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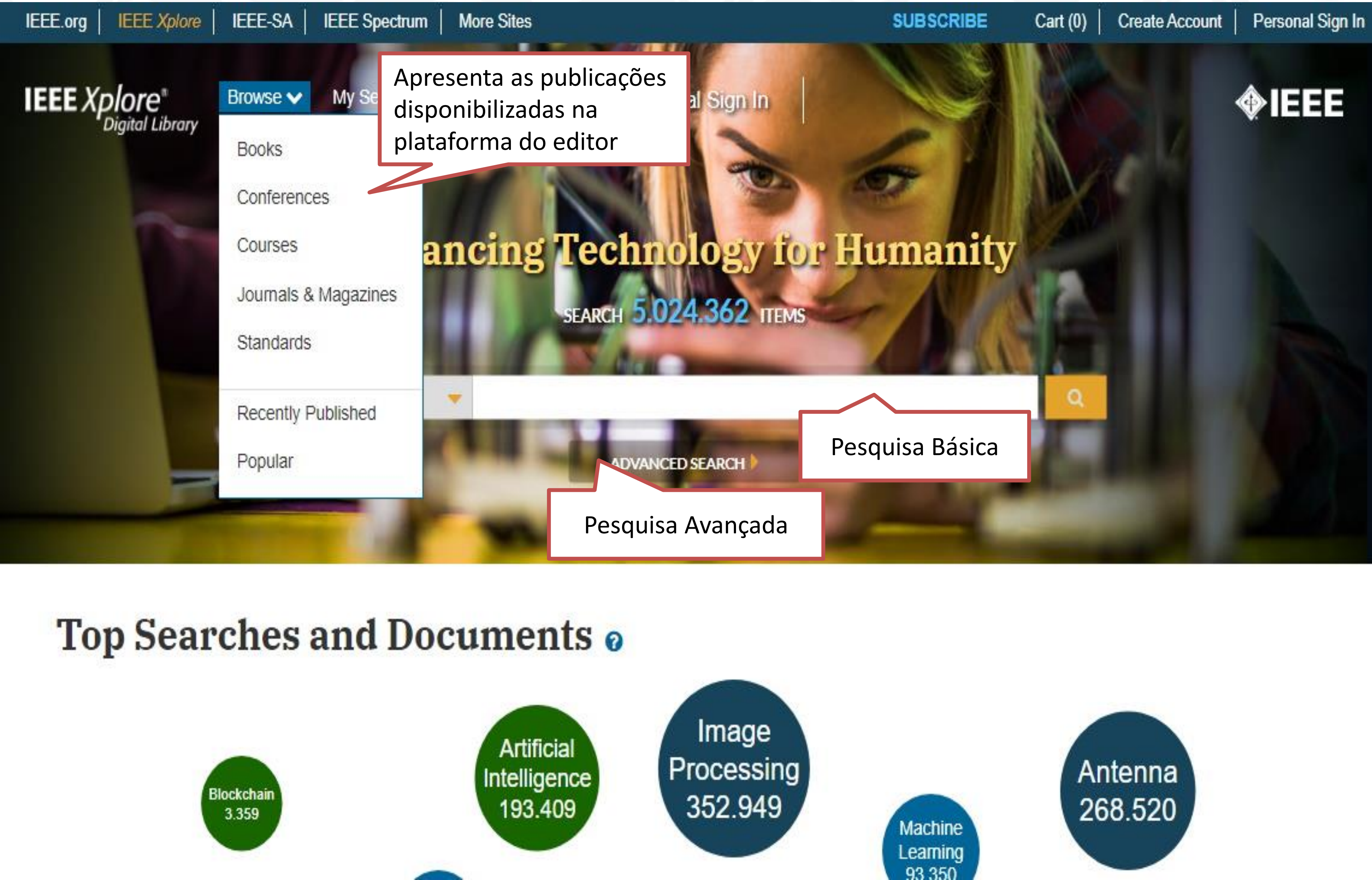

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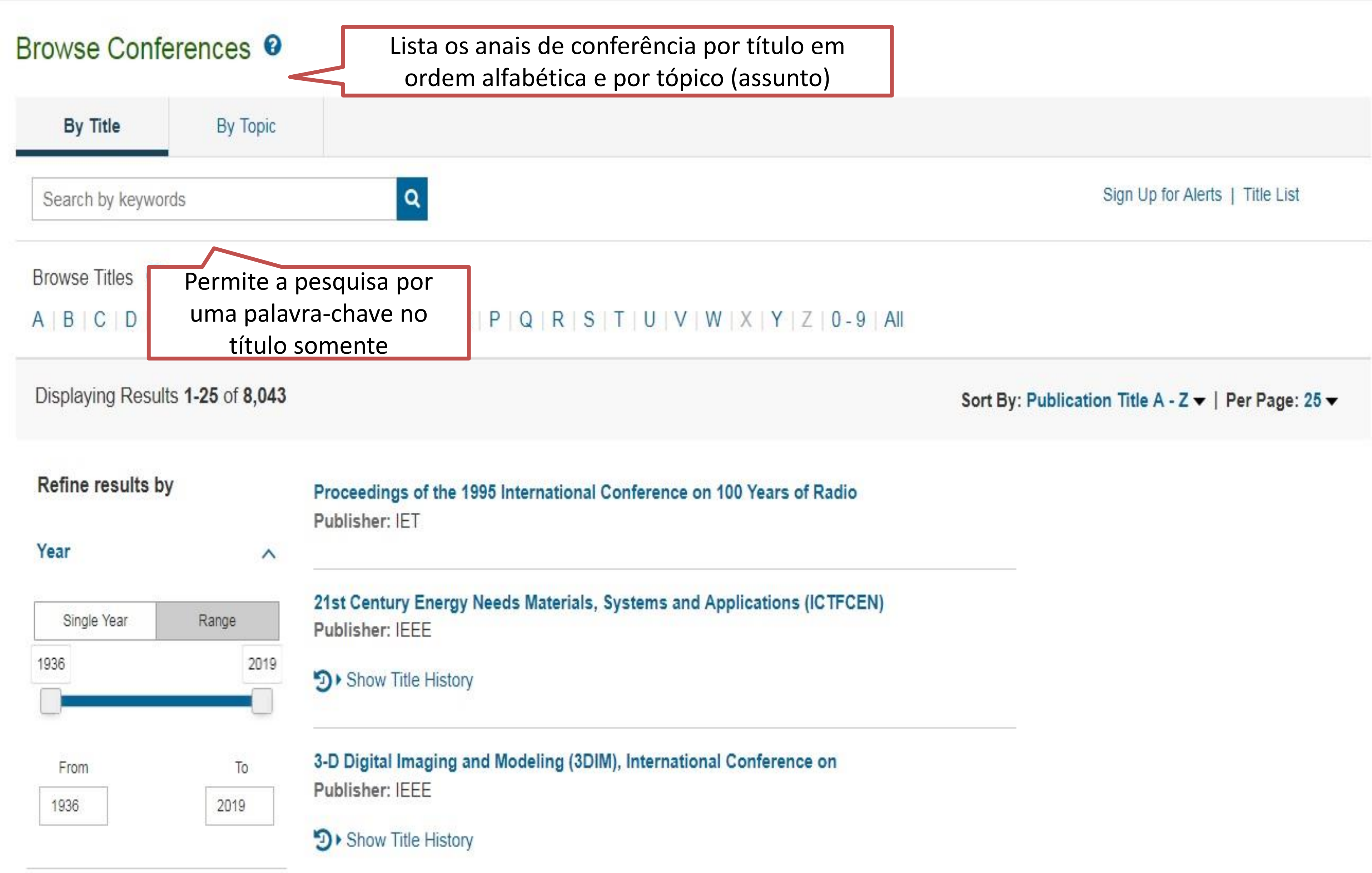

