

Ashok Ajoy

List of Publications by Year in descending order

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38
papers

1,030
citations

361388

20
h-index

414395

32
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38
all docs

38
docs citations

38
times ranked

1022
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Nuclear spin temperature reversal via continuous radio-frequency driving. <i>Physical Review B</i> , 2021, 103, .	3.2	3
3	Magnetic field induced delocalization in hybrid electron-nuclear spin ensembles. <i>Physical Review B</i> , 2021, 103, .	3.2	6
4	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
5	Low-field microwave-mediated optical hyperpolarization in optically pumped diamond. <i>Journal of Magnetic Resonance</i> , 2021, 331, 107021.	2.1	2
6	Imaging Sequences for Hyperpolarized Solids. <i>Molecules</i> , 2021, 26, 133.	3.8	1
7	Floquet Prethermalization with Lifetime Exceeding 90 μs in a Bulk Hyperpolarized Solid. <i>Physical Review Letters</i> , 2021, 127, 170603.	7.8	25
8	High-fidelity Trotter formulas for digital quantum simulation. <i>Physical Review A</i> , 2020, 102, .	2.5	6
9	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
10	Optically pumped spin polarization as a probe of many-body thermalization. <i>Science Advances</i> , 2020, 6, .	10.3	18
11	Room temperature ϵ -optical nanodiamond hyperpolarizer ϵ . Physics, design, and operation. <i>Review of Scientific Instruments</i> , 2020, 91, 023106.	1.3	24
12	10.1063/1.5131655.1. , 2020, , .		0
13	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
14	Dynamical Hamiltonian engineering of 2D rectangular lattices in a one-dimensional ion chain. <i>Npj Quantum Information</i> , 2019, 5, .	6.7	12
15	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
16	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
17	Cross-Sensor Feedback Stabilization of an Emulated Quantum Spin Gyroscope. <i>Physical Review Applied</i> , 2019, 11, .	3.8	22
18	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

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19	Nanoscale Vector dc Magnetometry via Ancilla-Assisted Frequency Up-Conversion. Physical Review Letters, 2019, 122, 100501.	7.8	30
20	Hyperpolarized relaxometry based nuclear T1 noise spectroscopy in diamond. Nature Communications, 2019, 10, 5160.	12.8	31
21	Selective Decoupling and Hamiltonian Engineering in Dipolar Spin Networks. Physical Review Letters, 2019, 122, 013205.	7.8	8
22	Multispin-assisted optical pumping of bulk ^{13}C nuclear spin polarization in diamond. Physical Review B, 2018, 97, .	3.2	42
23	Enhanced dynamic nuclear polarization via swept microwave frequency combs. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10576-10581.	7.1	45
24	Orientation-independent room temperature optical ^{13}C hyperpolarization in powdered diamond. Science Advances, 2018, 4, eaar5492.	10.3	91
25	Bright nanowire single photon source based on SiV centers in diamond. Optics Express, 2018, 26, 80.	3.4	37
26	Quantum interpolation for high-resolution sensing. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2149-2153.	7.1	25
27	Evolution-Free Hamiltonian Parameter Estimation through Zeeman Markers. Physical Review Letters, 2017, 119, 030402.	7.8	22
28	G N Ramachandran's contributions to medical imaging. Resonance, 2016, 21, 741-747.	0.3	0
29	Atomic-Scale Nuclear Spin Imaging Using Quantum-Assisted Sensors in Diamond. Physical Review X, 2015, 5, .	8.9	57
30	Perfect quantum transport in arbitrary spin networks. Physical Review B, 2013, 87, .	3.2	16
31	Quantum Simulation via Filtered Hamiltonian Engineering: Application to Perfect Quantum Transport in Spin Networks. Physical Review Letters, 2013, 110, 220503.	7.8	48
32	Decay of spin coherences in one-dimensional spin systems. New Journal of Physics, 2013, 15, 093035.	2.9	24
33	Stable three-axis nuclear-spin gyroscope in diamond. Physical Review A, 2012, 86, .	2.5	107
34	Mixed-state quantum transport in correlated spin networks. Physical Review A, 2012, 85, .	2.5	15
35	Algorithmic approach to simulate Hamiltonian dynamics and an NMR simulation of quantum state transfer. Physical Review A, 2012, 85, .	2.5	11
36	Optimal pulse spacing for dynamical decoupling in the presence of a purely dephasing spin bath. Physical Review A, 2011, 83, .	2.5	86

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37	Performance comparison of dynamical decoupling sequences for a qubit in a rapidly fluctuating spin bath. Physical Review A, 2010, 82, .	2.5	80
38	Svetlichnyâ€™s inequality and genuine tripartite nonlocality in three-qubit pure states. Physical Review A, 2010, 81, .	2.5	38