

# Liam Hall

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5022221/publications.pdf>

Version: 2024-02-01

37  
papers

2,571  
citations

236833

25  
h-index

360920

35  
g-index

38  
all docs

38  
docs citations

38  
times ranked

2300  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prospects for nuclear spin hyperpolarization of molecular samples using nitrogen-vacancy centers in diamond. <i>Physical Review B</i> , 2021, 103, .	1.1	19
2	Re-examining ferritin-bound iron: current and developing clinical tools. <i>Clinical Chemistry and Laboratory Medicine</i> , 2021, 59, 459-471.	1.4	8
3	Quantum magnetic imaging of iron organelles within the pigeon cochlea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	14
4	Acoustomicrofluidic Concentration and Signal Enhancement of Fluorescent Nanodiamond Sensors. <i>Analytical Chemistry</i> , 2021, 93, 16133-16141.	3.2	12
5	Quantum Magnetic Imaging of Iron Biomineralization in Teeth of the Chiton <i>Acanthopleura hirtosa</i> . <i>Small Methods</i> , 2020, 4, 1900754.	4.6	27
6	Nonvanishing effect of detuning errors in dynamical-decoupling-based quantum sensing experiments. <i>Physical Review A</i> , 2019, 99, .	1.0	13
7	Magnetic Materials: Rapid, High-Resolution Magnetic Microscopy of Single Magnetic Microbeads (Small) <i>Tj ETQq1 1 0.784314 rgBT C</i>	5.2	16
8	Rapid, High-Resolution Magnetic Microscopy of Single Magnetic Microbeads. <i>Small</i> , 2019, 15, 1805159.	5.2	16
9	Quantum Bath Control with Nuclear Spin State Selectivity via Pulse-Adjusted Dynamical Decoupling. <i>Physical Review Letters</i> , 2019, 123, 210401.	2.9	8
10	High precision single qubit tuning via thermo-magnetic field control. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	8
11	Spin properties of dense near-surface ensembles of nitrogen-vacancy centers in diamond. <i>Physical Review B</i> , 2018, 97, .	1.1	76
12	Proximity-Induced Artefacts in Magnetic Imaging with Nitrogen-Vacancy Ensembles in Diamond. <i>Sensors</i> , 2018, 18, 1290.	2.1	18
13	Quantum probe hyperpolarisation of molecular nuclear spins. <i>Nature Communications</i> , 2018, 9, 1246.	5.8	53
14	Electron paramagnetic resonance microscopy using spins in diamond under ambient conditions. <i>Nature Communications</i> , 2017, 8, 458.	5.8	65
15	Non-Neurotoxic Nanodiamond Probes for Intraneuronal Temperature Mapping. <i>ACS Nano</i> , 2017, 11, 12077-12086.	7.3	113
16	Microwave-free nuclear magnetic resonance at molecular scales. <i>Nature Communications</i> , 2017, 8, 15950.	5.8	26
17	Anticrossing Spin Dynamics of Diamond Nitrogen-Vacancy Centers and All-Optical Low-Frequency Magnetometry. <i>Physical Review Applied</i> , 2016, 6, .	1.5	28
18	Wide-band nanoscale magnetic resonance spectroscopy using quantum relaxation of a single spin in diamond. <i>Physical Review B</i> , 2016, 94, .	1.1	44

#	ARTICLE	IF	CITATIONS
19	Magneto-optical imaging of thin magnetic films using spins in diamond. Scientific Reports, 2016, 6, 22797.	1.6	75
20	A quantum spin-probe molecular microscope. Nature Communications, 2016, 7, 12667.	5.8	26
21	Detection of nanoscale electron spin resonance spectra demonstrated using nitrogen-vacancy centre probes in diamond. Nature Communications, 2016, 7, 10211.	5.8	89
22	In vivo imaging and tracking of individual nanodiamonds in drosophila melanogaster embryos. Biomedical Optics Express, 2014, 5, 1250.	1.5	43
23	Towards single-molecule NMR detection and spectroscopy using single spins in diamond. Physical Review B, 2014, 89, .	1.1	26
24	Analytic solutions to the central-spin problem for nitrogen-vacancy centers in diamond. Physical Review B, 2014, 90, .	1.1	42
25	Ambient nanoscale sensing with single spins using quantum decoherence. New Journal of Physics, 2013, 15, 073042.	1.2	61
26	Nanoscale magnetometry through quantum control of nitrogen-vacancy centres in rotationally diffusing nanodiamonds. New Journal of Physics, 2013, 15, 013041.	1.2	26
27	Magnetic spin imaging under ambient conditions with sub-cellular resolution. Nature Communications, 2013, 4, 1607.	5.8	248
28	Nanoscale sensing and imaging in biology using the nitrogen-vacancy center in diamond. MRS Bulletin, 2013, 38, 162-167.	1.7	22
29	Detection of atomic spin labels in a lipid bilayer using a single-spin nanodiamond probe. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10894-10898.	3.3	113
30	Tuning a Spin Bath through the Quantum-Classical Transition. Physical Review Letters, 2012, 108, 200402.	2.9	52
31	High spatial and temporal resolution wide-field imaging of neuron activity using quantum NV-diamond. Scientific Reports, 2012, 2, 401.	1.6	141
32	Dynamical decoupling of a single-electron spin at room temperature. Physical Review B, 2011, 83, .	1.1	210
33	Quantum measurement in living cells: Fluorescent diamond nanocrystals for biology. , 2011, , .		0
34	Quantum measurement and orientation tracking of fluorescent nanodiamonds inside living cells. Nature Nanotechnology, 2011, 6, 358-363.	15.6	552
35	Monitoring ion-channel function in real time through quantum decoherence. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18777-18782.	3.3	112
36	Ultrasensitive diamond magnetometry using optimal dynamic decoupling. Physical Review B, 2010, 82, .	1.1	58

#	ARTICLE	IF	CITATIONS
37	Sensing of Fluctuating Nanoscale Magnetic Fields Using Nitrogen-Vacancy Centers in Diamond. Physical Review Letters, 2009, 103, 220802.	2.9	127