

# Alexander O Sushkov

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1866612/publications.pdf>

Version: 2024-02-01

22  
papers

1,405  
citations

471509

17  
h-index

677142

22  
g-index

22  
all docs

22  
docs citations

22  
times ranked

1465  
citing authors

#	ARTICLE	IF	CITATIONS
1	Proposal for a Cosmic Axion Spin Precession Experiment (CASPEr). <i>Physical Review X</i> , 2014, 4, .	8.9	265
2	Nanoscale NMR spectroscopy and imaging of multiple nuclear species. <i>Nature Nanotechnology</i> , 2015, 10, 129-134.	31.5	215
3	Probing the frontiers of particle physics with tabletop-scale experiments. <i>Science</i> , 2017, 357, 990-994.	12.6	110
4	NMR technique for determining the depth of shallow nitrogen-vacancy centers in diamond. <i>Physical Review B</i> , 2016, 93, .	3.2	107
5	Search for axion-like dark matter with ferromagnets. <i>Nature Physics</i> , 2021, 17, 79-84.	16.7	96
6	Search for Axionlike Dark Matter with a Liquid-State Nuclear Spin Comagnetometer. <i>Physical Review Letters</i> , 2019, 122, 191302.	7.8	79
7	Constraints on bosonic dark matter from ultralow-field nuclear magnetic resonance. <i>Science Advances</i> , 2019, 5, eaax4539.	10.3	75
8	Stochastic fluctuations of bosonic dark matter. <i>Nature Communications</i> , 2021, 12, 7321.	12.8	59
9	A method for directional detection of dark matter using spectroscopy of crystal defects. <i>Physical Review D</i> , 2017, 96, .	4.7	54
10	Search for Axionlike Dark Matter Using Solid-State Nuclear Magnetic Resonance. <i>Physical Review Letters</i> , 2021, 126, 141802.	7.8	51
11	Application of spin-exchange relaxation-free magnetometry to the Cosmic Axion Spin Precession Experiment. <i>Physics of the Dark Universe</i> , 2018, 19, 27-35.	4.9	50
12	The cosmic axion spin precession experiment (CASPEr): a dark-matter search with nuclear magnetic resonance. <i>Quantum Science and Technology</i> , 2018, 3, 014008.	5.8	48
13	Precessing Ferromagnetic Needle Magnetometer. <i>Physical Review Letters</i> , 2016, 116, 190801.	7.8	47
14	Dynamics of a Ferromagnetic Particle Levitated over a Superconductor. <i>Physical Review Applied</i> , 2019, 11, .	3.8	32
15	Exploring 2D Synthetic Quantum Hall Physics with a Quasiperiodically Driven Qubit. <i>Physical Review Letters</i> , 2020, 125, 160505.	7.8	30
16	Floquet-engineered quantum state manipulation in a noisy qubit. <i>Physical Review A</i> , 2019, 100, .	2.5	20
17	Gravity Probe Spin: Prospects for measuring general-relativistic precession of intrinsic spin using a ferromagnetic gyroscope. <i>Physical Review D</i> , 2021, 103, .	4.7	18
18	Spectral signatures of axionlike dark matter. <i>Physical Review D</i> , 2022, 105, .	4.7	15

#	ARTICLE	IF	CITATIONS
19	Ferromagnetic gyroscopes for tests of fundamental physics. Quantum Science and Technology, 2021, 6, 024006.	5.8	12
20	Quantum sensitivity limits of nuclear magnetic resonance experiments searching for new fundamental physics. Quantum Science and Technology, 2021, 6, 034007.	5.8	10
21	Surpassing the Energy Resolution Limit with Ferromagnetic Torque Sensors. Physical Review Letters, 2021, 127, 070801.	7.8	10
22	Wu et al. Reply:. Physical Review Letters, 2019, 123, 169002.	7.8	2