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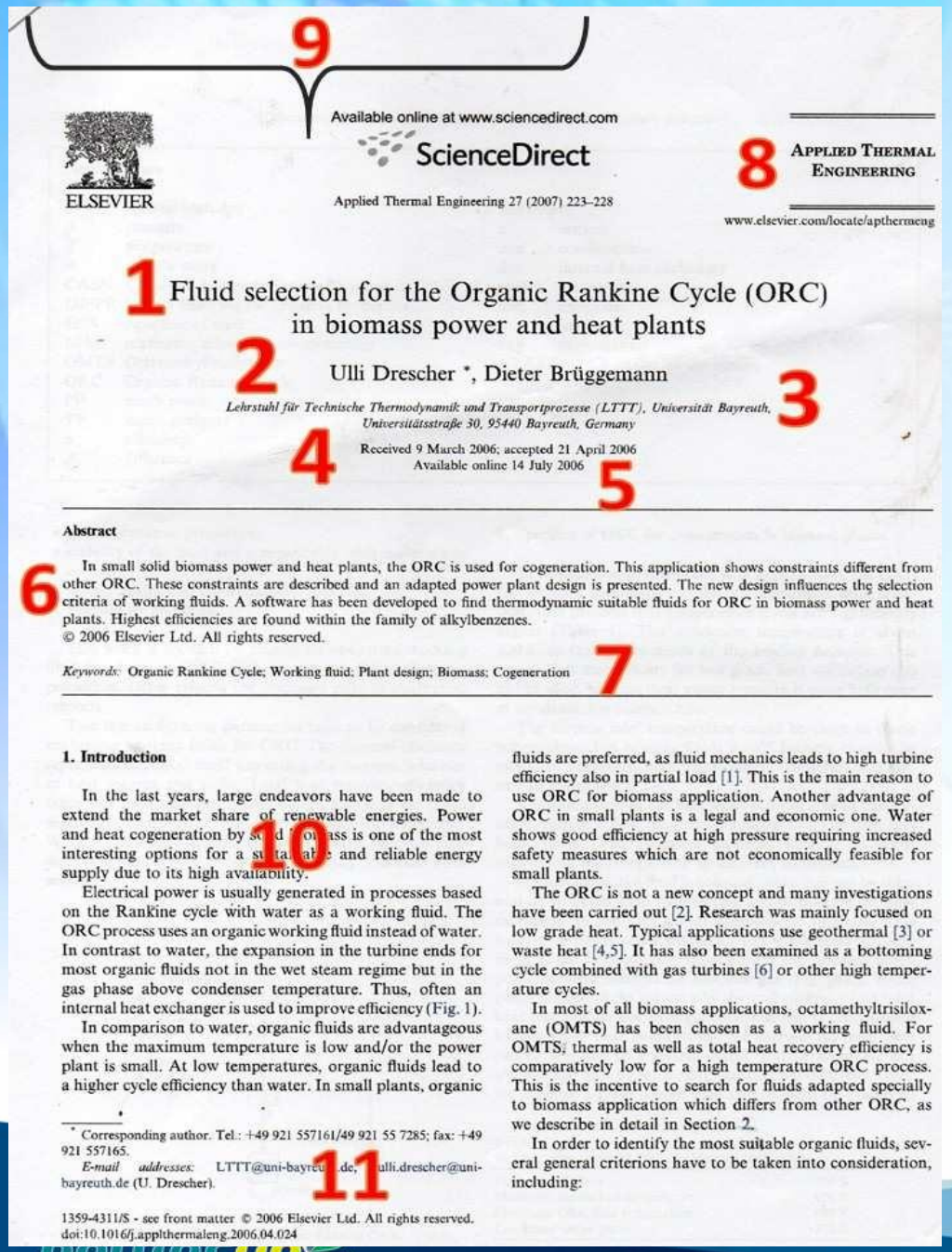

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1 Fluid selection for the Organic Rankine Cycle (ORC) in biomass power and heat plants

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4 Received 9 March 2006; accepted 21 April 2006
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5