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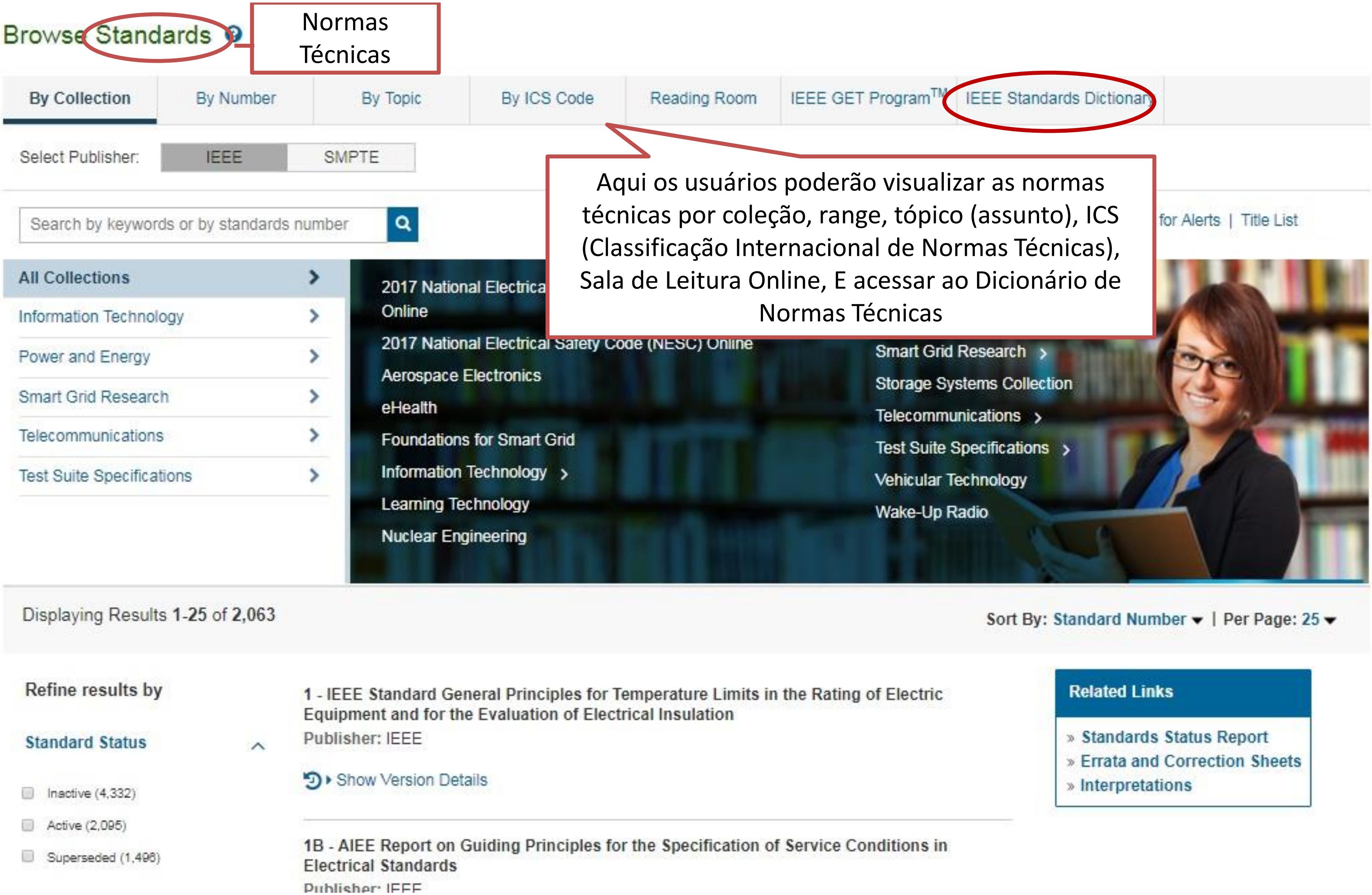

