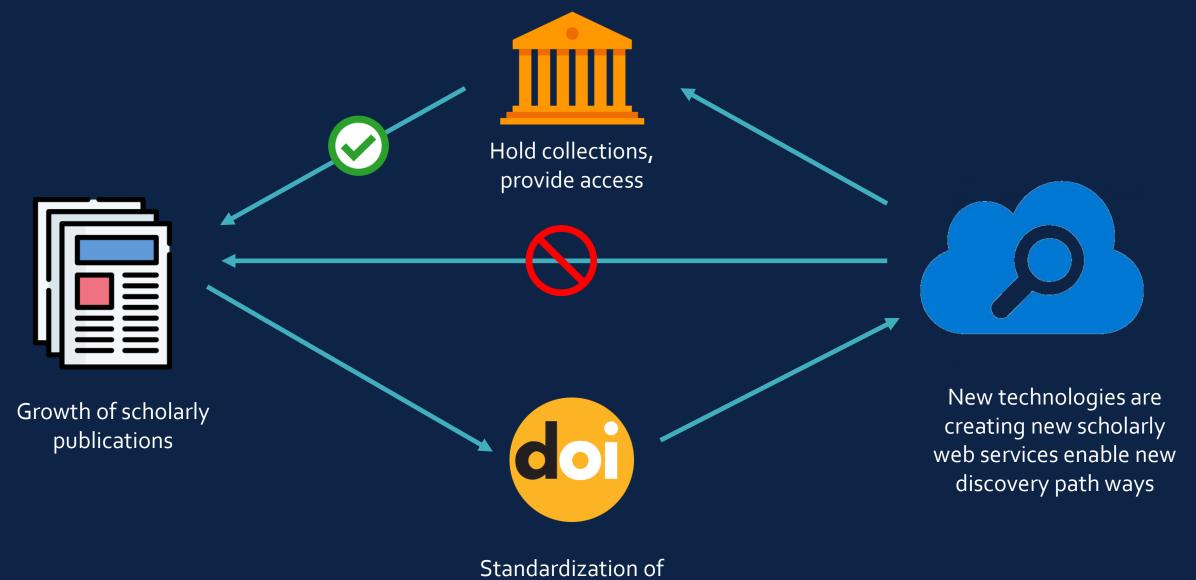
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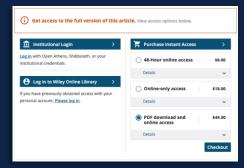


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Journal of Wildlife Management 74(2):265-273; 2010; DOI: 10.2193/2009-020



Management and Conservation Article

From Wiens to Robel: A Review of Grassland-Bird Habitat Selection

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KEY WORDS Daubenmire, grassland passerines, habitat models, habitat use, litter depth, vegetation density, vegetation height,

The widespread decline of grassland birds in North America perceived to be important for contemporary assessments of has been referred to as an unfolding "conservation crisis" (Brennan and Kuvlesky 2005:1). The continent-wide nature Not surprisingly, the number of studies examining grass-

Two important questions researchers must answer before multiple species, yet be suitably flexible and precise to reduce the need to artificially classify and categorize habitat. features deemed important to the animals being studied (Wiens 1969). Stemming from these requirements, Wiens We reviewed studies of habitat selection by grassland birds habitat based on structural vegetation characteristics such as density, height, and dispersion. The system is both efficient structural characteristics included by Wiens (1969) are still

grassland-bird habitat use. Although Wiens' (1969:86) system included a set of of these declines suggests that the causes are not local carefully chosen variables, he suggested that "...it does not isolated phenomena and likely involve the loss and seem proper to restrict consideration, a profici, to a few degradation of grassland habitat (Vickery et al. 1999k. Vickery and Herkert 2001, Brennan and Kuwlesky 2005).

Hence, efforts to stabilize or increase grassland bird studies conducted since Wiens' (1969) monograph have populations require identification of remaining habitat as a identified relevant vegetation features influencing habitat first step (Vickery and Herkert 2001), followed by habitat use that should aid researchers in defining a priori management and retoration (Breuster) and School (School and School and Scho approach would allow development of more robust habitat selection models that could be used to make informed decisions regarding habitat management. Even so, grassland bird researchers still conduct exploratory analyses because Two important querious researchers must answer before conducting any plee of habitat study are these: 1) what features of the labitat should be measured, and 2) what is the stem ended for measuring those features. Writes (1996) contracted that a description of bird habitat should be provided by the contracted that a description of bird habitat should provide stafficient detail to differentiate among habitats used by (Martin et al. 1979). Continued use of operatory analyses. and measurement of all potentially important vegetation variables suggests that either no pattern regarding grassland-Furthermore, researchers should consider those habitat bird habitat relationships has emerged, or that apparent

