I have reviewed the paper entitled "Characteristics of agricultural phosphorus migration loss in different purple soil layers on sloping cropland under natural rainfall conditions"

. Basically, this research is meaningful for the management of phosphorus fertilization on agricultural land and recommendations for soil and water conservation to save the ecology from the danger of pollution. The language is good. However, this paper still has many shortcomings that need to be corrected.

Main comments see below:

A.INTROUCTION

- 1. It is very important in the introduction to convey the factors that affect the migration of phosphorus elements in the soil such as erosion and run off. It is important to convey the sources of phosphorus in soil and the chemical form of phosphorus in soil and water.
- 2.It is very important to convey what factors affect erosion and run off that affect the migration of phosphorus in the soil
- 3.It is very important to convey what soil and water conservation models are capable of controlling erosion and run-off and at the same time controlling the migration of phosphorus in agricultural land.

MATERIAL AND METHOD

- 4. it is very important to explain the name of the purple soil in the usda name system or soil classification in soil taxonomy
- 5.It is very important to explain what soil conservation is given to the soil in the experimental plot. In the period of planting corn and planting mustard greens as well as explaining the practice of tilling the soil in the experimental plot with hoeing, plowing etc. The slope in the experimental plot of 15⁰ is equivalent to 26 % slope, meaning that this land must be provided with terraces and mulch conservation, otherwise the erosion and phosphorus migration is definitely greater than the flat area.

- 6. It is very important to analyze soil texture, soil bulk density, soil pH, organic matter, organic carbon, available phosphorus and total phosphorus in each soil layer in the experimental plot at a depth of 0-20 cm, 20-40cm and 40-60cm. Soil samples were taken with auger and ring samples.
- 7. It is very important to convey the method used in carrying out the analysis of phosphorus in water and phosphorus in soil samples. it is important to describe sampling points in soil and water in the experimental plot during and after rain
- 8. It is very important to measure the dry weight of sediment stored in run-off shelters to assess the level of soil erosion that occurs when it rains on the experimental plot. This data is the basis for calculating soil loss in the experimental plot in units of kg/plot/year and tons/ha/year

RESULT AND DISCUSSION

9. It is very important to explain the theory or model to measure and run off on the 0-20 cm and 20 cm-40 cm surfaces. Measuring run off at the 0 cm surface is understandable but measuring run off at layers 20-40 cm, 40-60 cm to calculate phosphorus migration in kg/ha/year is important to explain.

10.It is very important on the results to make a table that contains the average of all observations from soil physics (texture, soil permeability, bulk density (BD). It is also important that the average soil chemistry (organic c , available phosphorus and total phosphorus , soil pH)) It is also important that the average chemical concentration of water (form of phosphorus in water) is also important. It is also important that the average annual runoff, the average sediment held or soil erosion per year and the average annual rainfall are important. It is important to make statistics in the form of maximum minimum values and standard deviations and correlation of each factor.

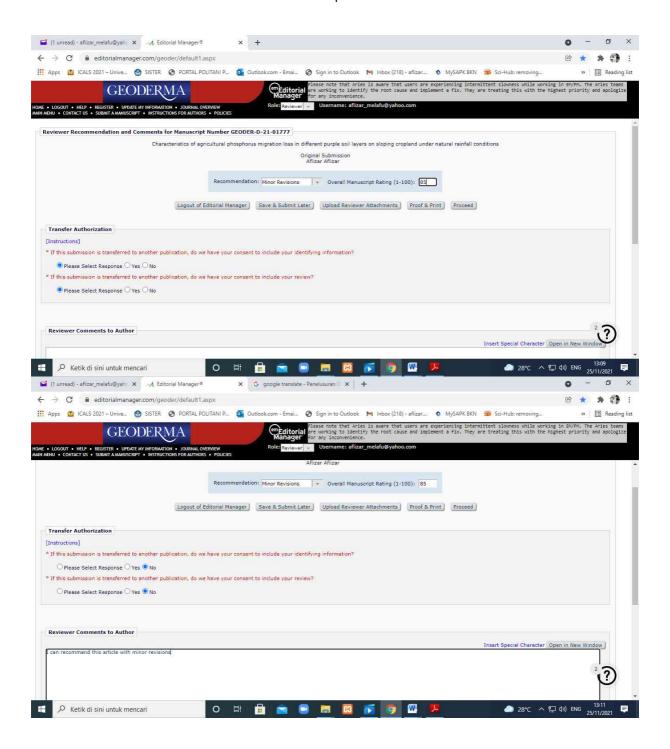
11. The data in table 1 is important to compare the results with the available P content of the soil in tons per hectare and the total soil phosphorus in tons/ha for 3 layers of soil depth. Counting concept. Soil volume x BDx phosphorus concentration in the soil. This is the importance of calculating soil BD g/cm3.