**Abstract**

6 In small solid biomass power and heat plants, the ORC is used for cogeneration. This application shows constraints different from other ORC. These constraints are described and an adapted power plant design is presented. The new design influences the selection criteria of working fluids. A software has been developed to find thermodynamic suitable fluids for ORC in biomass power and heat plants. Highest efficiencies are found within the family of alkylbenzenes.
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7 *Keywords:* Organic Rankine Cycle; Working fluid; Plant design; Biomass; Cogeneration

**1. Introduction**

10 In the last years, large endeavors have been made to extend the market share of renewable energies. Power and heat cogeneration by solid biomass is one of the most interesting options for a sustainable and reliable energy supply due to its high availability.

Electrical power is usually generated in processes based on the Rankine cycle with water as a working fluid. The ORC process uses an organic working fluid instead of water. In contrast to water, the expansion in the turbine ends for most organic fluids not in the wet steam regime but in the gas phase above condenser temperature. Thus, often an internal heat exchanger is used to improve efficiency (Fig. 1).

In comparison to water, organic fluids are advantageous when the maximum temperature is low and/or the power plant is small. At low temperatures, organic fluids lead to a higher cycle efficiency than water. In small plants, organic fluids are preferred, as fluid mechanics leads to high turbine efficiency also in partial load [1]. This is the main reason to use ORC for biomass application. Another advantage of ORC in small plants is a legal and economic one. Water shows good efficiency at high pressure requiring increased safety measures which are not economically feasible for small plants.

The ORC is not a new concept and many investigations have been carried out [2]. Research was mainly focused on low grade heat. Typical applications use geothermal [3] or waste heat [4,5]. It has also been examined as a bottoming cycle combined with gas turbines [6] or other high temperature cycles.

In most of all biomass applications, octamethyltrisiloxane (OMTS) has been chosen as a working fluid. For OMTS, thermal as well as total heat recovery efficiency is comparatively low for a high temperature ORC process. This is the incentive to search for fluids adapted specially to biomass application which differs from other ORC, as we describe in detail in Section 2.

In order to identify the most suitable organic fluids, several general criterions have to be taken into consideration, including:

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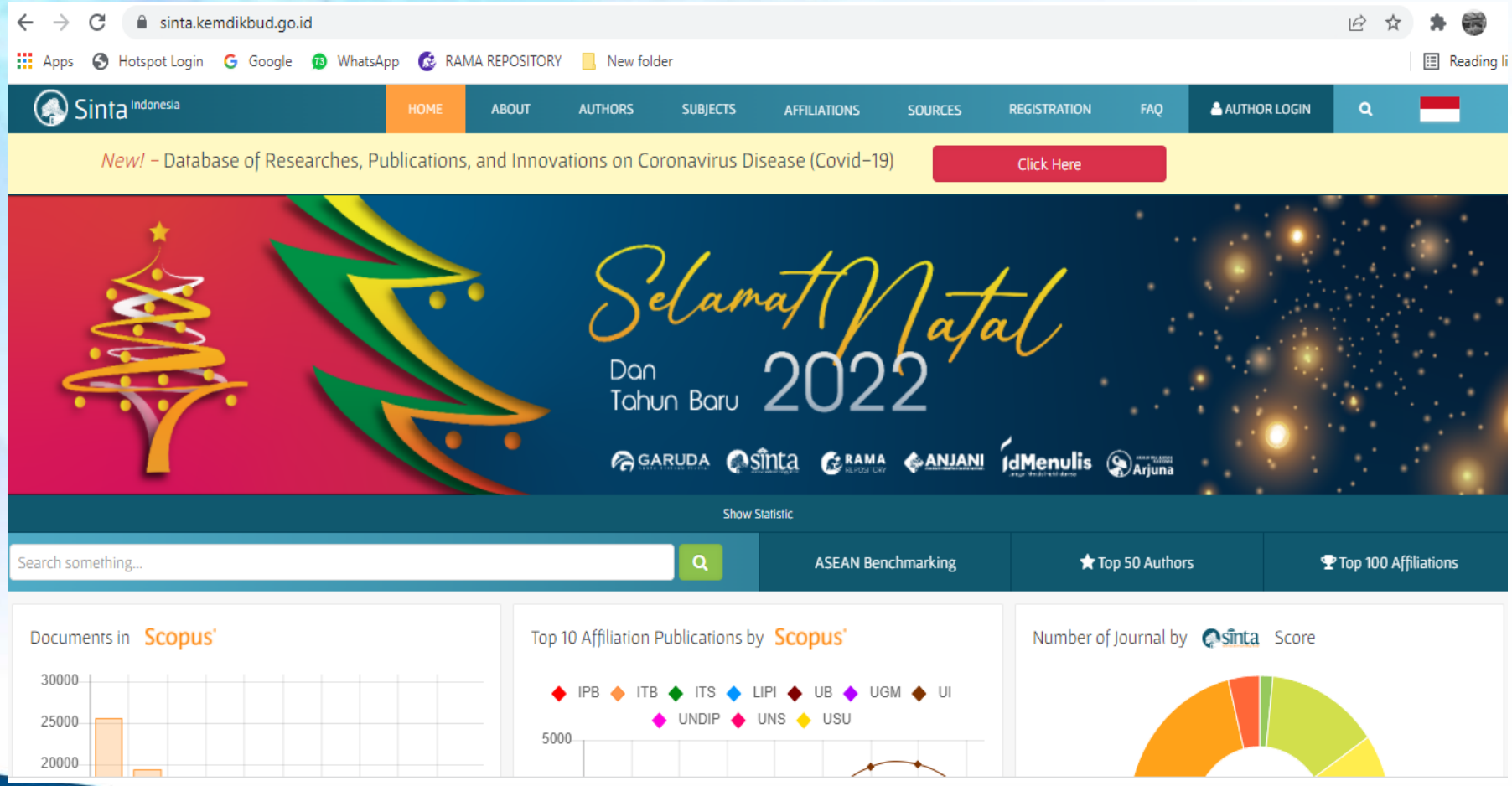