(1969) developed a protocol for quantifying grassland bird in North America to 1) summarize methods used by identify patterns of grassland-bird vegetation associations and easy to use in the field, making it one of the preferred methods for quantifying grassland bird habitat. Many of the relevant vegetation characteristics for researchers to consid er, 2) challenge researchers to critically think about what variables to consider, and 3) highlight the need to include

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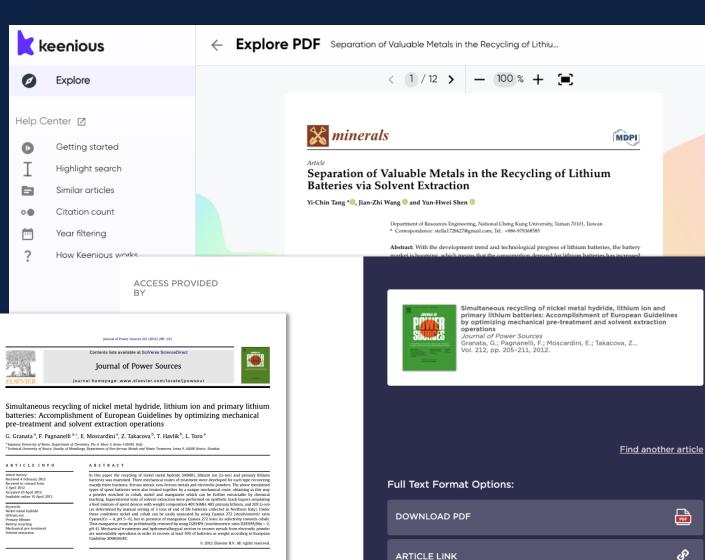
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Journal Article \leftarrow Journal Article **"** 77 Simultaneous recycling of nickel metal hydride, lithium ion and primary lithium batteries: Accomplishment of European Guidelines by optimizing mechanical pre-treatment and solvent extraction operations August 14th, 2012 Journal of Power Sources 👱 Giuseppe Granata 👤 Francesca Pagnanelli 🔭 +4 ABSTRACT In this paper the recycling of nickel metal hydride (NiMH), lithium ion (Li-ion) and primary lithium batteries was examined. Three mechanical routes of treatment were developed for each type recovering mainly three fractions: ferrous metals, non-ferrous metals and electrodic powders. The above mentioned types of spent batteries were also treated together by a unique mechanical route, obtaining in this way a powder enriched in cobalt, nickel and manganese which can be further extractable by chemical leaching. Experimental tests of solvent extraction were performed on synthetic leach liquors simulating a feed mixture of spent devices with weight composition 40% NiMH, 40% Expand Abstract > Access Full-Text CITED BY 102

10.1016/j.jpowsour.2012.04.016

TOPICS 10 •

1. Introduction

Both technological innovation and market expansion lead to a dramatic increase in the production of electric and electronic equipments as well as household batteries necessary for their usage. In particular end of life household batteries become a source of possible contamination because, once in landfill, their components (mercury, lead, copper, zinc, cadmium, manganese, nickel and cobalt etc.), can be leached following up natural infiltration

According to the European Guideline, 2006/66/EC [2] which aims to minimize the environmental impact of both productive process and end of life batteries, in the next years several goals must be achieved about collection and recycling. In particular 25% of apent hatteriest must be collected by September 2018, but the collected by September 2018, but here established that received instances and all ear valuable substances such as Li and Min, controlling processes of batteries must ensure to achieve at least a 50% of recycling by average weight.

Many authors mainly focused on leaching investigations and

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Research activities were focused on the development of economically and environmentally sound processes for battery recycling [3], also considering that they contain considerable amounts of valuable materials and then possible economical benefits for investors in this field. Economical benefits are related to the possibility of both selling all recovered products and earning public money just by the activity of collecting and recycling [4].

In addition only few researchers focused on the recycling of

smany authors manny focuser on reaching investigations and they found up the required operating conditions to dissolve all metals from the electrodic powders. Anyway most works were performed by preliminary manual dismantling of few samples in laboratory scale, without considering the upstream operations of

In the current literature there are many works concerning the hydrometallurgical treatment of batteries and accumulators. Most ngurometalungica i reatment of a single-type of devices such as of them focused on the treatment of a single-type of devices such as Li-ion [5–7] and NiMH accumulators [8–11]. Important reviews summarizing the technologic advances about battery recycling have been also published [12,13].

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