

Resource Summary Report

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ALADDIN

RRID:SCR_010476

Type: Tool

Proper Citation

ALADDIN (RRID:SCR_010476)

Resource Information

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

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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: 20260801T191015+0000

Ratings and Alerts

No rating or validation information has been found for ALADDIN.

No alerts have been found for ALADDIN.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 86 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

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).

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.

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.

Liu W, et al. (2025) Experimental Investigation on Thermal Performance Optimization of Na₂HPO₄·12H₂O-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.

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.

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.

Cao DC, et al. (2025) Oxygen-Generating Biomimetic Nano-Herb System for Synergistic Therapy & Pain Relief in Triple-Negative Breast Cancer via HIF-1 α /VEGF Pathway.

International journal of nanomedicine, 20, 7113.

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.

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.

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

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.

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.

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.

Wang Y, et al. (2024) Ag-MWCNT Composites for Improving the Electrical and Thermal Properties of Electronic Paste. *Polymers*, 16(8).

Senthooan 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).

Aniwaer M, et al. (2024) Effective co-immobilization of arsenic and cadmium in contaminated soil by sepiolite-modified nano-zero-valent iron and its impact on the soil bacterial community. *Scientific reports*, 14(1), 26178.

Luo Q, et al. (2024) Dynamic hydrogel-metal-organic framework system promotes bone regeneration in periodontitis through controlled drug delivery. *Journal of nanobiotechnology*, 22(1), 287.