## **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: database, data or information resource

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

Funding:

Resource Name: ALADDIN

Resource ID: SCR\_010476

Alternate IDs: nlx\_157749

Record Creation Time: 20220129T080259+0000

Record Last Update: 20250519T204804+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 73 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>dkNET</u>.

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.

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).

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.

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).

Wang F, et al. (2024) Evaluation of the Immune Response of Patulin by Proteomics. Biosensors, 14(7).

Zheng ZY, et al. (2024) NIR-715 photodynamic therapy induces immunogenic cancer cell death by enhancing the endoplasmic reticulum stress response. Cell death & disease, 15(12), 890.

Cheng Z, et al. (2024) Novel High-Entropy FeCoNiMoZn-Layered Hydroxide as an Efficient Electrocatalyst for the Oxygen Evolution Reaction. Nanomaterials (Basel, Switzerland), 14(10).

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.

Ainiwaer 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.

Tian P, et al. (2024) SOS! Hydrogen Sulfide Enhances the Flavonoid Early Warning System in Rice Plants to Cope with Thiocyanate Pollution. Toxics, 12(8).

Wang X, et al. (2023) A regulatory circuit comprising the CBP and SIRT7 regulates FAM134B-mediated ER-phagy. The Journal of cell biology, 222(5).

Zhang D, et al. (2023) Surface-Modified In2O3 for High-Throughput Screening of Volatile Gas Sensors in Diesel and Gasoline. Materials (Basel, Switzerland), 16(4).

Okada T, et al. (2023) Clinical features and prognosis of isolated cardiac sarcoidosis diagnosed using new guidelines with dedicated FDG PET/CT. Journal of nuclear cardiology : official publication of the American Society of Nuclear Cardiology, 30(1), 280.

Kim JH, et al. (2023) Non-invasive flow mapping of parasagittal meningeal lymphatics using 2D interslice flow saturation MRI. Fluids and barriers of the CNS, 20(1), 37.

Zhang H, et al. (2023) Preparation of asymmetric Janus hollow silica microparticle and its application on oily wastewaters. Scientific reports, 13(1), 4135.

Tang L, et al. (2023) Synthesis of Oleanolic Acid-Dithiocarbamate Conjugates and Evaluation of Their Broad-Spectrum Antitumor Activities. Molecules (Basel, Switzerland), 28(3).

Tang Z, et al. (2023) Design and evaluation of tadpole-like conformational antimicrobial peptides. Communications biology, 6(1), 1177.

Liu H, et al. (2022) Degradation of organophosphorus flame retardants in heterogeneous photo-Fenton system driven by Fe(III)-based metal organic framework: Intermediates and their potential interference on bacterial metabolism. Chemosphere, 291(Pt 3), 133072.

Xiong Y, et al. (2022) Potassium promoted Gd0.06Co catalysts for highly efficient catalytic N2O decomposition in presence of impurity gases at low temperature. Chemosphere, 303(Pt 3), 135257.