
7	Criterion for stability of Goldstone modes and Fermi liquid behavior in a metal with broken symmetry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16314-8	11.5	28
6	Redundancies in Nambu-Goldstone bosons. <i>Physical Review Letters</i> , 2013 , 110, 181601	7.4	74
5	Massive Nambu-Goldstone bosons. <i>Physical Review Letters</i> , 2013 , 111, 021601	7.4	43
4	Spontaneous breaking of continuous translational invariance. <i>Physical Review D</i> , 2012 , 85,	4.9	25
3	Unified description of Nambu-Goldstone bosons without Lorentz invariance. <i>Physical Review Letters</i> , 2012 , 108, 251602	7.4	145
2	Number of Nambu-Goldstone bosons and its relation to charge densities. <i>Physical Review D</i> , 2011 , 84,	4.9	71
1	Half-integer contributions to the quantum Hall conductivity from single Dirac cones. <i>Physical Review B</i> , 2010 , 82,	3.3	39