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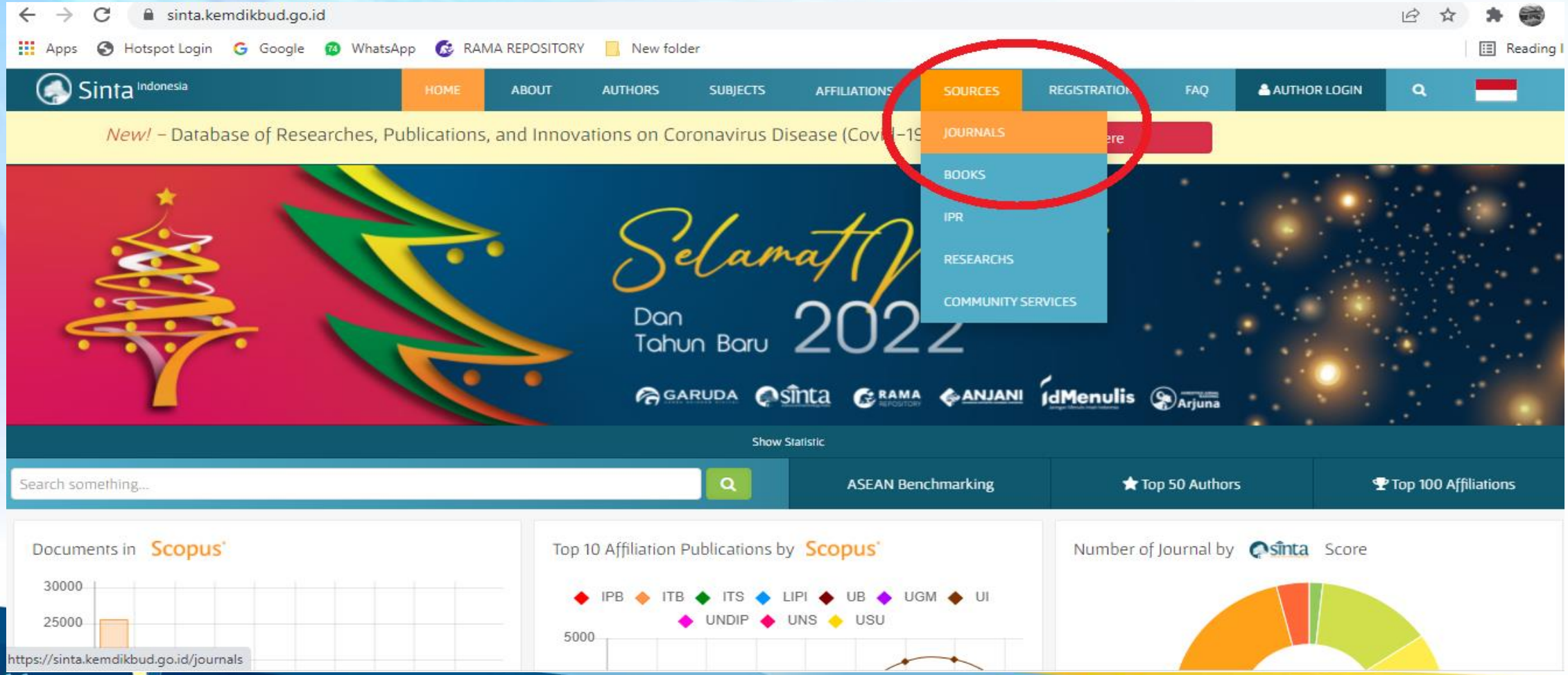

