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: access service resource, core facility, service resource

Keywords: condensed matter physics, materials science

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

Resource Name: National High Magnetic Field Laboratory

Resource ID: SCR_010550

Alternate IDs: nlx_34023

Record Creation Time: 20220129T080259+0000

Record Last Update: 20260903T235031+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 111 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Kieft J, et al. (2025) Regional and National Shared Research Resources: Challenges and Opportunities§. Journal of biomolecular techniques : JBT, 36(4), 19.

Hung I, et al. (2025) High-Resolution 1H/17O NMR Correlation under Fast Magic-Angle Spinning: Revisiting Cross-Polarization for Quadrupolar Nuclei. The journal of physical chemistry letters, 16(27), 7036.

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

Yang J, et al. (2023) pH affects the aqueous-phase nitrate-mediated photooxidation of phenolic compounds: implications for brown carbon formation and evolution. Environmental science. Processes & impacts, 25(2), 176.

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

Hung I, et al. (2022) Residue-Specific High-Resolution 17O Solid-State Nuclear Magnetic Resonance of Peptides: Multidimensional Indirect 1H Detection and Magic-Angle Spinning. The journal of physical chemistry letters, 13(28), 6549.

Moseley DH, et al. (2022) Comprehensive Studies of Magnetic Transitions and Spin-Phonon Couplings in the Tetrahedral Cobalt Complex Co(AsPh3)2I2. 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.

Gao W, et al. (2021) Dual Active Sites on Molybdenum/ZSM-5 Catalyst for Methane Dehydroaromatization: Insights from Solid-State NMR Spectroscopy. Angewandte Chemie (International ed. in English), 60(19), 10709.

Witwicki M, et al. (2021) o-Semiquinone radical anion isolated as an amorphous porous solid. Physical chemistry chemical physics : PCCP, 23(32), 17408.

Hettiyadura APS, et al. (2021) Chemical Composition and Molecular-Specific Optical Properties of Atmospheric Brown Carbon Associated with Biomass Burning. Environmental science & technology, 55(4), 2511.

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.

Fu QL, et al. (2020) Development and comparison of formula assignment algorithms for ultrahigh-resolution mass spectra of natural organic matter. Analytica chimica acta, 1125, 247.

Hung I, et al. (2020) Low-power STMAS - breaking through the limit of large quadrupolar interactions in high-resolution solid-state NMR spectroscopy. Physical chemistry chemical physics : PCCP, 22(37), 21119.

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.