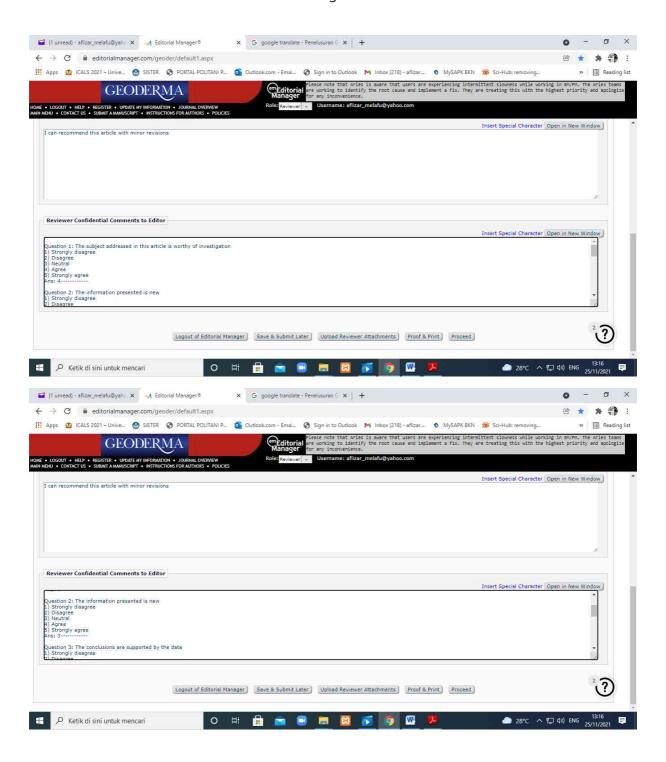
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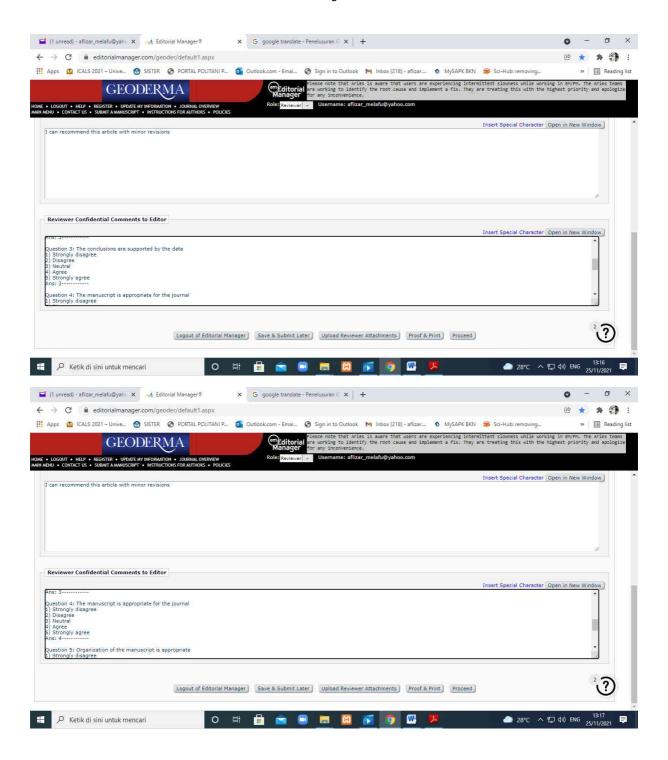
Available P concentration x BD x soil volume

25 mg/kg x 1 g/cm3 x $(2x10^6 dm^3) = 50 kg/ha P$ available

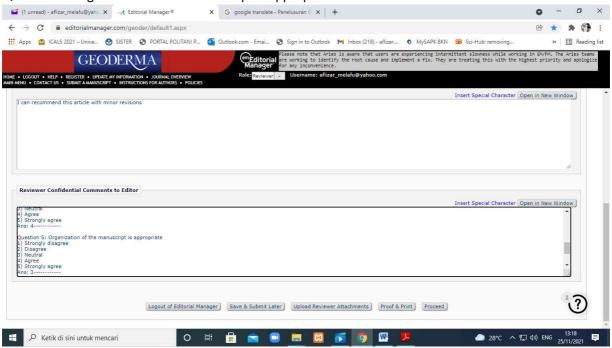
- 12. In the discussion, it is very important to make figure correlation equations between later runoff and the forms of phosphorus in water and also the amount of rainfall and load loss p.
- 13. With the addition of physical and chemical soil analysis data, it is also important to make changes to the highlights and conclusions