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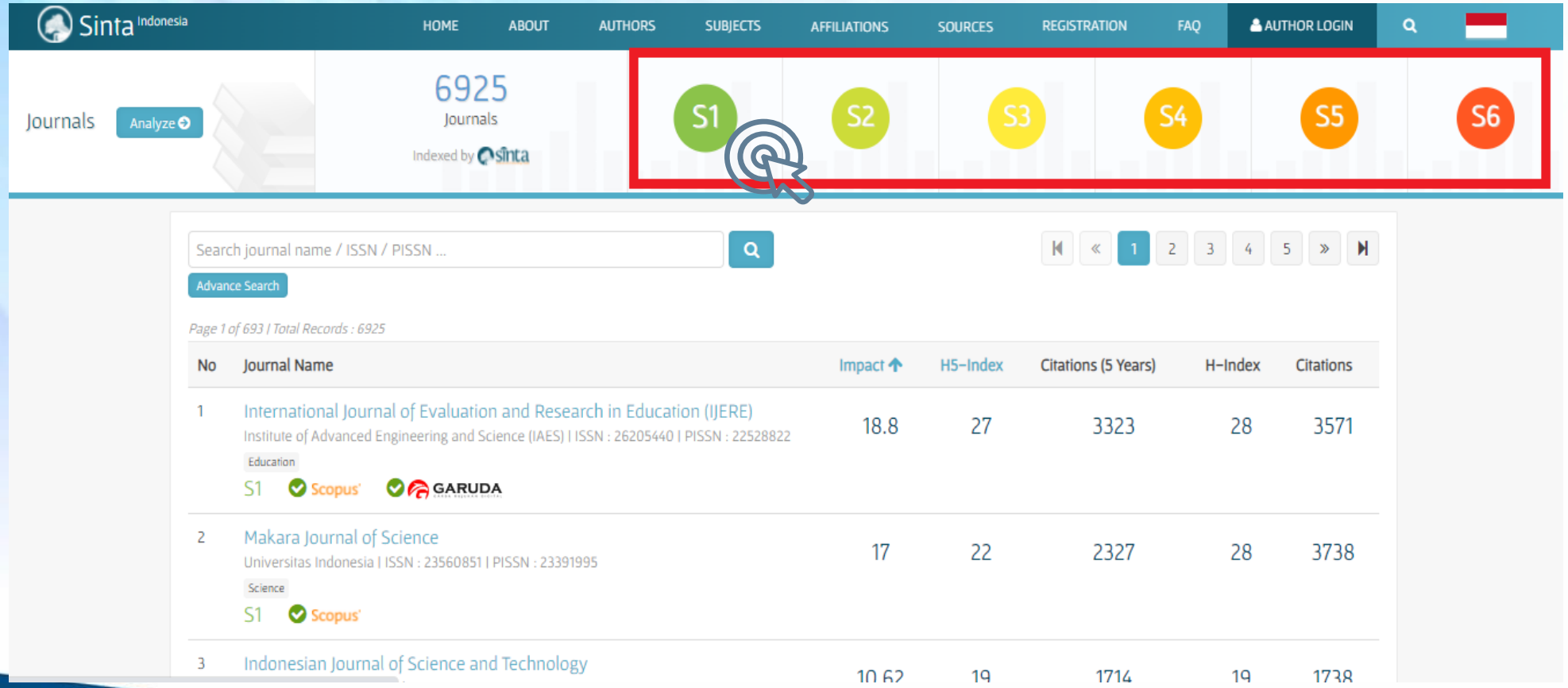

