

15.2 Supporting Land Ecosystems through Education

15.2.3 Preserving and Expanding Ecosystems and Biodiversity

Since 2013, USU has a garden that is also an ex-situ, which located in the front of the Rectorate Building. In this ex-situ, there are Sambars Deer (*Cervus unicolor*) and various types of birds and geese. USU also have an arboretum with diverse collection of flora in Kwala Bekala Campus. USU is fully committed to the preserving and maintaining ecosystems. This is also the background for USU to establish the Center of Excellence (PUI) for Eucalyptus and Mangrove. These two centers of excellence actively carry out research and community service activities in order to support ecosystem maintenance. PUI Mangrove has become the first PUI in USU that recognized by the Directorate of Research, Technology and Community Service, Ministry of Education, Culture, Research and Technology. It is stated in the Decree of the Director General of Higher Education, Research and Technology number: 0753/E5/AL.04/2022 dated 12 August 2022. USU also involves students in maintaining ecosystems which can be seen from the USU Merdeka Belajar Kampus Merdeka (MBKM) Program in collaboration with Yayasan Ekosistem Lestari (YEL), where students are given the opportunity to intern at YEL.

Evidence's

- **Program to maintain and extend existing ecosystems and their biodiversity, of both plants and animals, especially ecosystems under threat**

1. Environmental Education Outreach

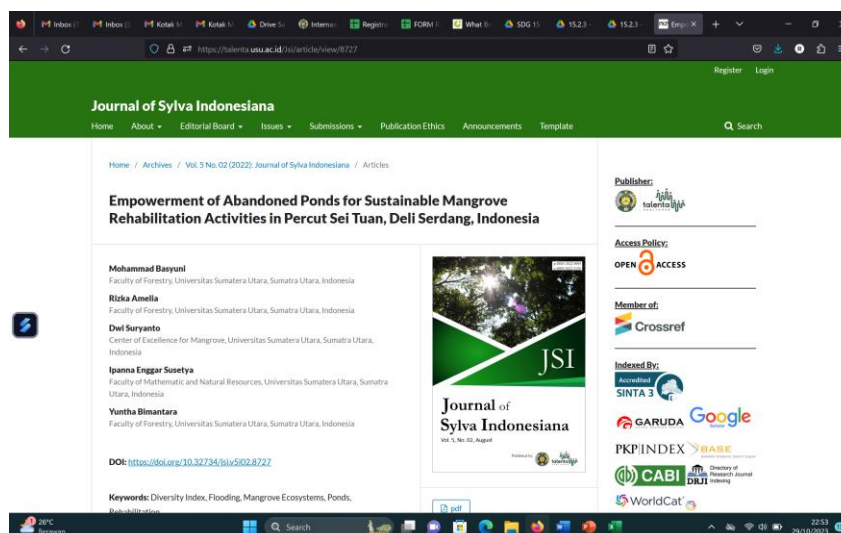


Link:

<https://suarausu.or.id/ajak-sekolah-untuk-hijaukan-lingkungan-rimbapala-kehutanan-usu-adakan-penyuluhan-lingkungan-hidup/>

- **Publication**

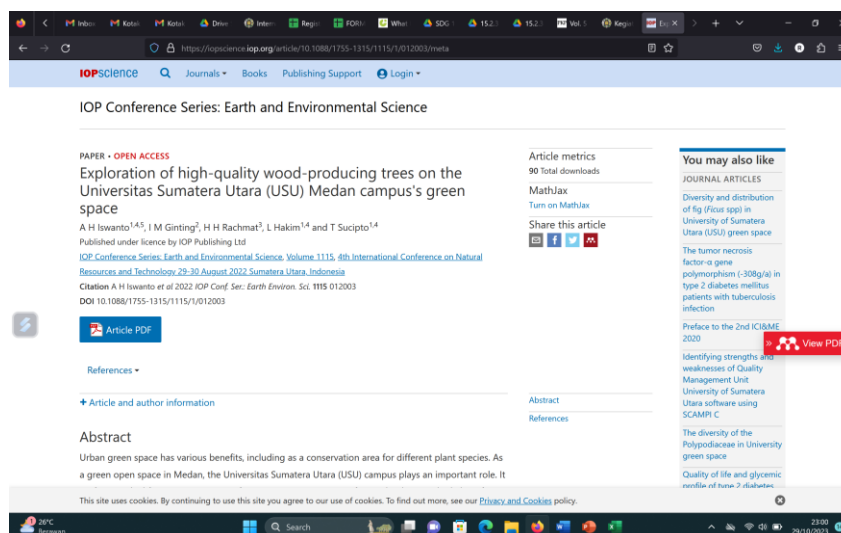
1. Empowerment of Abandoned Ponds for Sustainable Mangrove Rehabilitation Activities in Percut Sei Tuan, Deli Serdang, Indonesia



