

# Pauli Kehayias

## List of Publications by Citations

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31  
papers

1,338  
citations

19  
h-index

35  
g-index

35  
ext. papers

1,704  
ext. citations

5  
avg, IF

4.21  
L-index

#	Paper	IF	Citations
31	The GENIE neutrino Monte Carlo generator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 614, 87-104	1.2	433
30	Cavity-enhanced room-temperature magnetometry using absorption by nitrogen-vacancy centers in diamond. <i>Physical Review Letters</i> , <b>2014</b> , 112, 160802	7.4	90
29	Micrometer-scale magnetic imaging of geological samples using a quantum diamond microscope. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2017</b> , 18, 3254-3267	3.6	78
28	Optical polarization of nuclear ensembles in diamond. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	69
27	Detection of nanoscale electron spin resonance spectra demonstrated using nitrogen-vacancy centre probes in diamond. <i>Nature Communications</i> , <b>2016</b> , 7, 10211	17.4	65
26	Ultralong Dephasing Times in Solid-State Spin Ensembles via Quantum Control. <i>Physical Review X</i> , <b>2018</b> , 8,	9.1	59
25	Infrared absorption band and vibronic structure of the nitrogen-vacancy center in diamond. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	48
24	Principles and techniques of the quantum diamond microscope. <i>Nanophotonics</i> , <b>2019</b> , 8, 1945-1973	6.3	46
23	Two-dimensional nuclear magnetic resonance spectroscopy with a microfluidic diamond quantum sensor. <i>Science Advances</i> , <b>2019</b> , 5, eaaw7895	14.3	44
22	Solution nuclear magnetic resonance spectroscopy on a nanostructured diamond chip. <i>Nature Communications</i> , <b>2017</b> , 8, 188	17.4	44
21	Magnetometry with nitrogen-vacancy ensembles in diamond based on infrared absorption in a doubly resonant optical cavity. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	44
20	A hadronization model for few-GeV neutrino interactions. <i>European Physical Journal C</i> , <b>2009</b> , 63, 1-10	4.2	42
19	Longitudinal spin relaxation in nitrogen-vacancy ensembles in diamond. <i>EPJ Quantum Technology</i> , <b>2015</b> , 2,	6.9	38
18	Microwave saturation spectroscopy of nitrogen-vacancy ensembles in diamond. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	29
17	Diamond magnetometer enhanced by ferrite flux concentrators. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	29
16	Evaluating the paleomagnetic potential of single zircon crystals using the Bishop Tuff. <i>Earth and Planetary Science Letters</i> , <b>2017</b> , 458, 1-13	5.3	28
15	Diamond Magnetic Microscopy of Malarial Hemozoin Nanocrystals. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	25

14	Imaging crystal stress in diamond using ensembles of nitrogen-vacancy centers. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	23
13	Secondary magnetic inclusions in detrital zircons from the Jack Hills, Western Australia, and implications for the origin of the geodynamo. <i>Geology</i> , <b>2018</b> , 46, 427-430	5	22
12	Magnetometry with Nitrogen-Vacancy Centers in Diamond. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2017</b> , 553-576	0.3	15
11	Weak Magnetic Fields in the Outer Solar Nebula Recorded in CR Chondrites. <i>Journal of Geophysical Research E: Planets</i> , <b>2020</b> , 125, e2019JE006260	4.1	13
10	Coherent population oscillations with nitrogen-vacancy color centers in diamond. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	13
9	Magnetic Field Fingerprinting of Integrated-Circuit Activity with a Quantum Diamond Microscope. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	12
8	Diamond-Based Magnetic Imaging with Fourier Optical Processing. <i>Physical Review Applied</i> , <b>2017</b> , 8,	4.3	9
7	Microwave-Assisted Spectroscopy Technique for Studying Charge State in Nitrogen-Vacancy Ensembles in Diamond. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	6
6	A Hadronization Model for the MINOS Experiment. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	6
5	Optically detected magnetic resonances of nitrogen-vacancy ensembles in C13-enriched diamond. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	4
4	A physically unclonable function using NV diamond magnetometry and micromagnet arrays. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 203904	2.5	2
3	Can Zircons be Suitable Paleomagnetic Recorders? - A Correlative Study of Bishop Tuff Zircon Grains Using High Resolution Lab X-ray Microscopes and a Quantum Diamond Microscope. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 1794-1795	0.5	1
2	A fitting algorithm for optimizing ion implantation energies and fluences. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2021</b> , 500-501, 52-56	1.2	1
1	Nanoscale solid-state nuclear quadrupole resonance spectroscopy using depth-optimized nitrogen-vacancy ensembles in diamond. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 174002	3.4	0