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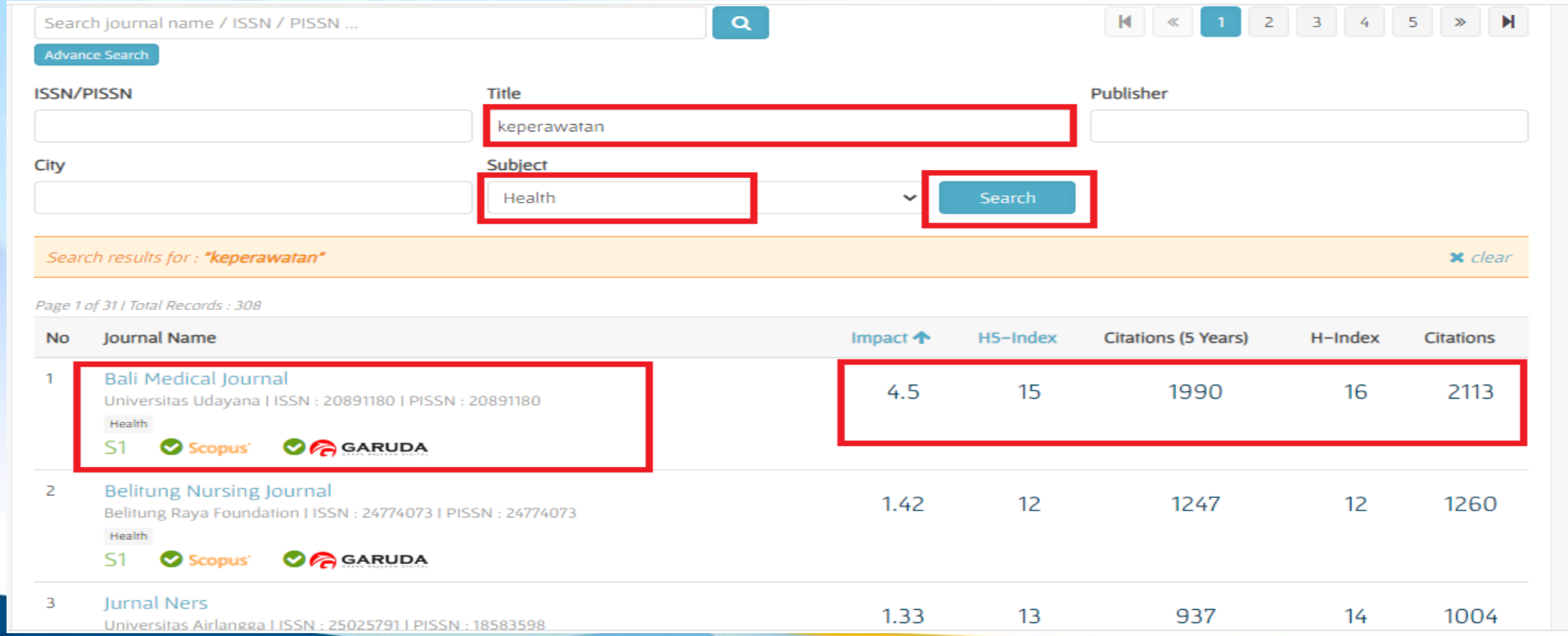

