

Resource Summary Report

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National High Magnetic Field Laboratory Electron Magnetic Resonance Core Facility

RRID:SCR_017359

Type: Tool

Proper Citation

National High Magnetic Field Laboratory Electron Magnetic Resonance Core Facility
(RRID:SCR_017359)

Resource Information

URL: <https://nationalmaglab.org/user-facilities/emr/>

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Description: EMR Facility offers home-built, high-frequency and high-field continuous-wave instruments providing frequency coverage from 9 GHz to 1 THz, with additional frequencies available up to 2.5 THz using molecular gas laser. EMR covers variety of magnetic resonance techniques associated with electron like Electron Paramagnetic/Spin Resonance (EPR/ESR). EPR/ESR can be performed on any sample that has unpaired electron spins and used in applications in physics, materials science, chemistry and biology, including studies of impurity states, molecular clusters, antiferromagnetic, ferromagnetic and thin film compounds, natural or induced radicals, optically excited paramagnetic states, electron spin-based quantum information devices, transition-metal based catalysts; and for structural and dynamical studies of metallo-proteins, spin-labeled proteins and other complex bio-molecules and their synthetic models.

Abbreviations: EMR

Synonyms: NHMFL EMR facility, EMR Instruments, Electron Magnetic Resonance Facility

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

Keywords: Magnet, EMR, Electron Magnetic Resonance, Tallahassee Florida Headquarters, spin, resonance, unpaired, electron, spectrometer

Funding: Department of Defense ;
Department of Energy ;
Florida State ;

NIH ;
NSF

Availability: Restricted

Resource Name: National High Magnetic Field Laboratory Electron Magnetic Resonance Core Facility

Resource ID: SCR_017359

Alternate URLs: <https://nationalmaglab.org/user-facilities/emr>,
https://nationalmaglab.org/images/users/emr/searchable_docs/epr_news_vol2_n2.pdf

Old URLs: <https://nationalmaglab.org/user-facilities/emr/instruments-emr>

Record Creation Time: 20220129T080334+0000

Record Last Update: 20260912T200359+0000

Ratings and Alerts

No rating or validation information has been found for National High Magnetic Field Laboratory Electron Magnetic Resonance Core Facility.

No alerts have been found for National High Magnetic Field Laboratory Electron Magnetic Resonance Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

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