

Ashok Ajoy

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8732832/publications.pdf>

Version: 2024-02-01

38
papers

1,030
citations

361388

20
h-index

414395

32
g-index

38
all docs

38
docs citations

38
times ranked

1022
citing authors

#	ARTICLE	IF	CITATIONS
1	Stable three-axis nuclear-spin gyroscope in diamond. <i>Physical Review A</i> , 2012, 86, .	2.5	107
2	Orientation-independent room temperature optical ¹³ C hyperpolarization in powdered diamond. <i>Science Advances</i> , 2018, 4, eaar5492.	10.3	91
3	Optimal pulse spacing for dynamical decoupling in the presence of a purely dephasing spin bath. <i>Physical Review A</i> , 2011, 83, .	2.5	86
4	Performance comparison of dynamical decoupling sequences for a qubit in a rapidly fluctuating spin bath. <i>Physical Review A</i> , 2010, 82, .	2.5	80
5	Atomic-Scale Nuclear Spin Imaging Using Quantum-Assisted Sensors in Diamond. <i>Physical Review X</i> , 2015, 5, .	8.9	57
6	Quantum Simulation via Filtered Hamiltonian Engineering: Application to Perfect Quantum Transport in Spin Networks. <i>Physical Review Letters</i> , 2013, 110, 220503.	7.8	48
7	Enhanced dynamic nuclear polarization via swept microwave frequency combs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10576-10581.	7.1	45
8	Multispin-assisted optical pumping of bulk C^{13} nuclear spin polarization in diamond. <i>Physical Review B</i> , 2018, 97, .	3.2	42
9	Svetlichny's inequality and genuine tripartite nonlocality in three-qubit pure states. <i>Physical Review A</i> , 2010, 81, .	2.5	38
10	Bright nanowire single photon source based on SiV centers in diamond. <i>Optics Express</i> , 2018, 26, 80.	3.4	37
11	Hyperpolarized relaxometry based nuclear T1 noise spectroscopy in diamond. <i>Nature Communications</i> , 2019, 10, 5160.	12.8	31
12	Nanoscale Vector dc Magnetometry via Ancilla-Assisted Frequency Up-Conversion. <i>Physical Review Letters</i> , 2019, 122, 100501.	7.8	30
13	Dynamics of frequency-swept nuclear spin optical pumping in powdered diamond at low magnetic fields. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2512-2520.	7.1	28
14	Quantum interpolation for high-resolution sensing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2149-2153.	7.1	25
15	Floquet Prethermalization with Lifetime Exceeding 90 μ s in a Bulk Hyperpolarized Solid. <i>Physical Review Letters</i> , 2021, 127, 170603.	7.8	25
16	Decay of spin coherences in one-dimensional spin systems. <i>New Journal of Physics</i> , 2013, 15, 093035.	2.9	24
17	Room temperature ϵ -optical nanodiamond hyperpolarizer ϵ . <i>Physics, design, and operation. Review of Scientific Instruments</i> , 2020, 91, 023106.	1.3	24
18	Evolution-Free Hamiltonian Parameter Estimation through Zeeman Markers. <i>Physical Review Letters</i> , 2017, 119, 030402.	7.8	22

#	ARTICLE	IF	CITATIONS
19	Cross-Sensor Feedback Stabilization of an Emulated Quantum Spin Gyroscope. <i>Physical Review Applied</i> , 2019, 11, .	3.8	22
20	Carbon-13 dynamic nuclear polarization in diamond via a microwave-free integrated cross effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18334-18340.	7.1	20
21	Optically pumped spin polarization as a probe of many-body thermalization. <i>Science Advances</i> , 2020, 6, .	10.3	18
22	Perfect quantum transport in arbitrary spin networks. <i>Physical Review B</i> , 2013, 87, .	3.2	16
23	Mixed-state quantum transport in correlated spin networks. <i>Physical Review A</i> , 2012, 85, .	2.5	15
24	Two-Electron-Spin Ratchets as a Platform for Microwave-Free Dynamic Nuclear Polarization of Arbitrary Material Targets. <i>Nano Letters</i> , 2019, 19, 2389-2396.	9.1	14
25	Background-free dual-mode optical and ¹³ C magnetic resonance imaging in diamond particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13
26	Dynamical Hamiltonian engineering of 2D rectangular lattices in a one-dimensional ion chain. <i>Npj Quantum Information</i> , 2019, 5, .	6.7	12
27	Algorithmic approach to simulate Hamiltonian dynamics and an NMR simulation of quantum state transfer. <i>Physical Review A</i> , 2012, 85, .	2.5	11
28	Wide dynamic range magnetic field cyler: Harnessing quantum control at low and high fields. <i>Review of Scientific Instruments</i> , 2019, 90, 013112.	1.3	11
29	Selective Decoupling and Hamiltonian Engineering in Dipolar Spin Networks. <i>Physical Review Letters</i> , 2019, 122, 013205.	7.8	8
30	Enhanced Optical ¹³ C Hyperpolarization in Diamond Treated by High-Temperature Rapid Thermal Annealing. <i>Advanced Quantum Technologies</i> , 2020, 3, 2000050.	3.9	8
31	High-fidelity Trotter formulas for digital quantum simulation. <i>Physical Review A</i> , 2020, 102, .	2.5	6
32	Magnetic field induced delocalization in hybrid electron-nuclear spin ensembles. <i>Physical Review B</i> , 2021, 103, .	3.2	6
33	Beauty beyond the Eye: Color Centers in Diamond Particles for Imaging and Quantum Sensing Applications. <i>Reviews and Advances in Chemistry</i> , 2022, 12, 1-21.	0.5	4
34	Nuclear spin temperature reversal via continuous radio-frequency driving. <i>Physical Review B</i> , 2021, 103, .	3.2	3
35	Low-field microwave-mediated optical hyperpolarization in optically pumped diamond. <i>Journal of Magnetic Resonance</i> , 2021, 331, 107021.	2.1	2
36	Imaging Sequences for Hyperpolarized Solids. <i>Molecules</i> , 2021, 26, 133.	3.8	1

#	ARTICLE	IF	CITATIONS
37	G N Ramachandran's contributions to medical imaging. Resonance, 2016, 21, 741-747.	0.3	0
38	10.1063/1.5131655.1., 2020,,.		0