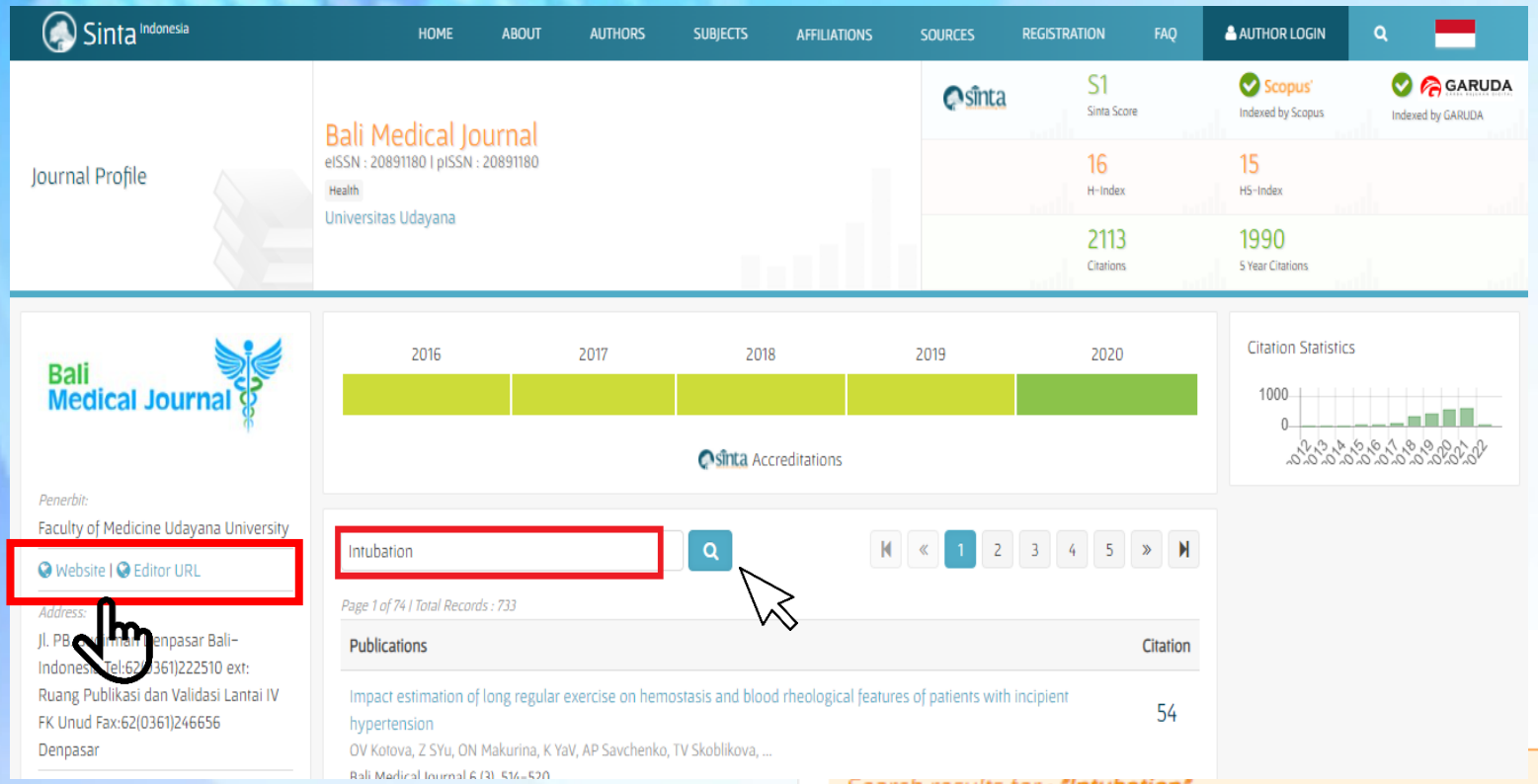
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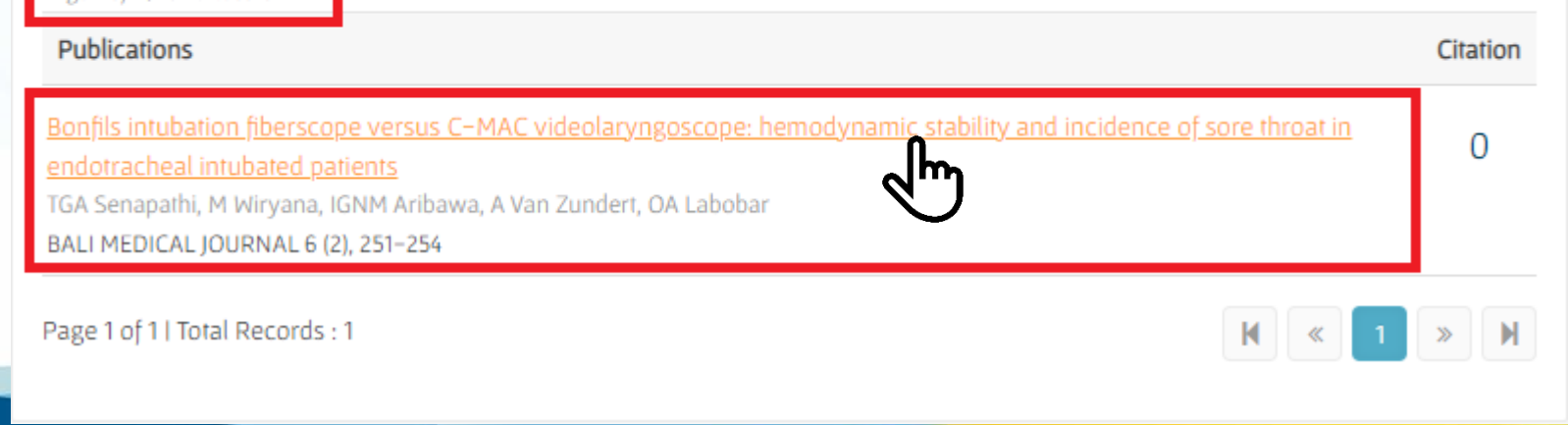
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ORIGINAL ARTICLE

