

# Resource Summary Report

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## National High Magnetic Field Laboratory

RRID:SCR\_010550

Type: Tool

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### Proper Citation

National High Magnetic Field Laboratory (RRID:SCR\_010550)

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### Resource Information

**URL:** <https://nationalmaglab.org/>

**Proper Citation:** National High Magnetic Field Laboratory (RRID:SCR\_010550)

**Description:** National MagLab headquartered in Florida State University in Tallahassee. The lab also includes sites at Los Alamos National Laboratory in New Mexico and University of Florida in Gainesville. It serves as user facility. Major center for condensed matter physics and materials science, often collaborating with university researchers for scientific discovery.

**Abbreviations:** MagLab

**Synonyms:** Magnet Lab, National MagLab, NHMFL, MagLab

**Resource Type:** core facility, service resource, access service resource

**Keywords:** condensed matter physics, materials science

**Funding:** State of Florida ;  
U.S. National Science Foundation DMR-2128556;  
U.S. Department of Energy

**Resource Name:** National High Magnetic Field Laboratory

**Resource ID:** SCR\_010550

**Alternate IDs:** nlx\_34023

**Record Creation Time:** 20220129T080259+0000

**Record Last Update:** 20260801T190353+0000

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### Ratings and Alerts

No rating or validation information has been found for National High Magnetic Field Laboratory.

No alerts have been found for National High Magnetic Field Laboratory.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 102 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [ASWG](#).

Maqbool T, et al. (2024) Transformation of sedimentary dissolved organic matter in electrokinetic remediation catalogued by FT-ICR mass spectrometry. *Water research*, 262, 122094.

Nisson DM, et al. (2023) Radiolytically reworked Archean organic matter in a habitable deep ancient high-temperature brine. *Nature communications*, 14(1), 6163.

Moseley DH, et al. (2022) Comprehensive Studies of Magnetic Transitions and Spin-Phonon Couplings in the Tetrahedral Cobalt Complex Co(AsPh<sub>3</sub>)<sub>2</sub>I<sub>2</sub>. *Inorganic chemistry*, 61(43), 17123.

Young RB, et al. (2022) PFAS Analysis with Ultrahigh Resolution 21T FT-ICR MS: Suspect and Nontargeted Screening with Unrivaled Mass Resolving Power and Accuracy. *Environmental science & technology*, 56(4), 2455.

Guttenberg N, et al. (2021) Classification of the Biogenicity of Complex Organic Mixtures for the Detection of Extraterrestrial Life. *Life (Basel, Switzerland)*, 11(3).

Bagdasarian FA, et al. (2021) NODDI highlights recovery mechanisms in white and gray matter in ischemic stroke following human stem cell treatment. *Magnetic resonance in medicine*, 86(6), 3211.

Hung I, et al. (2021) Field-stepped ultra-wideline NMR at up to 36 T: On the inequivalence between field and frequency stepping. *Magnetic resonance in chemistry : MRC*, 59(9-10), 951.

Shi Z, et al. (2019) Emergent bound states and impurity pairs in chemically doped Shastry-Sutherland system. *Nature communications*, 10(1), 2439.

Ostrander CM, et al. (2019) Fully oxygenated water columns over continental shelves before the Great Oxidation Event. *Nature geoscience*, 12, 186.

Li Y, et al. (2019) Hole pocket-driven superconductivity and its universal features in the electron-doped cuprates. *Science advances*, 5(2), eaap7349.

Waiczies S, et al. (2019) Fluorine-19 MRI at 21.1 T: enhanced spin-lattice relaxation of perfluoro-15-crown-5-ether and sensitivity as demonstrated in ex vivo murine neuroinflammation. *Magma (New York, N.Y.)*, 32(1), 37.

Li Y, et al. (2019) Tuning from failed superconductor to failed insulator with magnetic field. *Science advances*, 5(6), eaav7686.

Feng Y, et al. (2019) Linear magnetoresistance in the low-field limit in density-wave materials. *Proceedings of the National Academy of Sciences of the United States of America*, 116(23), 11201.

Caiazza C, et al. (2019) Effects of Long-Term Citrate Treatment in the PC3 Prostate Cancer Cell Line. *International journal of molecular sciences*, 20(11).

Amoj K, et al. (2019) Dihydroxy-Substituted Coumarins as Fluorescent Probes for Nanomolar-Level Detection of the 4-Amino-TEMPO Spin Label. *International journal of molecular sciences*, 20(15).

Ye L, et al. (2019) de Haas-van Alphen effect of correlated Dirac states in kagome metal Fe<sub>3</sub>Sn<sub>2</sub>. *Nature communications*, 10(1), 4870.

Sarkar T, et al. (2019) Correlation between scale-invariant normal-state resistivity and superconductivity in an electron-doped cuprate. *Science advances*, 5(5), eaav6753.

Taneja N, et al. (2019) Myosin IIA drives membrane bleb retraction. *Molecular biology of the cell*, 30(9), 1051.

Zvyagin SA, et al. (2019) Pressure-tuning the quantum spin Hamiltonian of the triangular lattice antiferromagnet Cs<sub>2</sub>CuCl<sub>4</sub>. *Nature communications*, 10(1), 1064.

Gross NB, et al. (2019) Endogenous Na<sup>+</sup>, K<sup>+</sup>-ATPase inhibitors and CSF [Na<sup>+</sup>] contribute to migraine formation. *PloS one*, 14(6), e0218041.