

[jrk] Journal Registration

Dr. Diana Vanda Wellia <jurnal.risetkimia@gmail.com>
To Ibu Ana Hidayati Mukaromah

You have now been registered as a user with Jurnal Riset Kimia. We have included your username and password in this email, which are needed for all work with this journal through its website. At any point, you can ask to be removed from the journal's list of users by contacting me.

Username: anahidayat
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Thank you,
Dr. Diana Vanda Wellia

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J Jurnal Riset KIMIA UNAND <jurnalariskimia@mail.unand.ac.id>

To Ibu Ana Hidayati Mukaromah,

Kami ingin menginformasikan bahwa manuscript Ibu saat ini masih berstatus awaiting assignment.

Perlu Kami ingatkan bahwa saat ini jumlah submission yang masuk pada sistem Jurnal Riset Kimia cukup banyak dan semua submission tersebut harus melalui tahap awal yaitu editorial assessment terlebih dahulu. Oleh sebab itu, Kami memohon kesabaran Ibu untuk dapat menunggu proses dari tahap awal tersebut.

Atas perhatian dan kerja sama Ibu, Kami ucapkan terima kasih.

Salam hormat,

Dr. Diana Vanda Wellia
Editor in Chief
Jurnal Riset Kimia
<https://jrk.unika.unand.ac.id>
Email: jurnalariskimia@sci.unand.ac.id

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[jrk] REDUCTION OF MANGAN (II) IN THE WATER USING MEMBRANE OF MORINGA SEEDS POWDER-TIO2 WITH VARIATION OF MASS MORINGA SEEDS POWDER TO TIO2

Editor in Chief Jurnal Riset Kimia <jurnal.risetkimia@gmail.com>
To Ibu Ana Hidayati Mukaromah

Dear Author,

Please complete your metadata first so we can continue to process your manuscript. Thank you.

Best regards,

Dr. Diana Vanda Wellia
Editor in Chief
Jurnal Riset Kimia
email: jurnalariskimia@sci.unand.ac.id
jurnal.risetkimia@gmail.com

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J Jurnal Riset KIMIA UNAND <jurnal.risetkimia@sci.unand.ac.id> To me Star Print Forward Details

Hi, Sep 30, 2022, 8:21AM

Dear Ana Hidayati Mukaromah,

Your payment of Article Processing Charge (APC) of Accepted article #ID-512 has been received successfully by Editorial Office of jurnal Riset Kimia.

Editorial Office will send you galley proof PDF once the layouting is finished.

Thank you for your contributions.

Best regards.

Dr Diana Vanda Wellis
Editor in Chief
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Hi, Sep 30, 2022, 12:47PM

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Link: <http://jrk.unand.ac.id/index.php/authorsDashboard/submission/512>

Dr. Diana Vanda Wellis

Editorial Team Jurnal Riset Kimia <http://jrk.unand.ac.id>

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Tue, Oct 4, 2022, 11:18AM

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There is new activity in the discussion titled "To Editor Jurnal Riset Kimia" regarding the submission "Decreasing of Mangan (II) in The Water Using Membrane of Moringa Seed Powder-TiO2 with Variation of Mass TiO2".

Link: <http://jrk.unand.ac.id/index.php/authorsDashboard/submission/512>

Dr. Diana Vanda Wellis

Editorial Team Jurnal Riset Kimia <http://jrk.unand.ac.id>

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[Final Reminder] Article in Review #JurnalRisetKimia-512 Details Reply Forward Print More

J Jurnal Riset KIMIA UNAND jurnalrisetkimia@unand.ac.id 1 message Mon, Oct 10, 2022, 4:45 PM Star Move

Dear Ana Hidayati Mukaromah,

We have reached a decision regarding your submission to Jurnal Riset Kimia, "REDUCTION OF MANGAN (II) IN THE WATER USING MEMBRANE OF MORINGA SEEDS POWDER-TiO₂ WITH VARIATION OF MASS MORINGA SEEDS POWDER TO TiO₂" which you submitted to Jurnal Riset Kimia.

Our decision is: **Revisions Required**. As shown in detail below, substantial revisions are required to improve the manuscript suitable for publication in Jurnal Riset Kimia. Please make revisions according to the comments and suggestions that given below.

Editor comments:

1. All figure should be presented in the proper size. Please make sure to use the same font and size
2. Please complete the purity and factory for all of the chemicals that you state in your manuscript.

Reviewer comments:

Reviewer 1

Introduction:
it will be more informative and precise if the authors also write why the materials should be prepared in the membrane.

