# Pauli Kehayias

## List of Publications by Year in Descending Order



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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 | Nanoscale solid-state nuclear quadrupole resonance spectroscopy using depth-optimized nitrogen-vacancy ensembles in diamond. *Applied Physics Letters*, **2022**, 120, 174002 | 3.4 | 0 |
| 30 | A fitting algorithm for optimizing ion implantation energies and fluences. *Nuclear Instruments & Methods in Physics Research B*, **2021**, 500-501, 52-56 | 1.2 | 1 |
| 29 | Weak Magnetic Fields in the Outer Solar Nebula Recorded in CR Chondrites. *Journal of Geophysical Research E: Planets*, **2020**, 125, e2019JE006260 | 4.1 | 13 |
| 28 | A physically unclonable function using NV diamond magnetometry and micromagnet arrays. *Journal of Applied Physics*, **2020**, 127, 203904 | 2.5 | 2 |
| 27 | Microwave-Assisted Spectroscopy Technique for Studying Charge State in Nitrogen-Vacancy Ensembles in Diamond. *Physical Review Applied*, **2020**, 14, | 4.3 | 6 |
| 26 | Diamond magnetometer enhanced by ferrite flux concentrators. *Physical Review Research*, **2020**, 2, | 3.9 | 29 |
| 25 | Magnetic Field Fingerprinting of Integrated-Circuit Activity with a Quantum Diamond Microscope. *Physical Review Applied*, **2020**, 14, | 4.3 | 12 |
| 24 | Principles and techniques of the quantum diamond microscope. *Nanophotonics*, **2019**, 8, 1945-1973 | 6.3 | 46 |
| 23 | Diamond Magnetic Microscopy of Malarial Hemozoin Nanocrystals. *Physical Review Applied*, **2019**, 11, | 4.3 | 25 |
| 22 | Two-dimensional nuclear magnetic resonance spectroscopy with a microfluidic diamond quantum sensor. *Science Advances*, **2019**, 5, eaaw7895 | 14.3 | 44 |
| 21 | Imaging crystal stress in diamond using ensembles of nitrogen-vacancy centers. *Physical Review B*, **2019**, 100, | 3.3 | 23 |
| 20 | Ultralong Dephasing Times in Solid-State Spin Ensembles via Quantum Control. *Physical Review X*, **2018**, 8, | 9.1 | 59 |
| 19 | Secondary magnetic inclusions in detrital zircons from the Jack Hills, Western Australia, and implications for the origin of the geodynamo. *Geology*, **2018**, 46, 427-430 | 5 | 22 |
| 18 | Evaluating the paleomagnetic potential of single zircon crystals using the Bishop Tuff. *Earth and Planetary Science Letters*, **2017**, 458, 1-13 | 5.3 | 28 |
| 17 | Micrometer-scale magnetic imaging of geological samples using a quantum diamond microscope. *Geochemistry, Geophysics, Geosystems*, **2017**, 18, 3254-3267 | 3.6 | 78 |
| 16 | Solution nuclear magnetic resonance spectroscopy on a nanostructured diamond chip. *Nature Communications*, **2017**, 8, 188 | 17.4 | 44 |
| 15 | Diamond-Based Magnetic Imaging with Fourier Optical Processing. *Physical Review Applied*, **2017**, 8, | 4.3 | 9 |

# List of Publications

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|---|---|---|---|
| 14 | Magnetometry with Nitrogen-Vacancy Centers in Diamond. *Smart Sensors, Measurement and Instrumentation*, **2017**, 553-576 | 0.3 | 15 |
| 13 | Coherent population oscillations with nitrogen-vacancy color centers in diamond. *Physical Review B*, **2016**, 94, | 3.3 | 13 |
| 12 | 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. *Microscopy and Microanalysis*, **2016**, 22, 1794-1795 | 0.5 | 1 |
| 11 | Detection of nanoscale electron spin resonance spectra demonstrated using nitrogen-vacancy centre probes in diamond. *Nature Communications*, **2016**, 7, 10211 | 17.4 | 65 |
| 10 | Optically detected magnetic resonances of nitrogen-vacancy ensembles in C13-enriched diamond. *Physical Review B*, **2016**, 94, | 3.3 | 4 |
| 9 | Longitudinal spin relaxation in nitrogen-vacancy ensembles in diamond. *EPJ Quantum Technology*, **2015**, 2, | 6.9 | 38 |
| 8 | Cavity-enhanced room-temperature magnetometry using absorption by nitrogen-vacancy centers in diamond. *Physical Review Letters*, **2014**, 112, 160802 | 7.4 | 90 |
| 7 | Microwave saturation spectroscopy of nitrogen-vacancy ensembles in diamond. *Physical Review B*, **2014**, 89, | 3.3 | 29 |
| 6 | Infrared absorption band and vibronic structure of the nitrogen-vacancy center in diamond. *Physical Review B*, **2013**, 88, | 3.3 | 48 |
| 5 | Magnetometry with nitrogen-vacancy ensembles in diamond based on infrared absorption in a doubly resonant optical cavity. *Physical Review B*, **2013**, 87, | 3.3 | 44 |
| 4 | Optical polarization of nuclear ensembles in diamond. *Physical Review B*, **2013**, 87, | 3.3 | 69 |
| 3 | The GENIE neutrino Monte Carlo generator. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2010**, 614, 87-104 | 1.2 | 433 |
| 2 | A hadronization model for few-GeV neutrino interactions. *European Physical Journal C*, **2009**, 63, 1-10 | 4.2 | 42 |
| 1 | A Hadronization Model for the MINOS Experiment. *AIP Conference Proceedings*, **2007**, | 0 | 6 |