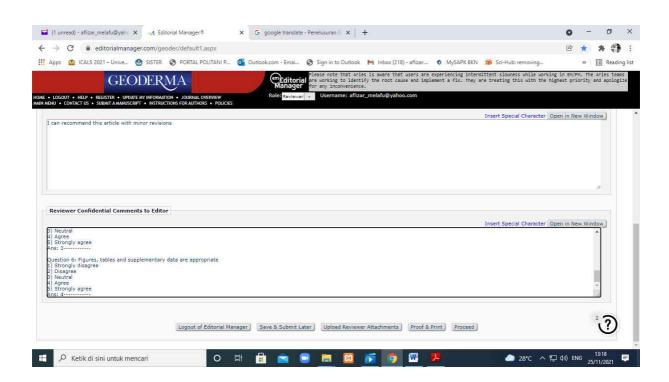


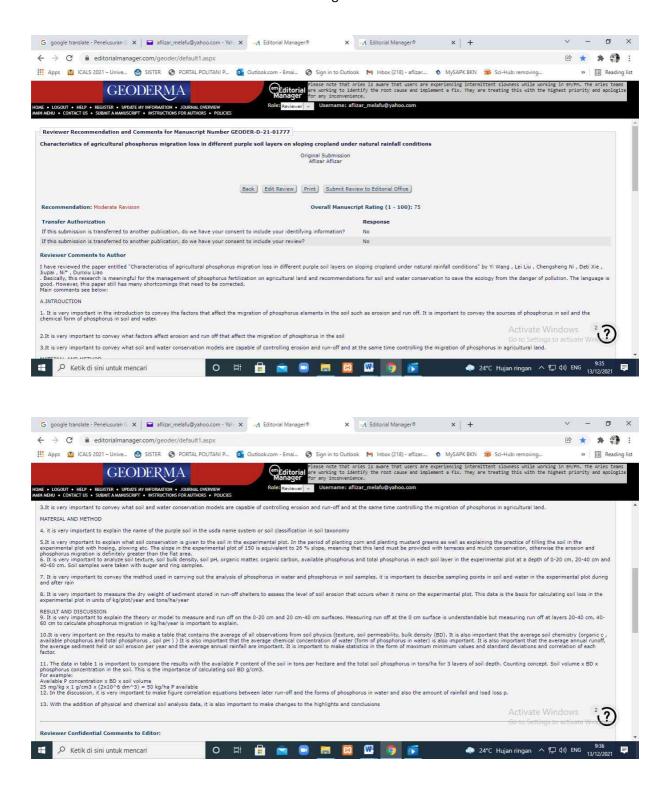


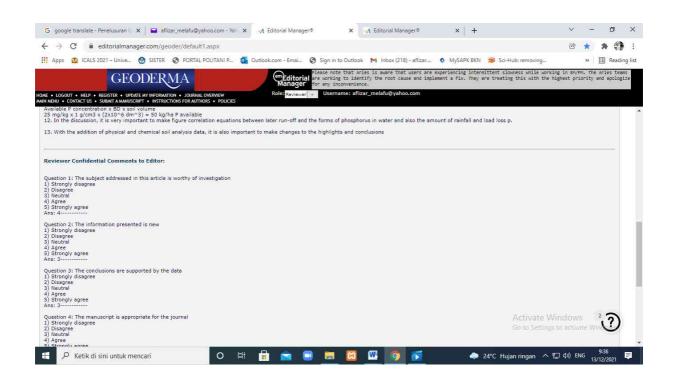


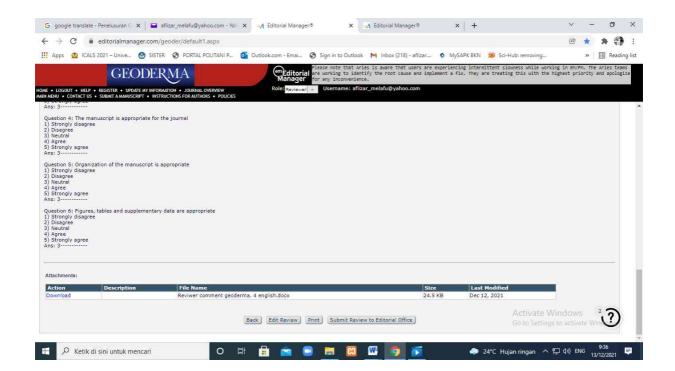
Question 5: Organization of the manuscript is appropriate