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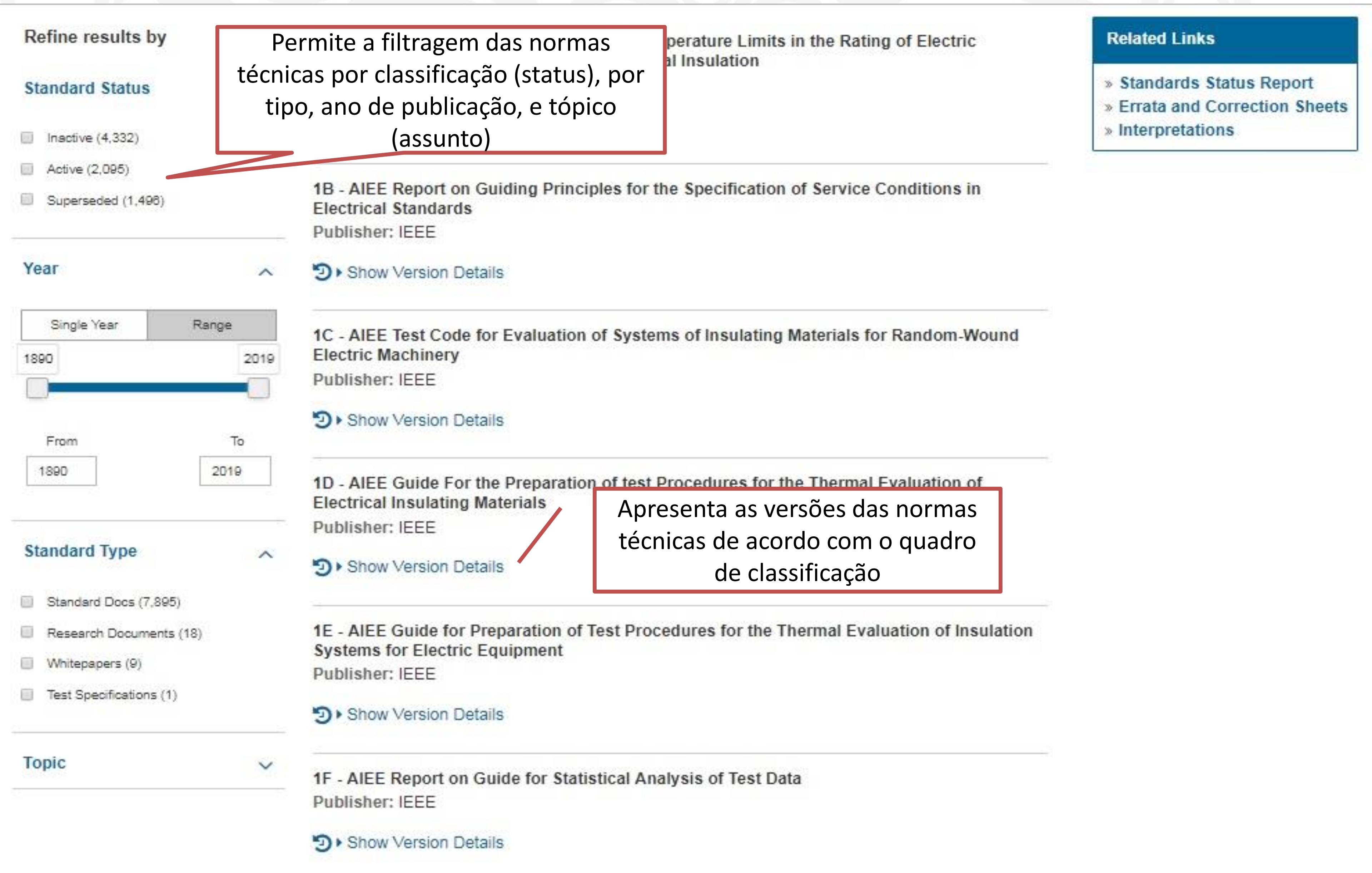

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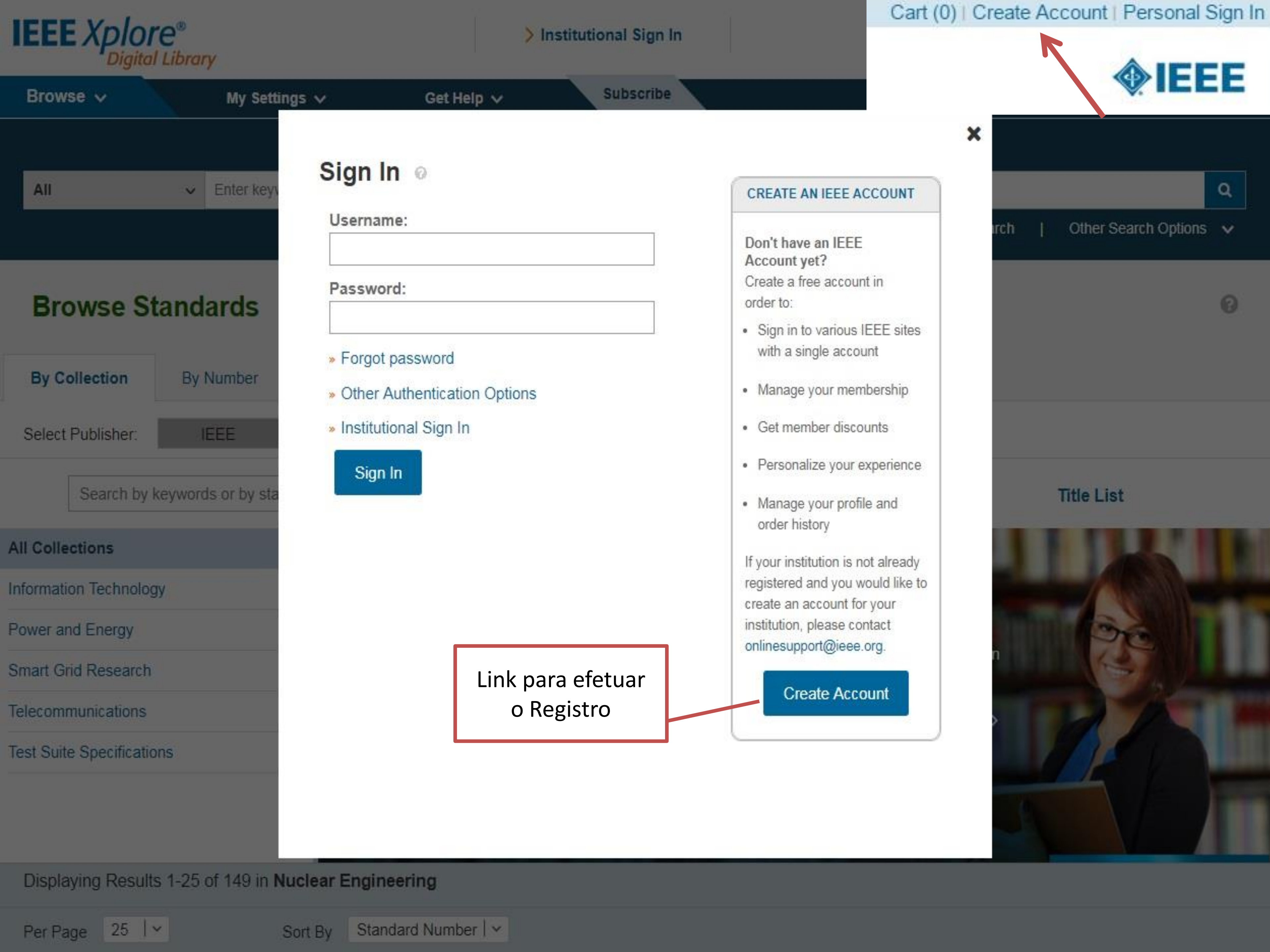

