

# Jake Rochman

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10740512/publications.pdf>

Version: 2024-02-01

20  
papers

1,145  
citations

840776

11  
h-index

1125743

13  
g-index

20  
all docs

20  
docs citations

20  
times ranked

1283  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nuclear spin-wave quantum register for a solid-state qubit. Nature, 2022, 602, 408-413.	27.8	46
2	Characterization of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Er} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \text{mathvariant="normal"} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ for microwave to optical transduction. Physical Review B, 2021, 104, .	3.2	10
3	Multifunctional on-chip storage at telecommunication wavelength for quantum networks. Optica, 2021, 8, 114.	9.3	43
4	Control and single-shot readout of an ion embedded in a nanophotonic cavity. Nature, 2020, 580, 201-204.	27.8	138
5	On-chip coherent microwave-to-optical transduction mediated by ytterbium in YVO4. Nature Communications, 2020, 11, 3266.	12.8	87
6	Single rare-earth ion spins in nanophotonic resonators. , 2020, , .		0
7	Nanophotonic Quantum Storage at Telecommunication Wavelength. Physical Review Applied, 2019, 12, .	3.8	46
8	Toward Coherent Control of Single Yb <sup>3+</sup> Ions in a Nanophotonic Cavity. , 2019, , .		0
9	Optically Addressing Single Rare-Earth Ions in a Nanophotonic Cavity. Physical Review Letters, 2018, 121, 183603.	7.8	129
10	Controlling rare-earth ions in a nanophotonic resonator using the ac Stark shift. Physical Review A, 2018, 97, .	2.5	9
11	A nanophotonic platform integrating quantum memories and single rare-earth ions. , 2018, , .		0
12	Interfacing broadband photonic qubits to on-chip cavity-protected rare-earth ensembles. Nature Communications, 2017, 8, 14107.	12.8	54
13	Towards an efficient nanophotonic platform integrating quantum memories and single qubits based on rare-earth ions. , 2017, , .		0
14	Nanophotonic rare-earth quantum memory with optically controlled retrieval. Science, 2017, 357, 1392-1395.	12.6	221
15	Nanophotonic atomic-frequency-comb quantum memory based on a rare-earth doped photonic crystal cavity. , 2017, , .		0
16	High quality factor nanophotonic resonators in bulk rare-earth doped crystals. Optics Express, 2016, 24, 536.	3.4	39
17	Diamond optomechanical crystals. Optica, 2016, 3, 1404.	9.3	125
18	On-chip quantum storage in a rare-earth-doped photonic nanocavity. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
19	50 GHz quantum photonic storage in a cavity-protected rare-earth ensemble. , 2016, , .		1
20	High quality-factor optical nanocavities in bulk single-crystal diamond. Nature Communications, 2014, 5, 5718.	12.8	196