

# Benoît Vermersch

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/852318/publications.pdf>

Version: 2024-02-01

39  
papers

2,176  
citations

257429

24  
h-index

345203

36  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1461  
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing Rényi entanglement entropy via randomized measurements. <i>Science</i> , 2019, 364, 260-263.	12.6	375
2	Rényi Entropies from Random Quenches in Atomic Hubbard and Spin Models. <i>Physical Review Letters</i> , 2018, 120, 050406.	7.8	159
3	Mixed-State Entanglement from Local Randomized Measurements. <i>Physical Review Letters</i> , 2020, 125, 200501.	7.8	136
4	Quantum Information Scrambling in a Trapped-Ion Quantum Simulator with Tunable Range Interactions. <i>Physical Review Letters</i> , 2020, 124, 240505.	7.8	102
5	Quantum State Transfer via Noisy Photonic and Phononic Waveguides. <i>Physical Review Letters</i> , 2017, 118, 133601.	7.8	100
6	Subradiant Bell States in Distant Atomic Arrays. <i>Physical Review Letters</i> , 2019, 122, 093601.	7.8	92
7	Non-Markovian dynamics in chiral quantum networks with spins and photons. <i>Physical Review A</i> , 2016, 93, .	2.5	91
8	Statistical correlations between locally randomized measurements: A toolbox for probing entanglement in many-body quantum states. <i>Physical Review A</i> , 2019, 99, .	2.5	89
9	Quantum simulation and spectroscopy of entanglement Hamiltonians. <i>Nature Physics</i> , 2018, 14, 827-831.	16.7	83
10	Symmetry-resolved entanglement detection using partial transpose moments. <i>Npj Quantum Information</i> , 2021, 7, .	6.7	81
11	Cross-Platform Verification of Intermediate Scale Quantum Devices. <i>Physical Review Letters</i> , 2020, 124, 010504.	7.8	78
12	Unitary designs via random quenches in atomic Hubbard and spin models: Application to the measurement of Rényi entropies. <i>Physical Review A</i> , 2018, 97, .	2.5	68
13	Emerging Two-Dimensional Gauge Theories in Rydberg Configurable Arrays. <i>Physical Review X</i> , 2020, 10, .	8.9	63
14	Probing Scrambling Using Statistical Correlations between Randomized Measurements. <i>Physical Review X</i> , 2019, 9, .	8.9	62
15	Free-space photonic quantum link and chiral quantum optics. <i>Physical Review A</i> , 2018, 98, .	2.5	57
16	Many-body topological invariants from randomized measurements in synthetic quantum matter. <i>Science Advances</i> , 2020, 6, eaaz3666.	10.3	54
17	Robust quantum state transfer via topologically protected edge channels in dipolar arrays. <i>Quantum Science and Technology</i> , 2017, 2, 015001.	5.8	53
18	Entanglement Hamiltonian tomography in quantum simulation. <i>Nature Physics</i> , 2021, 17, 936-942.	16.7	51

#	ARTICLE	IF	CITATIONS
19	Symmetry-resolved dynamical purification in synthetic quantum matter. <i>SciPost Physics</i> , 2022, 12, .	4.9	47
20	How Nonlinear Interactions Challenge the Three-Dimensional Anderson Transition. <i>Physical Review Letters</i> , 2014, 112, 170603.	7.8	42
21	A unidirectional on-chip photonic interface for superconducting circuits. <i>Npj Quantum Information</i> , 2020, 6, .	6.7	42
22	Many-Body Chern Number from Statistical Correlations of Randomized Measurements. <i>Physical Review Letters</i> , 2021, 126, 050501.	7.8	36
23	Implementation of chiral quantum optics with Rydberg and trapped-ion setups. <i>Physical Review A</i> , 2016, 93, .	2.5	35
24	Quantum Fisher Information from Randomized Measurements. <i>Physical Review Letters</i> , 2021, 127, 260501.	7.8	33
25	Quantum Variational Learning of the Entanglement Hamiltonian. <i>Physical Review Letters</i> , 2021, 127, 170501.	7.8	24
26	Deterministic quantum state transfer between remote qubits in cavities. <i>Quantum Science and Technology</i> , 2017, 2, 045003.	5.8	22
27	Probing Many-Body Quantum Chaos with Quantum Simulators. <i>Physical Review X</i> , 2022, 12, .	8.9	20
28	Importance Sampling of Randomized Measurements for Probing Entanglement. <i>Physical Review Letters</i> , 2021, 127, 200503.	7.8	19
29	Dynamical preparation of laser-excited anisotropic Rydberg crystals in 2D optical lattices. <i>New Journal of Physics</i> , 2015, 17, 013008.	2.9	16
30	Magic distances in the blockade mechanism of Rydberg $p$ and $d$ states. <i>Physical Review A</i> , 2015, 91, .	2.5	14
31	Interacting ultracold bosons in disordered lattices: Sensitivity of the dynamics to the initial state. <i>Physical Review E</i> , 2012, 85, 046213.	2.1	7
32	Emergence of nonlinear behavior in the dynamics of ultracold bosons. <i>Physical Review A</i> , 2015, 91, .	2.5	7
33	Quantum simulation and optimization in hot quantum networks. <i>Physical Review B</i> , 2019, 99, .	3.2	7
34	Bogoliubov excitations in the quasiperiodic kicked rotor: Stability of a kicked condensate and the quasi-insulator-to-metal transition. <i>Physical Review A</i> , 2020, 101, .	2.5	5
35	Spectral description of the dynamics of ultracold interacting bosons in disordered lattices. <i>New Journal of Physics</i> , 2013, 15, 045030.	2.9	4
36	Adiabatic state preparation of stripe phases with strongly magnetic atoms. <i>Physical Review A</i> , 2017, 96, .	2.5	2

#	ARTICLE	IF	CITATIONS
37	Parametric frequency Downconversion devices in periodically poled mg-doped stoichiometric Lithium Tantalate. , 2010, , .		0
38	Decoherence effects in the dynamics of interacting ultracold bosons in disordered lattices. European Physical Journal: Special Topics, 2013, 217, 109-119.	2.6	0
39	Anisotropy and state mixing in the interactions between Rydberg states. European Physical Journal: Special Topics, 2016, 225, 2977-2991.	2.6	0