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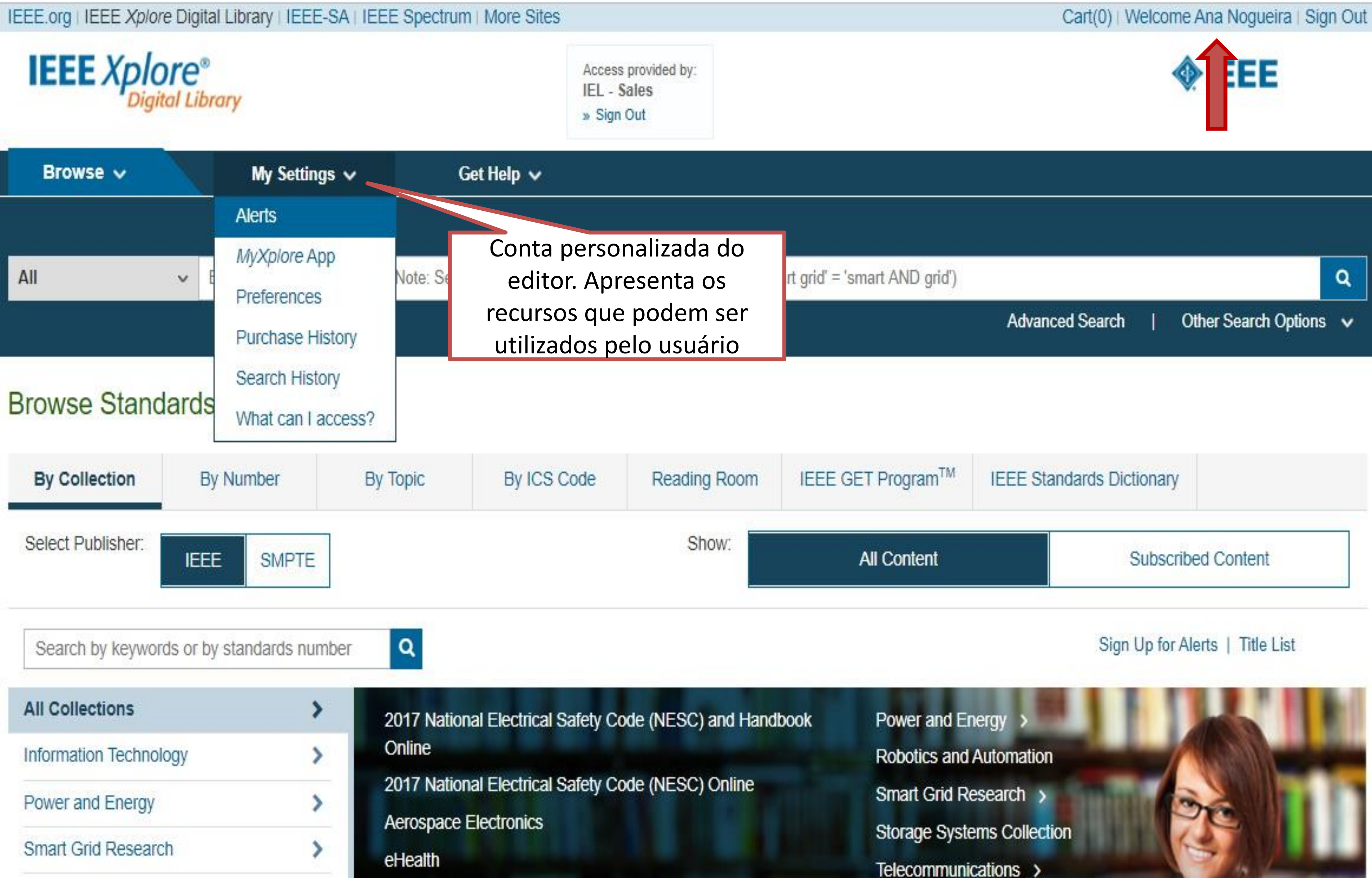

