

Resource Summary Report

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National High Magnetic Field Laboratory

RRID:SCR_010550

Type: Tool

Proper Citation

National High Magnetic Field Laboratory (RRID:SCR_010550)

Resource Information

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

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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: service resource, access service resource, core facility

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: 20260804T043431+0000

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.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 102 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

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 $\text{Co}(\text{AsPh}_3)_2\text{I}_2$. *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).

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.

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.

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.

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) Hole pocket-driven superconductivity and its universal features in the electron-doped cuprates. *Science advances*, 5(2), eaap7349.
- Li Y, et al. (2019) Tuning from failed superconductor to failed insulator with magnetic field. *Science advances*, 5(6), eaav7686.
- Ye L, et al. (2019) de Haas-van Alphen effect of correlated Dirac states in kagome metal Fe₃Sn₂. *Nature communications*, 10(1), 4870.
- 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).
- Sarkar T, et al. (2019) Correlation between scale-invariant normal-state resistivity and superconductivity in an electron-doped cuprate. *Science advances*, 5(5), eaav6753.
- Zvyagin SA, et al. (2019) Pressure-tuning the quantum spin Hamiltonian of the triangular lattice antiferromagnet Cs₂CuCl₄. *Nature communications*, 10(1), 1064.
- Gross NB, et al. (2019) Endogenous Na⁺, K⁺-ATPase inhibitors and CSF [Na⁺] contribute to migraine formation. *PloS one*, 14(6), e0218041.
- Taneja N, et al. (2019) Myosin IIA drives membrane bleb retraction. *Molecular biology of the cell*, 30(9), 1051.