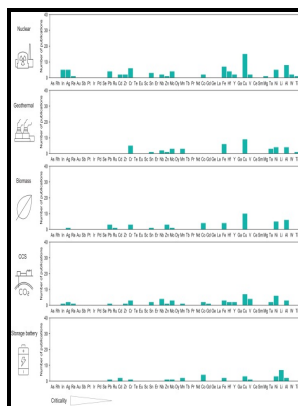


# Critical metals - conservation, recycling and substitution.

## NATO - Criticality of Iron and Its Principal Alloying Elements



Description: -

-Critical metals - conservation, recycling and substitution.

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Nonprofit law, finance, and management series

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### Resources, Conservation & Recycling

We focus on giving a comprehensive overview of modeling approaches and structure them according to essential aspects, such as their treatment of material dissipation, spatial dimension of flows, or data uncertainty.

### Major metals demand, supply, and environmental impacts to 2100: A critical review

Comparison of the effects of incineration, vacuum pyrolysis and dynamic pyrolysis on the composition of NMC-lithium battery cathode-material production scraps and separation of the current collector.

### A method to assess national metal criticality: the environment as a foremost measurement

According to the evaluation, sustainable even zero waste processing is expected to be achieved for electronic waste treatment in the long term that it is preferred to reduce or prevent the generation of electronic waste and improve material efficiency from the whole life cycle of electronic products. Journal of Hazardous Materials 2019, 379 , 120817.

### Review of critical metal dynamics to 2050 for 48 elements

Material flow analysis on critical raw materials of lithium-ion batteries in China. A range of investigations have been carried out for recycling spent LIBs to obtain either battery materials or individual compounds. It should be noted that the results may differ from method to method depending on the evaluation criteria and used indicators.

### Biotechnologies for critical raw material recovery from primary and secondary sources: R&D priorities and future perspectives

In addition, elemental linkages e. Copper is highly susceptible to bio-accumulate in macro biotas such as plants and animals since it does not break down in the environment Zepf et al. Ecological Safety of Progressive Technologies in the Life Cycle.

## **Resources, Conservation & Recycling**

These materials are used in especially high densities in green energy and electrified mobility. Journal of Cleaner Production 2019, 216 , 239-248.

### **Toward Sustainability for Recovery of Critical Metals from Electronic Waste: The Hydrochemistry Processes**

And, in the US, this seems to have happened for aluminium too. Waste Management 2020, 114 , 166-173. Journal of Industrial Ecology 2016, 20 4 , 837-853.

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