Methods :
1. It is not clear the type of TiO₂ that has been used (particle size, phase)
2. Need information about the membranes thickness, pores
3. variation of time of irradiation of UV light

Results and discussion :
1. notation in Figures 3, between (b) and (c) are probably swapped.
2. figure 5 does not contribute significantly for the discussion
3. Better to show also the decrease of Mn(II) concentration for only MSP and TiO₂
4. It is not clear which is the more dominant process, absorption of Mn(II) or photocatalytic degradation by TiO₂. Need to be clarified
5. Better to show the primer data for EDX, FTIR and UV-VIS absorption characterization.
6. It is not clear the purpose of the isostructural structure of amino acids provided by the authors Preparation of MSP at high temperature and for a long time

Major comments:
Need to be revised [major]. Please follow the comments/suggestions

Reviewer 2

Manuscript ditulis dalam berbahasa Inggris namun banyak sekali kalimat yang tidak tepat dengan makna yang diinginkan. Judul Reduction of Mangan (II) tapi dalam abstrak tujuannya mengukur kadar Mn(II) tidak sesuai dengan judulnya. Dalam judul Variation of Mass Moringa Seeds tapi dalam prosedur yang diulas adalah jumlah TiO₂ nya. Penggunaan TiO₂ diharapkan mampu menurunkan kadar Mn(II) tapi peningkatan jumlah TiO₂ malah hasilnya berseberangan dan juga tidak ada kontrol tanpa TiO₂ apakah kadar Mn(II) berkurang dengan pemberian TiO₂? Author tidak menjelaskan TiO₂ yang digunakan jenis apa? Berstruktur anatase atau rutile, sehingga bisa diketahui pemberian UV TiO₂ dapat berkontribusi dalam reduksi Mn(II). Dalam teks juga ada pembahasan yang tidak berkorelasi dengan hasil yang dipaparkan. Berdasarkan beberapa komentar lagi dibawah maka manuscript ini memerlukan perbaikan lagi.

Beberapa komentar lainnya

- Dalam abstrak tertulis "The purpose of this study was to determine the levels of Mn (II) ions in water before and after passing through a 20:1 Moringa Seeds Powder (MSP)-TiO₂. Tujuan ini tidak sesuai dengan judul Reduction of Mn(II). Mengentukan kadar Mn(II) adalah cara untuk mengetahui jumlah pereduksiannya Mn(II).
- Dalam abstrak "measure the percentage decrease in the level of Mn (II) ions in water using MSP-TiO₂ membrane". Apakah mengukur pengurangan Mn(II) dengan membran MSP-TiO₂? Kalimatnya tidak tepat
- Pada pendahuluan "the average content of Mn (II) ions is 1.02±1.33 mg/L", apakah yakni dengan ini? nya lebih besar ?
- Pada pendahuluan dituliskan "TiO₂ or membrane of TiO₂ photocatalyst is used to reduce the levels of Mn (II) ions in solution in the presence of light, because TiO₂ photocatalysts can produce e- (e⁻) and holes (h⁺) or •OH radicals easily". Bagaimana adanya TiO₂ dapat menurunkan kadar Mn(II), apakah direduksinya menjadi Mn or bentuk lainnya?
- This study the mass variation of TiO₂ with a constant MSP mass was used, tetapi pada judul yang diutarakan MSP?
- Penulisan formula molekul perlu diperbaiki TiO₂ seharusnya TiO₂ dan banyak lagi yang lainnya tidak sesuai dengan kaidah.
- TiO₂ yang digunakan dalam metodologi harus jelas jenisnya apa? Anatase atau rutile. Karena terkait dengan pemberian sinar UV.
- 50,0 mL samples added HNO₃ 1:1 and 5 mL of AgNO₃ 0.1 N in erlenmeyer and was heated to a boil, then added K2S2O₈ powder and heating was continued for 5 minutes and transferred to a 50 mL volumetric flask and homogenized. Apa makna sampel diantara Mn(II)?

