# Pauli Kehayias

List of Publications by Year
in descending order



| 34 | 2,073 | 331642 | 414395 |
|---|---|---|---|
| papers | citations | 21 h-index | 32 g-index |

| 35 | 35 | 35 | 2373 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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. | 1.6 | 618 |
| 2 | Micrometerâ€scale magnetic imaging of geological samples using a quantum diamond microscope. Geochemistry, Geophysics, Geosystems, 2017, 18, 3254-3267. | 2.5 | 131 |
| 3 | Principles and techniques of the quantum diamond microscope. Nanophotonics, 2019, 8, 1945-1973. | 6.0 | 123 |
| 4 | Cavity-Enhanced Room-Temperature Magnetometry Using Absorption by Nitrogen-Vacancy Centers in Diamond. Physical Review Letters, 2014, 112, 160802. | 7.8 | 112 |
| 5 | Ultralong Dephasing Times in Solid-State Spin Ensembles via Quantum Control. Physical Review X, 2018, 8, . | 8.9 | 100 |
| 6 | Detection of nanoscale electron spin resonance spectra demonstrated using nitrogen-vacancy centre probes in diamond. Nature Communications, 2016, 7, 10211. | 12.8 | 89 |
| 7 | Optical polarization of nuclear ensembles in diamond. Physical Review B, 2013, 87, . | 3.2 | 82 |
| 8 | Two-dimensional nuclear magnetic resonance spectroscopy with a microfluidic diamond quantum sensor. Science Advances, 2019, 5, eaaw7895. | 10.3 | 78 |
| 9 | Diamond magnetometer enhanced by ferrite flux concentrators. Physical Review Research, 2020, 2, . | 3.6 | 78 |
| 10 | A hadronization model for few-GeV neutrino interactions. European Physical Journal C, 2009, 63, 1-10. | 3.9 | 63 |
| 11 | Infrared absorption band and vibronic structure of the nitrogen-vacancy center in diamond. Physical Review B, 2013, 88, . | 3.2 | 61 |
| 12 | Solution nuclear magnetic resonance spectroscopy on a nanostructured diamond chip. Nature Communications, 2017, 8, 188. | 12.8 | 60 |
| 13 | Magnetometry with nitrogen-vacancy ensembles in diamond based on infrared absorption in a doubly resonant optical cavity. Physical Review B, 2013, 87, . | 3.2 | 57 |
| 14 | Longitudinal spin relaxation in nitrogen-vacancy ensembles in diamond. EPJ Quantum Technology, 2015, 2, . | 6.3 | 56 |
| 15 | Imaging crystal stress in diamond using ensembles of nitrogen-vacancy centers. Physical Review B, 2019, 100, . | 3.2 | 51 |
| 16 | Diamond Magnetic Microscopy of Malarial Hemozoin Nanocrystals. Physical Review Applied, 2019, 11, . | 3.8 | 48 |
| 17 | Magnetic Field Fingerprinting of Integrated-Circuit Activity with a Quantum Diamond Microscope. Physical Review Applied, 2020, 14, . | 3.8 | 37 |
| 18 | Microwave saturation spectroscopy of nitrogen-vacancy ensembles in diamond. Physical Review B, 2014, 89, . | 3.2 | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Evaluating the paleomagnetic potential of single zircon crystals using the Bishop Tuff. Earth and Planetary Science Letters, 2017, 458, 1-13. | 4.4 | 33 |
| 20 | 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. | 4.4 | 27 |
| 21 | Coherent population oscillations with nitrogen-vacancy color centers in diamond. Physical Review B, 2016, 94, . | 3.2 | 22 |
| 22 | Weak Magnetic Fields in the Outer Solar Nebula Recorded in CR Chondrites. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006260. | 3.6 | 22 |
| 23 | Magnetometry with Nitrogen-Vacancy Centers in Diamond. Smart Sensors, Measurement and Instrumentation, 2017, , 553-576. | 0.6 | 19 |
| 24 | Microwave-Assisted Spectroscopy Technique for Studying Charge State in Nitrogen-Vacancy Ensembles in Diamond. Physical Review Applied, 2020, 14, . | 3.8 | 15 |
| 25 | Diamond-Based Magnetic Imaging with Fourier Optical Processing. Physical Review Applied, 2017, 8, . | 3.8 | 11 |
| 26 | Nanoscale solid-state nuclear quadrupole resonance spectroscopy using depth-optimized nitrogen-vacancy ensembles in diamond. Applied Physics Letters, 2022, 120, . | 3.3 | 11 |
| 27 | A Hadronization Model for the MINOS Experiment. AIP Conference Proceedings, 2007, , . | 0.4 | 8 |
| 28 | A physically unclonable function using NV diamond magnetometry and micromagnet arrays. Journal of Applied Physics, 2020, 127, 203904. | 2.5 | 7 |
| 29 | Measurement and Simulation of the Magnetic Fields from a 555 Timer Integrated Circuit Using a Quantum Diamond Microscope and Finite-Element Analysis. Physical Review Applied, 2022, 17, . | 3.8 | 7 |
| 30 | Optically detected magnetic resonances of nitrogen-vacancy ensembles in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mn>13</mml:mn></mml:mmultiscripts></mml:math>-enriched diamond. Physical Review B, 2016, 94, . | 3.2 | 6 |
| 31 | A fitting algorithm for optimizing ion implantation energies and fluences. Nuclear Instruments & Methods in Physics Research B, 2021, 500-501, 52-56. | 1.4 | 4 |
| 32 | 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. | 0.4 | 1 |
| 33 | Fourier Optical Processing Enables New Capabilities in Opto-Magnetic Imaging Using Nitrogen-Vacancy Centers in Diamond. , 2018, , . | | 0 |
| 34 | Magnetic imaging of malarial nanocrystals with diamond sensors. , 2019, , . | | 0 |