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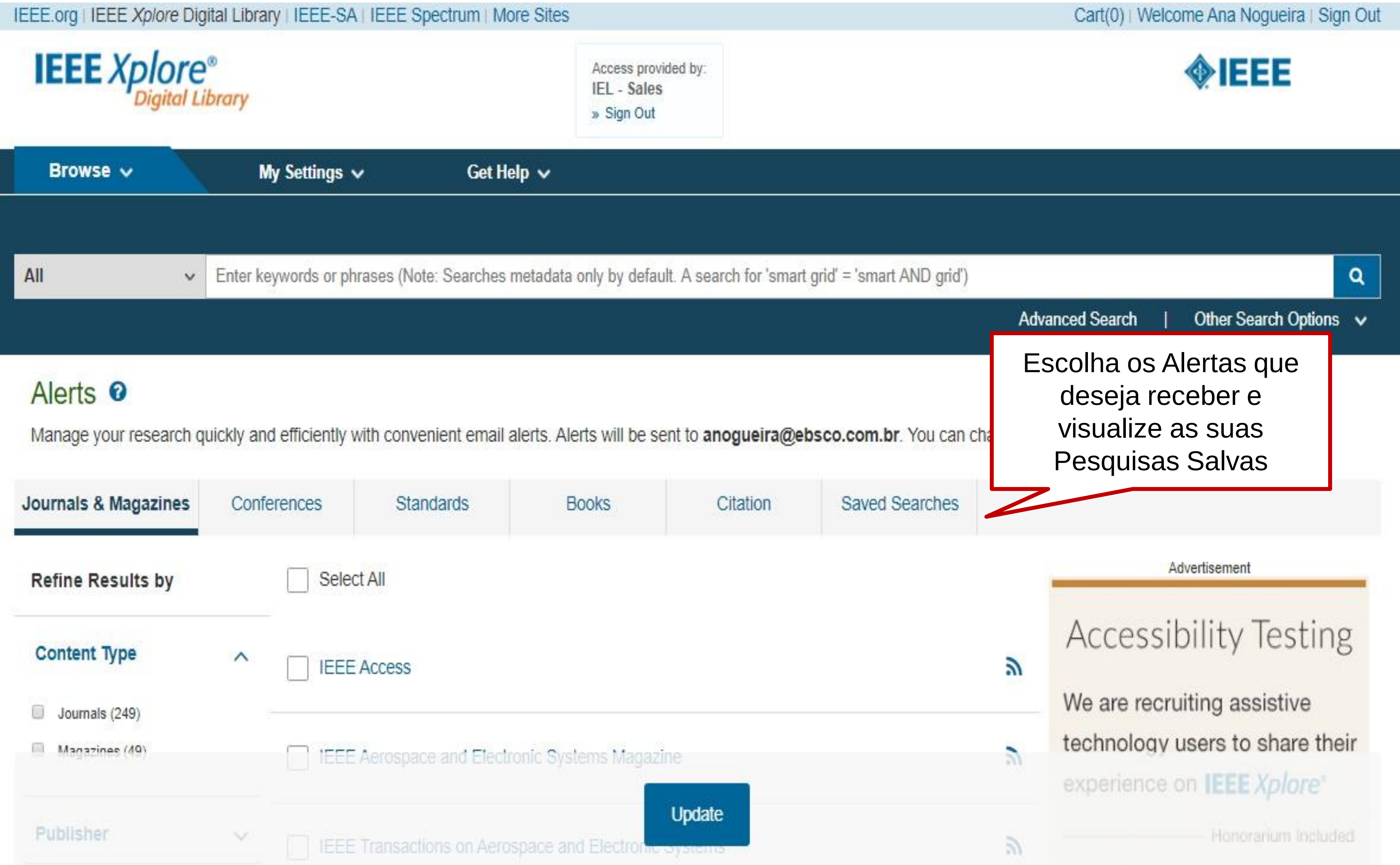

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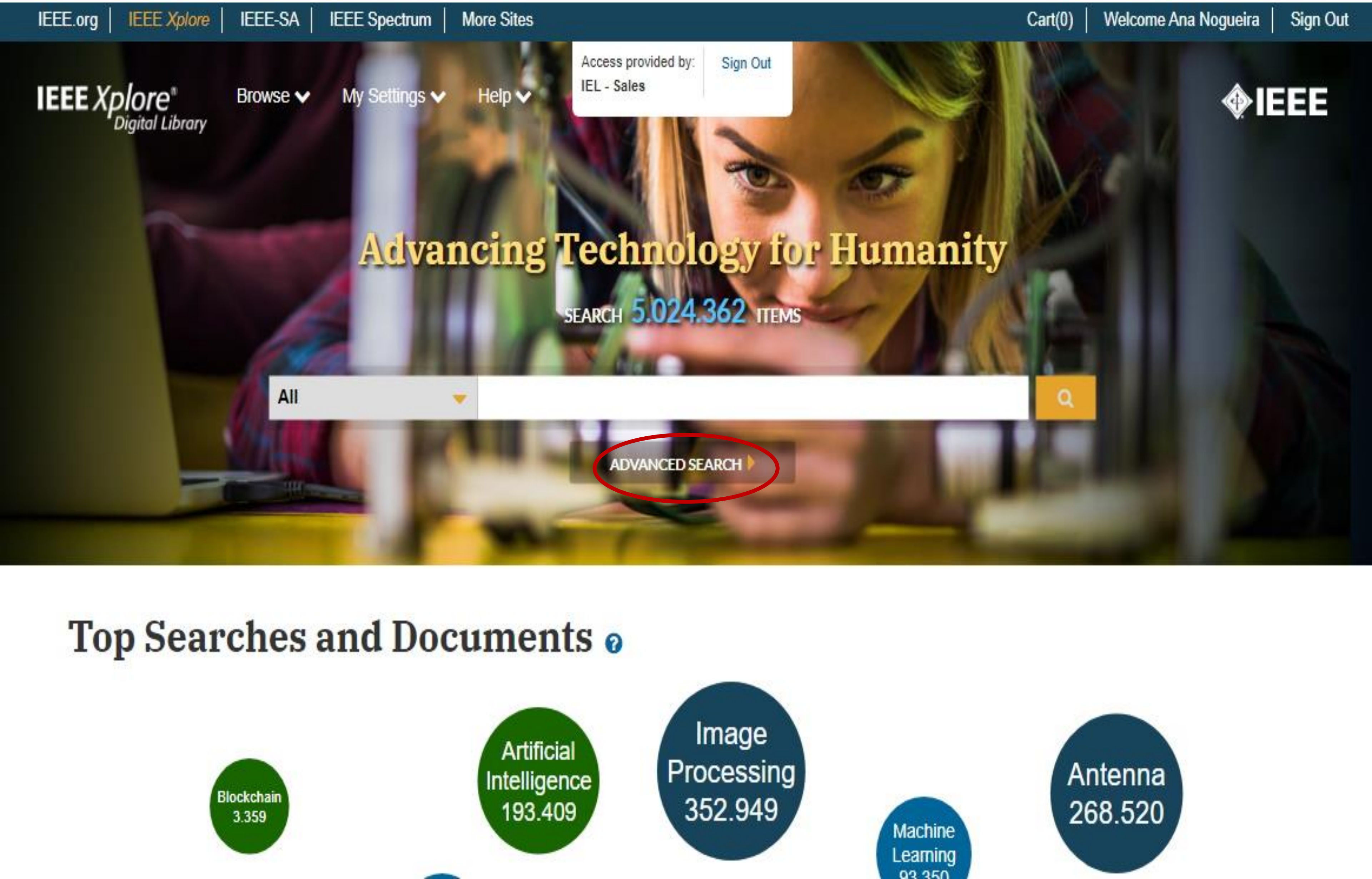