Geoderma <em@editorialmanager.com>

To:AflizarAflizar

Mon, Dec 13 at 10:37 AM

Manuscript Number: GEODER-D-21-01777

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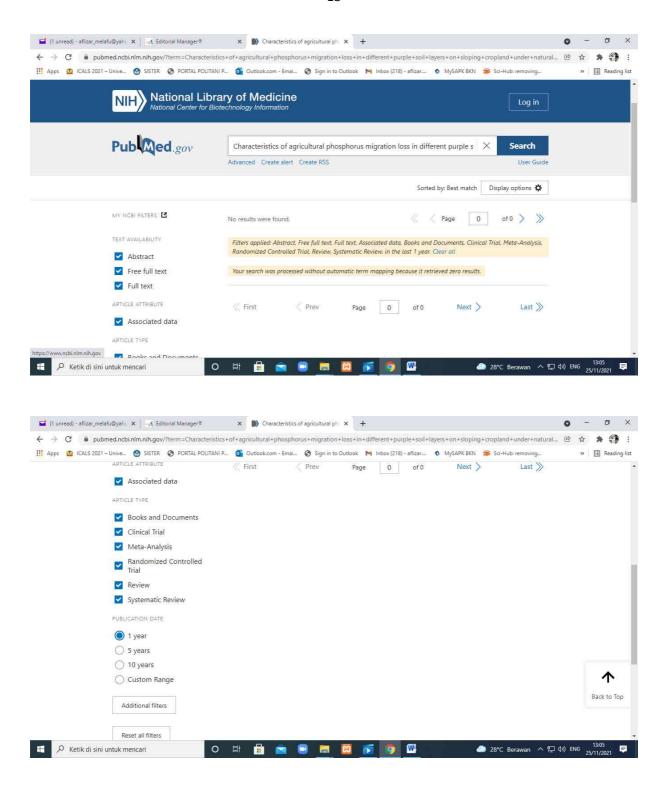
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Characteristics of Material Migration During ... - SAGE Journals

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oleh C Shen · 2019 · Dirujuk 5 kali — We conducted a preliminary study on the **characteristics** of **sloped farmland** in the black **soil** region of Northeast China using **natural rainfall**-runoff plot ...

A Reliable U-trough Runoff Collection Method for Quantifying ...

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Phosphorus Loss through Overland Flow and Interflow ... - MDPI

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oleh L Deng · 2019 · Dirujuk 9 kali — The **soil layer** is thin in the weathered granite region of southeast China, ... rate with time of runoff **under different slope** angles and **rainfall conditions** ...

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24 Agu 2019 — Therefore, artificial **rainfall** simulations were performed to evaluate P **loss** from bare weathered granite slopes with **different slope** angles (5°, ...

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oleh X He · Dirujuk 4 kali — on **different slope** gradients **under** a simulated **rainfall** experiment. ... Keywords: **slope** gradient, **phosphorus** (P) **loss**, **purple soil**, ...

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oleh M Guo \cdot 2019 \cdot Dirujuk 4 kali — In this paper, a field simulated **rainfall** experiment was conducted in a typical small watershed of the Danjiang River to study the nutrient **loss** ...

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https://pubmed.ncbi.nlm.nih.gov > ...

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oleh AK Bouraima · 2016 · Dirujuk 36 kali — **Soil** erosion along with **soil** particles and nutrients **losses** is detrimental to crop production. We carried out a 5-year (2010 to 2014) study to characterize ...

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oleh Y Yao · 2021 · Dirujuk 3 kali — Consequently, **soil** nutrients of **sloping farmland** are **lost** from the ... runoff **loss characteristics under different rainfall** intensities.

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The effect of different crops and slopes on runoff and soil erosion

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oleh J Gao · 2020 · Dirujuk 2 kali — The lack of research on **soil** and water **loss** of **slope farmland** ... **loss under** the action of **rainfall** in **different** crops with **different** slopes ...

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Effect of **natural rainfall** on the **migration characteristics** of runoff and sediment on **purple soil sloping cropland** during **different** planting stages.

The impact of land use and rainfall patterns on the soil loss of ...

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oleh X Meng \cdot 2021 — The coefficients of variation for **soil** erosion modulus **under** heavy and ... the **characteristics** of **soil** erosion **under different conditions**.

Runoff Losses in Nitrogen and Phosphorus From Paddy and ...

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oleh F Zeng \cdot 2021 — Surface runoff is one of the predominant routes for **agricultural** nitrogen (N) and **phosphorus** (P) **losses**, yet their **characteristics** and ...

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oleh B Zhao · Dirujuk 20 kali — Rainfall is the main driver of soil loss in sloped farmlands, ... the soil erosion characteristics under different rainfall intensities have ...

