

Resource Summary Report

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Neutron Scattering Length and Cross Sections

RRID:SCR_019140

Type: Tool

Proper Citation

Neutron Scattering Length and Cross Sections (RRID:SCR_019140)

Resource Information

URL: <https://www.ncnr.nist.gov/resources/n-lengths/>

Proper Citation: Neutron Scattering Length and Cross Sections (RRID:SCR_019140)

Description: Web tool for thermal neutron cross sections. Data of scattering lengths and corresponding scattering and absorption cross sections of elements. Data go through element number 96Cm. Used for study of condensed matter structure and dynamics.

Resource Type: data or information resource, service resource

Defining Citation: [DOI:10.1080/10448639208218770](https://doi.org/10.1080/10448639208218770)

Keywords: NIST Center for Neutron Research, thermal neutron cross sections, scattering lengths, condensed matter, condensed matter structure, condensed matter dynamics, absorption cross sections, scattering cross sections, data

Availability: Free, Freely available

Resource Name: Neutron Scattering Length and Cross Sections

Resource ID: SCR_019140

Record Creation Time: 20220129T080343+0000

Record Last Update: 20260905T132846+0000

Ratings and Alerts

No rating or validation information has been found for Neutron Scattering Length and Cross Sections.

No alerts have been found for Neutron Scattering Length and Cross Sections.

Data and Source Information

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Drago VN, et al. (2026) Mutation of active site glutamate in serine hydroxymethyltransferase allows trapping a reactive intermediate: a combined neutron and X-ray crystallography study. RSC advances, 16(25), 22600.

Harp JM, et al. (2022) Cryo neutron crystallography demonstrates influence of RNA 2'-OH orientation on conformation, sugar pucker and water structure. Nucleic acids research, 50(13), 7721.

Hogrefe K, et al. (2021) Tracking Ions the Direct Way: Long-Range Li⁺ Dynamics in the Thio-LISICON Family Li₄MCh₄ (M = Sn, Ge; Ch = S, Se) as Probed by ⁷Li NMR Relaxometry and ⁷Li Spin-Alignment Echo NMR. The journal of physical chemistry. C, Nanomaterials and interfaces, 125(4), 2306.

Kneller DW, et al. (2021) Direct Observation of Protonation State Modulation in SARS-CoV-2 Main Protease upon Inhibitor Binding with Neutron Crystallography. Journal of medicinal chemistry, 64(8), 4991.

Helliwell JR, et al. (2020) Fundamentals of neutron crystallography in structural biology. Methods in enzymology, 634, 1.