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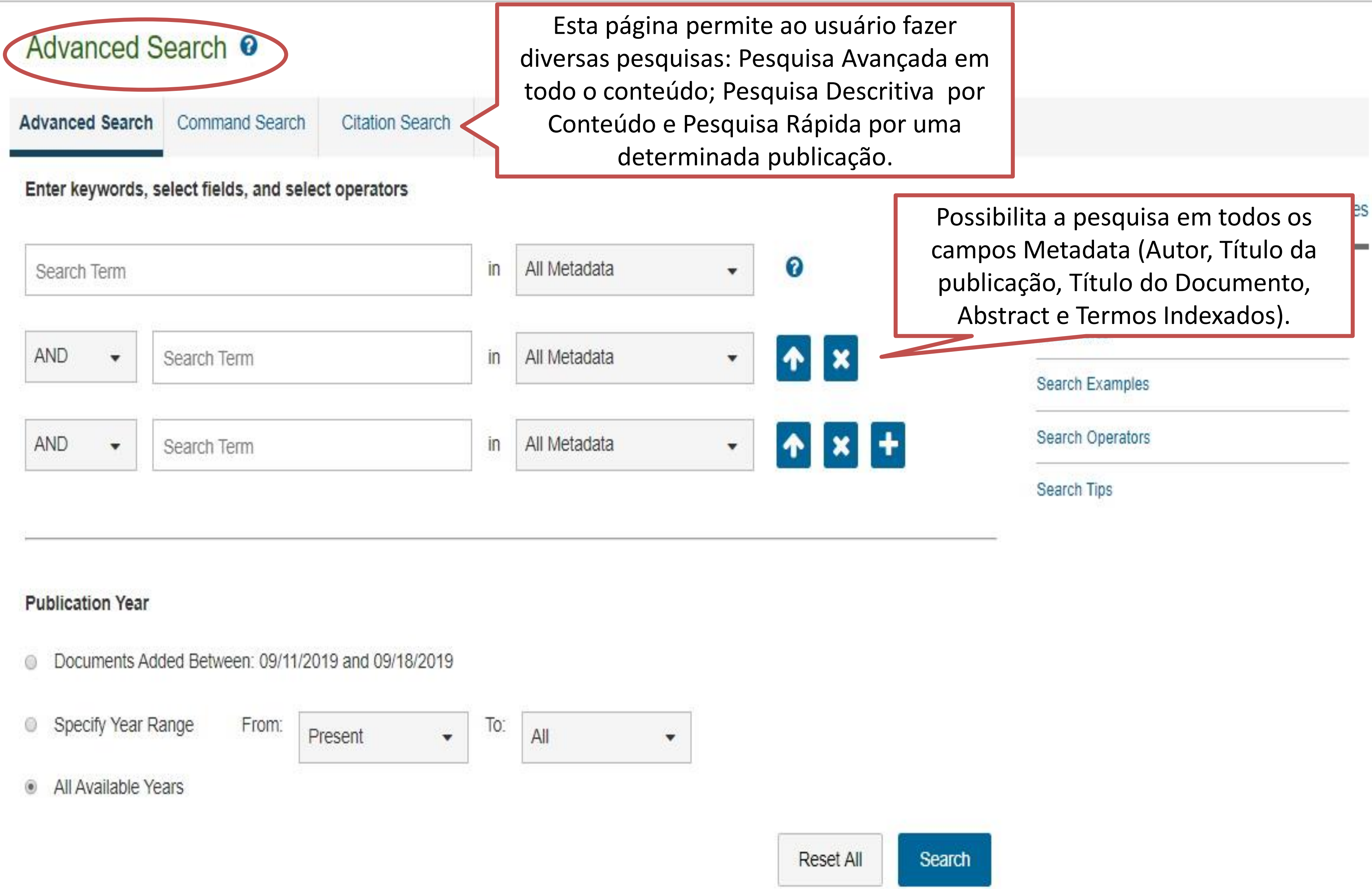

