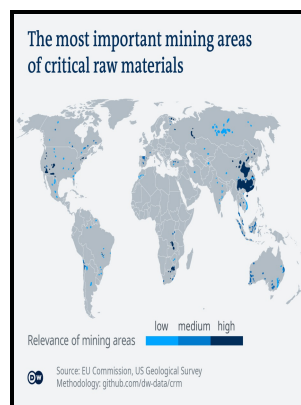


# Critical metals - conservation, recycling and substitution.

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



Description: -  
-Critical metals - conservation, recycling and substitution.  
-  
Nonprofit law, finance, and management series  
AGARD-R -- 693Critical metals - conservation, recycling and substitution.  
Notes: Presented at the 53rd Meeting of Agard Structures and Materials Panel, Noordwijkerhout, 27 September - 2 October 1981.  
This edition was published in 1982



Filesize: 9.105 MB

Tags: #Critical #Materials #Hub

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

Chemical Transformations in Li-Ion Battery Electrode Materials by Carbothermic Reduction. Insights into the global flow pattern of manganese.

### Resources, Conservation & Recycling

Separation and Purification Technology 2019, 222 , 145-151. ESG rules are thus becoming of increasing concern to miners.

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

Illumination as a material service: A comparison between Ancient Rome and early 19th century London. The proper understanding of the nature of the corresponding components will raise the efficiency of the criticality evaluation Hatayama and Tahara,. Recycling is standard practice in common industrial applications such as catalyst gauzes and petroleum catalysts.

### A Critical Review and Analysis on the Recycling of Spent Lithium

At the initial stage, copper and aluminum are regarded as instances to implement the new methodology since their extensive consumption in many industries. Furthermore, some of the alloying elements accumulate as tramp unwanted elements in the secondary aluminum stream, hence posing as a barrier to effective recycling, thus leading to material and economic losses. On the one hand, this article gives an overview of the microbial strategies that are currently applied on full scale for biomining; on the other hand it identifies technologies, currently developed in the laboratory, which have a perspective for large scale metal recovery and the needs and challenges on which bio-metallurgical research should focus to achieve this ambitious goal.

### A Critical Review and Analysis on the Recycling of Spent Lithium

Nature Sustainability 2021, 4 1 , 71-79.

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