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the Food and **Agriculture** Organization of the United Nations (FAO), took the ... Figure 4.4 | **Soil** carbon and nitrogen **under different** land cover **types**.

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oleh XW Song · 2017 · Dirujuk 28 kali — karst, nitrogen, simulated **rainfall**, subsurface runoff, surface runoff ... sion, and nutrient **loss under** controlled **conditions** (e.g., ...

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In this study, the artificial runoff plot was used to observe the **rainfall** runoff and **phosphorus loss** concentration in **purple soil slope farmland**.

Management of tropical sandy soils for sustainable agriculture

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Dirujuk 2 kali — Changes in **soil** chemical **properties under** two contrasting ... **loss** and fertility degradation **under different agricultural land** uses in.

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The output **characteristics** of pollutants **under different** land use **types** are very ... During **natural rainfall**, nutrients in **soil** and crop residues **migrate** to ...

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erosion—loss of material from the surface layer of soil by the action of water or wind. gleization—reduction of iron under waterlogged soil conditions ...

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oleh L Xia · 2013 · Dirujuk 38 kali — Reductions of **soil** erosion, nitrogen and **phosphorus losses**. The **loss** of nitrogen and **phosphorus** from arable **slope** land threatens the aquatic ...

Contrasting physical controls on phosphorus transport ... - HESS

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oleh M Fresne · 2020 — facilitated transport to shallow GW using finer scale **soil properties** surveys. ... but it can also be **lost** from **agricultural land** thereby contributing to ...

Review of phosphorus pollution in Anglian River Basin District

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Natural background sources of P include atmospheric deposition, **soil** ... Table 3.3 **Losses** of P from **different agricultural** sources (Antony et al., 2009).

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If **soil** formation processes that transform **soil profile characteristics** ... **Under conditions** of high **rainfall** and high temperature, **soils** formed is_____.

slope erosion control: Topics by WorldWideScience.org

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The aim of this study was to quantify **losses** of **soil** (SL and water (WL in a HumicCambisol in a field experiment **under natural rainfall conditions** from July ...

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8.1.1 **Types** of impacts associated with **agricultural land** use changes. ... **sloping** land risk of increased **loss** of **soil** are much higher.

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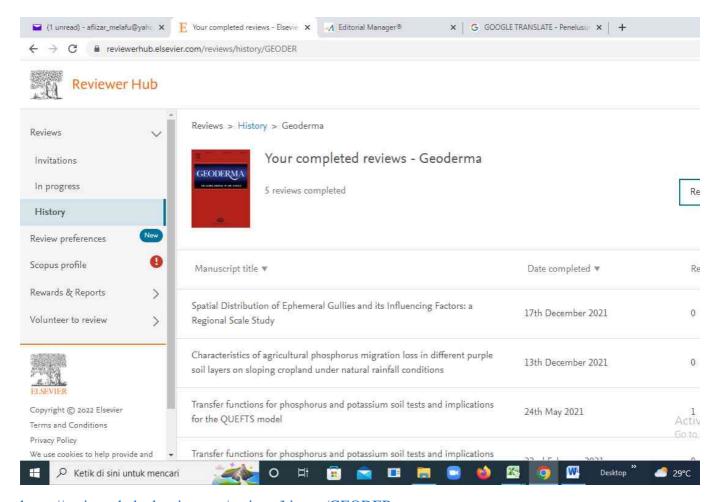
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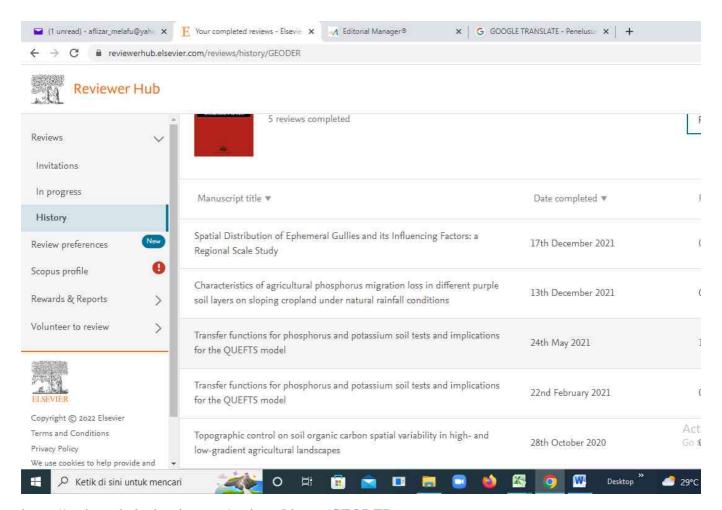
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