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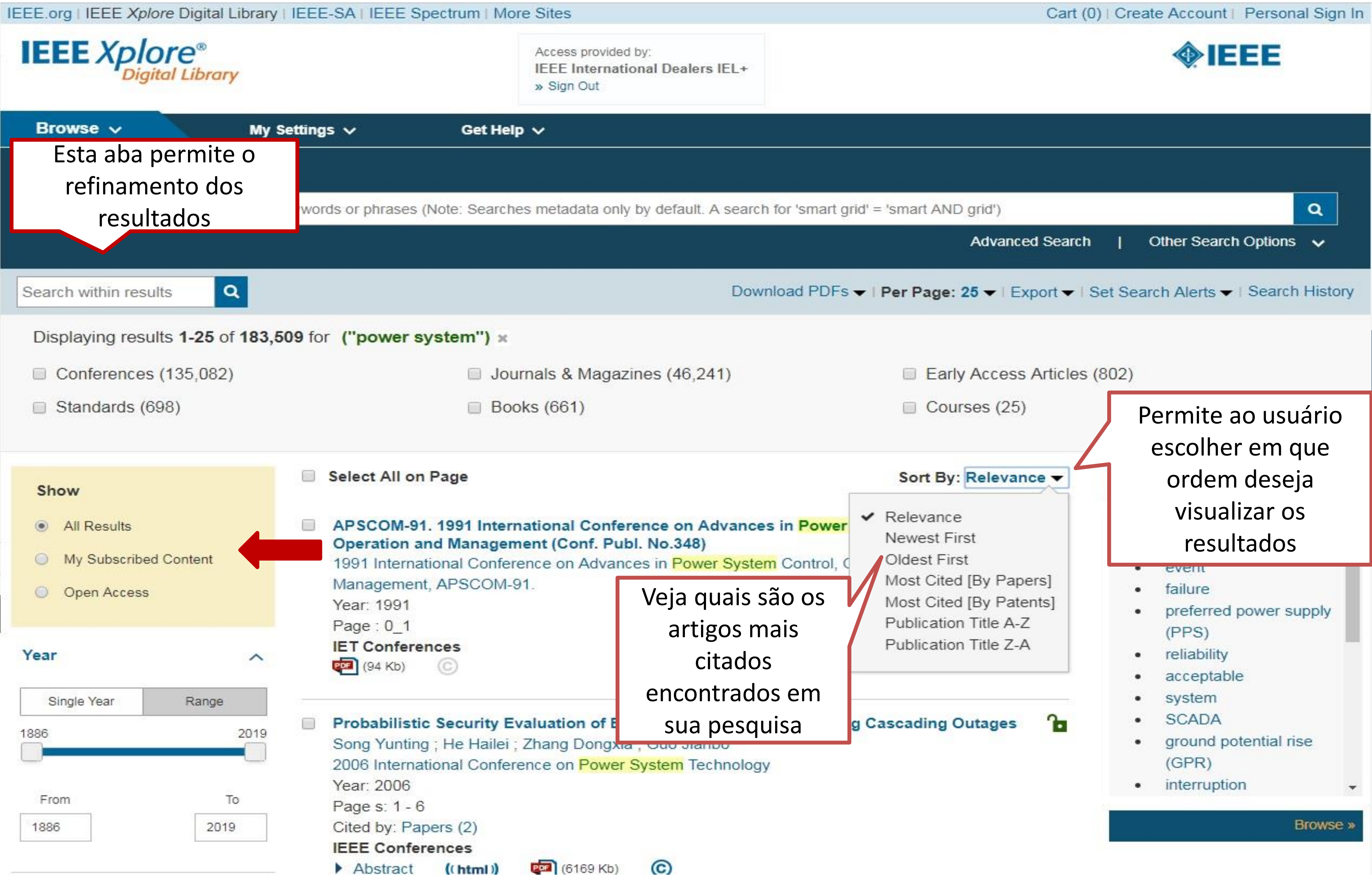