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# Bonfils intubation fiberscope versus C-MAC videolaryngoscope: hemodynamic stability and incidence of sore throat in endotracheal intubated patients

Tjokorda Gde Agung Senapathi,[1] Made Wiryana,[2] I Gusti Ngurah Mahaalit Aribawa,[3] Andre Van Zundert,[4] Otniel Adrians Labobar[5*]

## ABSTRACT

**Introduction:** Hemodynamic stability at laryngoscopic intubation is influenced by mechanical stimuli on the affected area of the oropharynx. The use of appropriate tools can lower mechanical stimuli and lead to a better outcome. The purpose of this study was to determine whether the use of Bonfils intubation fiberscope provided a better hemodynamic stability, and decreased the incidence of a sore throat compared to Macintosh videolaryngoscope.

**Materials and Methods:** We conducted a non-blind randomized controlled trial. It was conducted at Sanglah Hospital, Indonesia, in September to October 2016 with a sample of 50 people. The sample was divided into two groups. The patients were induced by propofol TCI target effect 4 µg/ml and analgesia with fentanyl 2 mcg/kg. Hemodynamic conditions assessed since the induction, one minute before intubation, and one minute, three minutes, and five minutes after laryngoscopy intubation. A sore throat was evaluated before and after treatment.

**Results:** The MAP value and pulse rate in one minute and three minutes after laryngoscopy intubation in CMAC group were significantly higher compared to Bonfils group ($p<0.001$). The proportion of a postoperative sore throat is significantly different between the two groups ($p=0.042$).

**Conclusion:** Bonfils intubation fiberscope proved better in providing hemodynamic stability and decreased the incidence of a sore throat compared to Macintosh videolaryngoscope in patients underwent general anesthesia.

**Keywords:** Bonfils intubation fiberscope, C-MAC videolaryngoscope, hemodynamic, sore throat.
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