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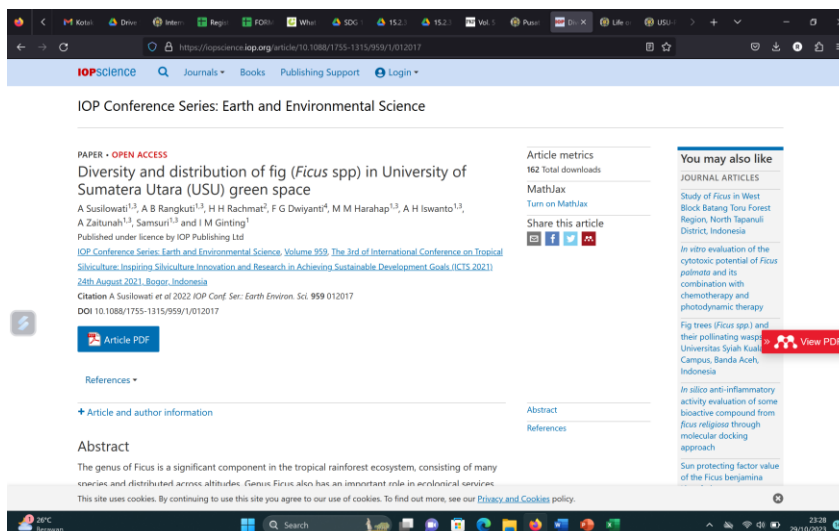
2. Exploration of high-quality wood-producing trees on the Universitas Sumatera Utara (USU) Medan campus's green space



IOP Conf. Ser.: Earth Environ. Sci. 1115 012003

2022

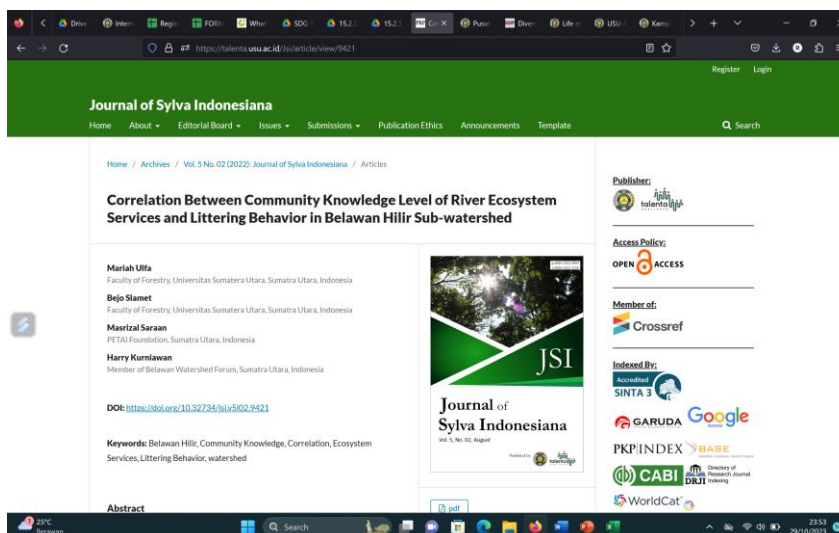
3. Diversity and distribution of fig (*Ficus* spp) in University of Sumatera Utara (USU) green space



IOP Conf. Ser.: Earth Environ. Sci. 959 012017

2022

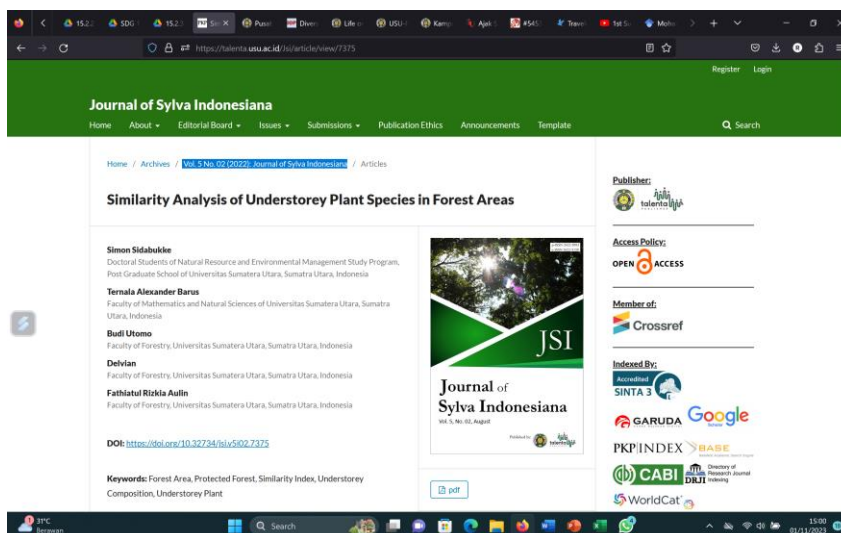
4. Correlation Between Community Knowledge Level of River Ecosystem Services and Littering Behavior in Belawan Hilir Sub-watershed



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5. Similarity Analysis of Understorey Plant Species in Forest Areas



The screenshot shows the website for the Journal of Sylva Indonesiana. The article title is "Similarity Analysis of Understorey Plant Species in Forest Areas". The authors listed are Simon Sidabukke, Ternala Alexander Barus, Budi Utomo, Delvian, and Fathiatul Rizkia Aulin. The article is published in Volume 5, No. 02, 2022. The DOI is <https://doi.org/10.32734/jsiv502.7375>. The keywords are Forest Area, Protected Forest, Similarity Index, Understorey Composition, and Understorey Plant. The journal is published by Universitas Sumatera Utara and is an Open Access journal. It is indexed by SINTA 3, GARUDA, Google, PKPINDEX, BASE, CABI, and WorldCat.

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Ex-Situ Conservation Area



