

# Pontus Laurell

## List of Publications by Year in descending order

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16  
papers

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citations

759233

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940533

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17  
docs citations

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times ranked

744  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-exchange Hamiltonian and topological degeneracies in elemental gadolinium. Physical Review B, 2022, 105, .	3.2	6
2	Dirac Magnons, Nodal Lines, and Nodal Plane in Elemental Gadolinium. Physical Review Letters, 2022, 128, 097201.	7.8	13
3	Extraction of interaction parameters for $\hat{H}_{\pm}$ from neutron data using machine learning. Physical Review Research, 2022, 4, .	3.2	10
4	Van Hove singularity in the magnon spectrum of the antiferromagnetic quantum honeycomb lattice. Nature Communications, 2021, 12, 171.	12.8	24
5	Witnessing entanglement in quantum magnets using neutron scattering. Physical Review B, 2021, 103, .	3.2	39
6	Quantifying and Controlling Entanglement in the Quantum Magnet $\hat{H}_{\pm}$ . Physical Review Letters, 2021, 127, 037201.	7.8	38
7	Dynamical and thermal magnetic properties of the Kitaev spin liquid candidate $\hat{H}_{\pm}$ -RuCl <sub>3</sub> . Npj Quantum Materials, 2020, 5, .	5.2	57
8	Resummation of the Holstein-Primakoff expansion and differential equation approach to operator square roots. Physical Review Research, 2020, 2, .	3.6	12
9	Deriving models for the Kitaev spin-liquid candidate material $\hat{H}_{\pm}$ from first principles. Physical Review B, 2019, 100, .	3.2	11
10	Analog of Hamilton-Jacobi theory for the time-evolution operator. Physical Review A, 2019, 100, .	2.5	13
11	Flow Equation Approach to Periodically Driven Quantum Systems. Physical Review X, 2019, 9, .	8.9	44
12	Momentum-space entanglement after a quench in one-dimensional disordered fermionic systems. Physical Review B, 2019, 100, .	3.2	11
13	Magnon thermal Hall effect in kagome antiferromagnets with Dzyaloshinskii-Moriya interactions. Physical Review B, 2018, 98, .	3.2	65
14	Topological Magnon Bands and Unconventional Superconductivity in Pyrochlore Iridate Thin Films. Physical Review Letters, 2017, 118, 177201.	7.8	50
15	Universal entanglement spectra in critical spin chains. Physical Review B, 2016, 94, .	3.2	13
16	Thermoelectric properties of Weyl and Dirac semimetals. Physical Review B, 2014, 90, .	3.2	191