- Dalam hasil penjelasan Gambar 1 "According to Bertus et al. [23], the amino acids contained in the protein of MSP bind to each other through peptide bonds between the carboxylic and amine groups. In solution, amino acids can release H⁺ ions from their carboxylic groups, while amine groups will accept H⁺ ions, so that both groups will be charged (Figure 2). If the amino acids are in alkaline water, the amino acids will be in structure I, because high OH concentrations are able to bind H⁺ ions present in the -NH3⁺ group. On the other hand, if it is in an acidic area, a high concentration of H⁺ ions can bind -COO⁻ ions, so that the -COOH group is formed, as in structure II". Kalimat-kalimat ini tidak berkorelasi dengan hasil "Based on Figure 1, the percentage of decreased concentration Mn (II) ions with MSP/TiO₂ membrane from 20.1 to 20.9 are from 34.0±0.40 to 19.66±0.43 %".
- Moringa seeds have a functional group (active site) that can bind/adsorb metal ions. The results of functional group analysis using Fourier Transform Infra Red (FTIR), that the MSP powder biosorbent has 5 main functional groups, namely carbonyl groups (C=O), hydroxyl (OH), amides (NH), alkenes (C=C), and Nitro (NO₂) which can be charged and able to absorb metal [23]. The fact that MSP is powder particles that have gone through a carbonation process, and new pores are formed, so they have a smaller particle size and a larger surface area, Kalimat satu paragraph ini berhubungan (menjelaskan) dengan hasil yang mana?
- This decrease was due to the influence of TiO₂ synthesis in MSP. Apakah ada proses sintesis dalam penelitian ini.
- Dalam teks "which resulted in an increase in structural symmetry of the membrane" apa maksud symmetry of the membrane?
- The contact between TiO₂ and ultraviolet light against MSP powder is not maximal because TiO₂ not only coats the surface of the MSP, but the open gap (pores) in the MSP is also covered by TiO₂. TiO₂, which covers the open gap of the MSP, can reduce contact between ultraviolet light and TiO₂. Apakah jenis TiO₂ yang digunakan sehingga tidak ada peran UV terhadap TiO₂?
- Pada halaman 7 "The decrease was due to the influence of TiO₂ synthesis in MSP which resulted in an increase in the symmetrical membrane structure with a low molecular mass so as to reduce the pore size and reduce adsorption in water" apa maksud decrease dan hubungannya dengan XRD?
- Pada conclusion "Moringa Seeds Powder (MSP)-TiO₂ membrane has the potential to reduce heavy metal ion solution, especially manganese". Apakah maksudnya mereduksi Mn(II) jadi Mn? atau mengurangi kadar Mn(II)?

Reviewer 3

Introduction :

Please as the state of the art of this research. See also the comments inside the manuscript

Results and discussion :

Major revision for the discussion:

1. Please revise the discussion structure. Please show and discuss the result of materials characterizations and the test result. And you can explain the test result from the characterizations result. Please do it, so your manuscript can be clearer and suitable to publish.
2. Please see more comments inside the manuscript.

Minor comments :

Please check the grammar, typo errors and spelling.

Major comments :

Please see the comments inside the manuscript.

The revised manuscript has to be completed with the responses of all the editor and reviewer comments, point by point, in table form at the beginning of the page of the revised manuscript. It is also required to highlight the revised parts with different color of letters.

Please edit your submission and make the necessary changes by logging into the editorial manager at: <http://irk.fimipa.unand.ac.id/index.php/irk/login>

and clicking on your status "in review". You can upload your revised manuscript in the "editor decision" section by clicking "upload author version".

We look forward to receiving the revised version of your manuscript on or before 31 October 2022.

Please be noted that you have up to 2 (two) weeks from now to revise your manuscript, unless your manuscript will be considered as a new submitted manuscript.

Kind regards,

Dr. Diana Vanda Wellia

Editor in Chief

Jurnal Riset Kimia

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Email: jurnalrisetkimia@sci.unand.ac.id

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Editor Jurnal Riset Kimia jurnalrisetkimia@gmail.com to me Mon, Nov 28, 2022, 11:48 AM

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Link: <http://dx.doi.org/10.26437/jurnalrisetkimia.v1i1.512>

Dr. Diana Vanda Welta Editorial Team Jurnal Riset Kimia <http://jrk.unand.ac.id>

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Acceptance of your manuscript #JurnalRisetKimia-512 [Email](#) > [Inbox](#)

Jurnal Riset KIMIA UNAND jurnalrisetkimia@unand.ac.id to me Sat, Dec 10, 2022, 1:23 PM Dec 17, 2022, 1:23PM

Dear Ana Hidayati Mukaramah,

Thank you for your submission of "Decreasing of Mangan (II) In The Water Using Membrane Of Moringa Seed Powder-TiO₂ With Variation of Mass TiO₂" and the subsequent review. We are pleased to inform you that the above-mentioned manuscript has been accepted for publication in **Jurnal Riset Kimia** without the need for further peer review.

Thank you for your valuable contribution to the journal.

Best regards,

Ana Hidayati ana_hidayati@unimus.ac.id to Jurnal Sun, Dec 11, 2022, 10:32 PM

Thank you for the manuscript to be accepted for publication in **Jurnal Riset Kimia-512**.
Ana Hidayati Mukaramah

Ana Hidayati ana_hidayati@unimus.ac.id to Jurnal Thu, Mar 16, 5:35PM

I am waiting for my article titled "Decreasing of Mangan (II) in The Water Using Membrane of Moringa Seed Powder-TiO₂ with Variation of Mass TiO₂"... which is accepted in the Adals chemistry journal, which will be published in March 2023.
Thank you very much.
Ana Hidayati Mukaramah (**Jurnal Riset Kimia-512**)

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Tue, Mar 21, 1:58PM

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Dr. Diana Vanda Wella

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Thu, Apr 6, 6:32PM (6 days ago)

ACADEMIA

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