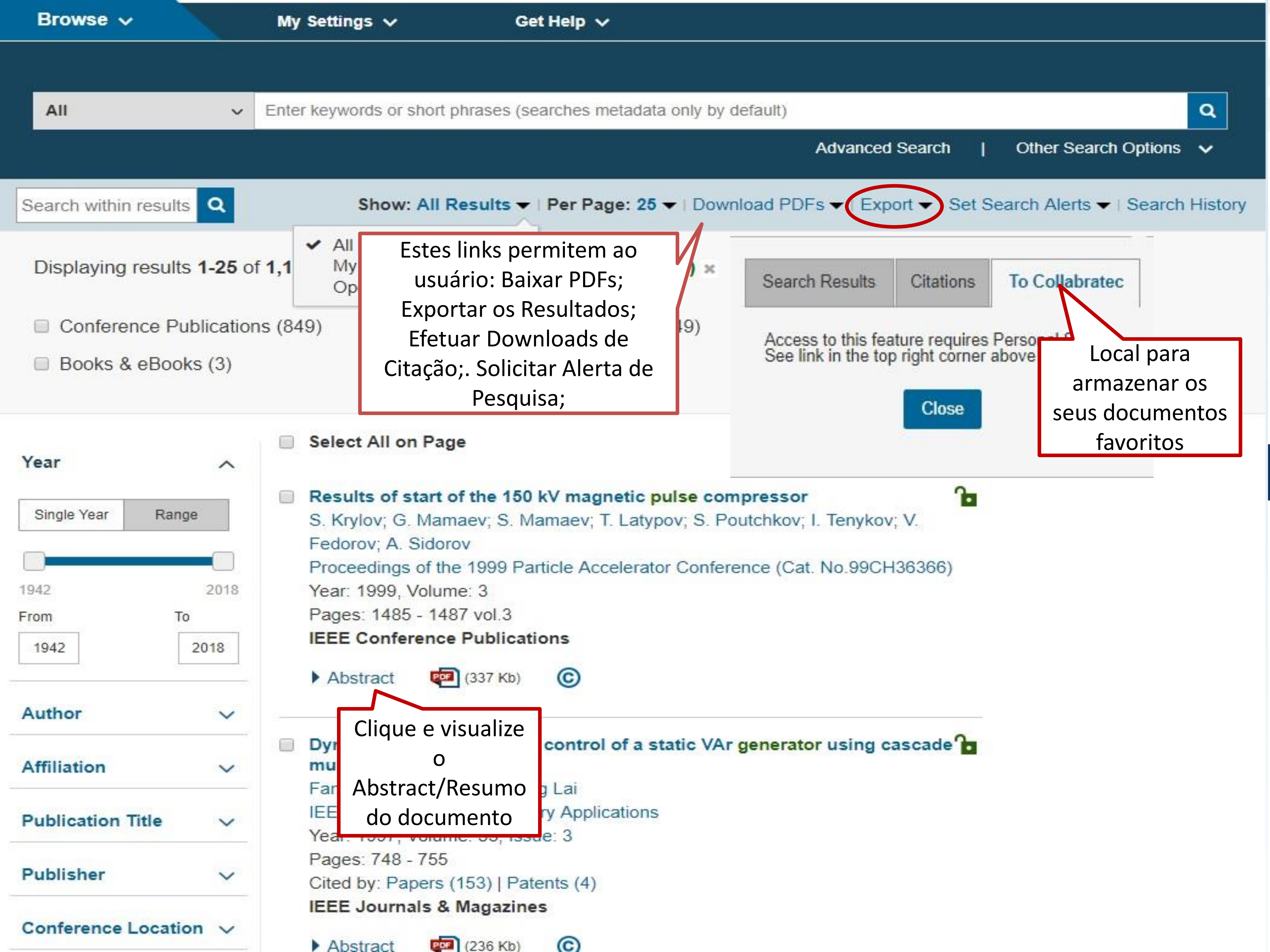

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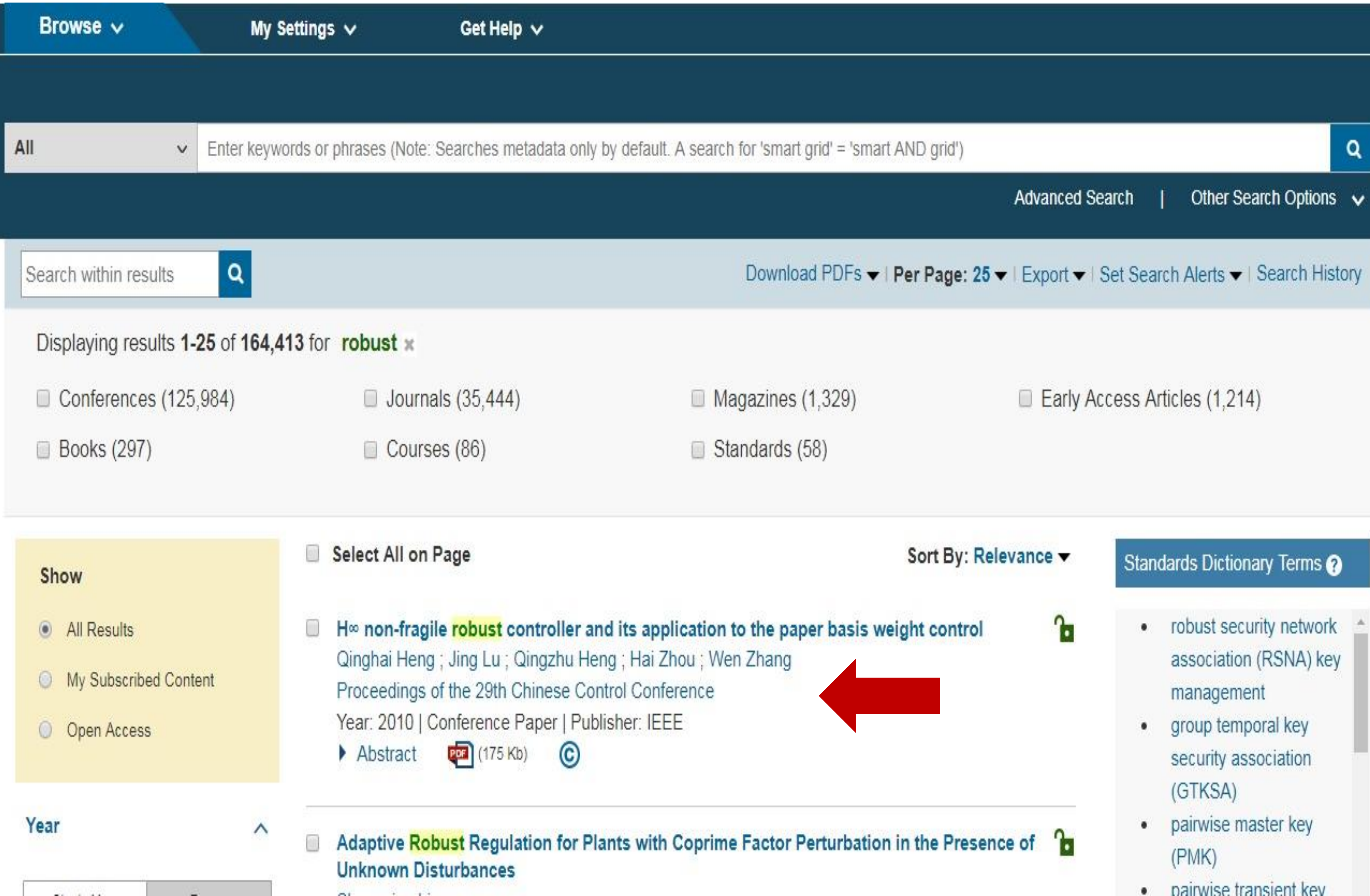

Robust Detection and Analysis of Power System Oscillations Using the Teager-Kaiser Energy Operator

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SECTION I.
Introduction

Oscillation monitoring [1]–[2][3][4][5] is a topic of increasing recent attention, owing to a heightened interest in the prevention of widespread blackouts, which can result from uncontrolled power swings across large geographical areas. Basically, the entity responsible for this task should first determine from power system response signals when/if there is an oscillation issue and then quantify the underlying threat by means of an accurate assessment of the frequency and damping of the oscillation. Since the early days of modal analysis of power system responses recorded by WAMS [6] or simulated using power system studies software [7], the two issues of detecting and quantifying oscillations have been generally mixed together with few exceptions [8]–[9][10], but detailed analysis obviously makes little sense when there is no significant oscillation activity in the electromechanical frequency range (typically 0.1–3 Hz).

In this paper, a Teager-Kaiser energy operator (TKEO) [11]–[12][13][14] based criterion is proposed as a predictor of power oscillation problems. To the best of our knowledge, this is the first time that the TKEO concept has been used in this context. Since the concept is known to perform poorly on multi-component signals [13], a multi-band pre-filter is first applied to the raw input. This allows us to decompose the waveform into a set of largely orthogonal monochromatic components which are then subjected to time-frequency analysis using the energy separation algorithm (ESA). One of the benefits of the linear filter bank is that, when the prototype is designed with a very narrow bandwidth, e.g., 0.2 Hz, any analysis method applied to the output will provide noise-resilient frequency and damping estimates.

Recent authors have investigated closely related ideas using the EMD as filter bank [15] and discrete Hilbert transform (DHT) as the basis for instantaneous frequency and amplitude estimation [16], [17].

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Inductive Pulsed Power Supply Consisting of Superconducting Pulsed Power Transformers With Marx Generator Methodology

Haitao Li, Yu Wang, Weirong Chen, Wenbo Luo, Zhongming Yan, and Liang Wang

***Abstract*—We have been developing an inductive pulsed power supply (PS) consisting of several superconducting pulsed power transformers with Marx generator methodology. Each of these pulsed power transformers consists of a copper secondary winding and a high-temperature superconducting primary winding. In order to obtain a high-voltage impulse, the Marx generator should be charged via the parallel connection of capacitors and discharged**

When energy transfer is required, a rapid current collapse in the primary winding is excited, and a large level of current is induced in the secondary winding. In this case, another problem occurs, i.e., the load voltage on the secondary side moves to the primary side with multiplied voltage by the winding ratio of the transformer, and as a result, it becomes difficult to open the

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