

# Resource Summary Report

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## ALADDIN

RRID:SCR\_010476

Type: Tool

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### Proper Citation

ALADDIN (RRID:SCR\_010476)

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### Resource Information

**URL:** <http://www-amdis.iaea.org/ALADDIN/>

**Proper Citation:** ALADDIN (RRID:SCR\_010476)

**Description:** Numerical database of atomic and molecular processes and particle-surface interactions. It has formatted data on atomic structure and spectra (energy levels, wave lengths, and transition probabilities); electron and heavy particle collisions with atoms, ions, and molecules (cross sections and/or rate coefficients, including, in most cases, analytic fit to the data); sputtering of surfaces by impact of main plasma constituents and self sputtering; particle reflection from surfaces; thermophysical and thermomechanical properties of beryllium and pyrolytic graphites.

**Abbreviations:** ALADDIN

**Synonyms:** ALADDIN Database, ALADDIN Numerical Database, ALADDIN (A Labelled Atomic Data INterface)

**Resource Type:** data or information resource, database

**Keywords:** atomic, molecular, collision, radiative, process, structure, particle-solid surface interaction, physico-chemical, thermo-mechanical, material, fusion energy, plasma, FASEB list

**Resource Name:** ALADDIN

**Resource ID:** SCR\_010476

**Alternate IDs:** nlx\_157749, r3d100010726

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

**Record Last Update:** 20260904T000258+0000

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### Ratings and Alerts

No rating or validation information has been found for ALADDIN.

No alerts have been found for ALADDIN.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 89 mentions in open access literature.

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

Bai G, et al. (2026) LARS promotes osteosarcoma proliferation through leucine-dependent PRIM2 translation and DNA replication activation. Journal of experimental & clinical cancer research : CR, 45(1).

Chen X, et al. (2025) Pectin-Zein-IPA nanoparticles promote functional recovery and alleviate neuroinflammation after spinal cord injury. Journal of nanobiotechnology, 23(1), 152.

Deng J, et al. (2025) Characterization of Qu-aroma of medium-high temperature Daqu from different production areas using sensory evaluation, E-nose, and GC-MS/O analysis. Bioresources and bioprocessing, 12(1), 40.

Liu W, et al. (2025) Experimental Investigation on Thermal Performance Optimization of Na<sub>2</sub>HPO<sub>4</sub>·12H<sub>2</sub>O-Based Gel Phase Change Materials for Solar Greenhouse. Gels (Basel, Switzerland), 11(6).

Wang Y, et al. (2025) Achieving 20% Toluene-Processed Binary Organic Solar Cells via Secondary Regulation of Donor Aggregation in Sequential Processing. Nano-micro letters, 17(1), 206.

Zhao L, et al. (2025) Injectable double-crosslinked bone cement with enhanced bone adhesion and improved osteoporotic pathophysiological microenvironment for osteoregeneration in osteoporosis. Bioactive materials, 43, 441.

Yang Z, et al. (2025) Synergistic Electrocatalytic N<sub>2</sub> Reduction over Asymmetric Heteronuclear Dual Ru-Fe Sites. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(48), e12218.

Zhou R, et al. (2025) Polytelluoxane as the ideal formulation for EUV photoresist. Science advances, 11(29), eadx1918.

Lin K, et al. (2025) Investigation of microwave, irradiation, low-temperature plasma on flavor changes of mango powder. Food chemistry: X, 27, 102479.

Guo Y, et al. (2025) Microwave Absorption Properties of Graphite Nanosheet/Carbon Nanofiber Hybrids Prepared by Intercalation Chemical Vapor Deposition. Nanomaterials

(Basel, Switzerland), 15(5).

Yao J, et al. (2025) Antifungal Polyacetylenic Deoxyglycosides Isolated from Endophytic Fungus *Xylaria* sp. VDL4 Associated with *Vaccinium dunalianum*. *Journal of fungi* (Basel, Switzerland), 11(3).

Cao DC, et al. (2025) Oxygen-Generating Biomimetic Nano-Herb System for Synergistic Therapy & Pain Relief in Triple-Negative Breast Cancer via HIF-1 $\alpha$ /VEGF Pathway. *International journal of nanomedicine*, 20, 7113.

Li J, et al. (2025) Electrolyte/electrode interphase regulation with methylthiolation ionic liquids for high-voltage quasi-solid-state Li metal batteries. *Science advances*, 11(46), eadz5203.

Dou B, et al. (2025) A chemically modified DNzyme-based electrochemical sensor for binary and highly sensitive detection of reactive oxygen species. *Chemical science*, 16(8), 3470.

Polspoel S, et al. (2025) Automatic development of speech-in-noise hearing tests using machine learning. *Scientific reports*, 15(1), 12878.

Wu R, et al. (2025) Norcantharidin inhibits TOP2A expression via H3K27me3 mediated epigenetic regulation to alleviate the progression of hepatocellular carcinoma. *Frontiers in pharmacology*, 16, 1541298.

Sheng D, et al. (2025) High-flux and anti-fouling membrane distillation membrane with VOC capture ability enabled by ZIF-8. *Nature communications*, 16(1), 8021.

Senthooran V, et al. (2024) Enhancing Mechanical and Thermal Properties of 3D-Printed Samples Using Mica-Epoxy Acrylate Resin Composites-Via Digital Light Processing (DLP). *Polymers*, 16(8).

He F, et al. (2024) In vitro conversion of ellagic acid to urolithin A by different gut microbiota of urolithin metabotype A. *Applied microbiology and biotechnology*, 108(1), 215.

Zhang H, et al. (2024) Additional kinetic energy harvesting with extra electrodes by single electrode droplet-based electricity generator (SE-DEG). *Heliyon*, 10(2), e24765.