

Proses Review artikel: Effectiveness of polyethylene glycol-coated silica on ions adsorption in industrial wastewater

18 Maret 2023: Submit

7/31/24, 4:18 AM

Universitas Ahmad Dahlan Yogyakarta Mail - [p] Submission Acknowledgement

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maryudi maryudi <maryudi@che.uad.ac.id>

[p] Submission Acknowledgement

1 message

dr hab inż. Regina Jeziórska <polimery@ichp.lukasiewicz.gov.pl>
To: Maryudi Maryudi <maryudi@che.uad.ac.id>

Sat, Mar 18, 2023 at 10:55 AM

Maryudi Maryudi:

Thank you for submitting the manuscript, "Effectiveness of polyethylene glycol (PEG)-coated silica on adsorption of cation and anion in industrial wastewater" to Polimery. With the online journal management system that we are using, you will be able to track its progress through the editorial process by logging in to the journal web site:

Submission URL: <https://polimery.ichp.vot.pl/index.php/p/authorDashboard/submission/2297>
Username: maryudi

If you have any questions, please contact me. Thank you for considering this journal as a venue for your work.

dr hab inż. Regina Jeziórska

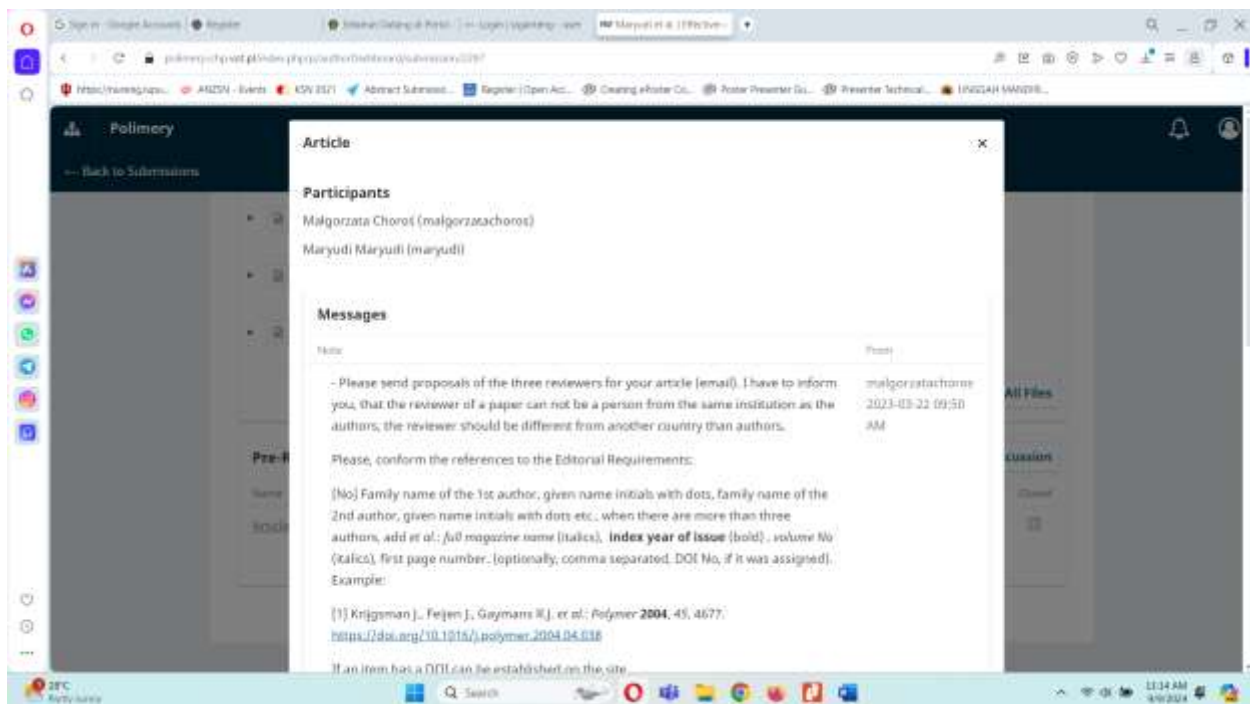
[Polimery](#)

The screenshot shows the author dashboard for submission 2297. The page title is "2297 / Maryudi et al. / Effectiveness of polyethylene glycol-coated silica on ions adsorption in industrial wastewater". The interface includes a "Workflow" section with tabs for "Submission", "Review", "Copyediting", and "Production". The "Submission" tab is active, displaying a table of "Submission Files".

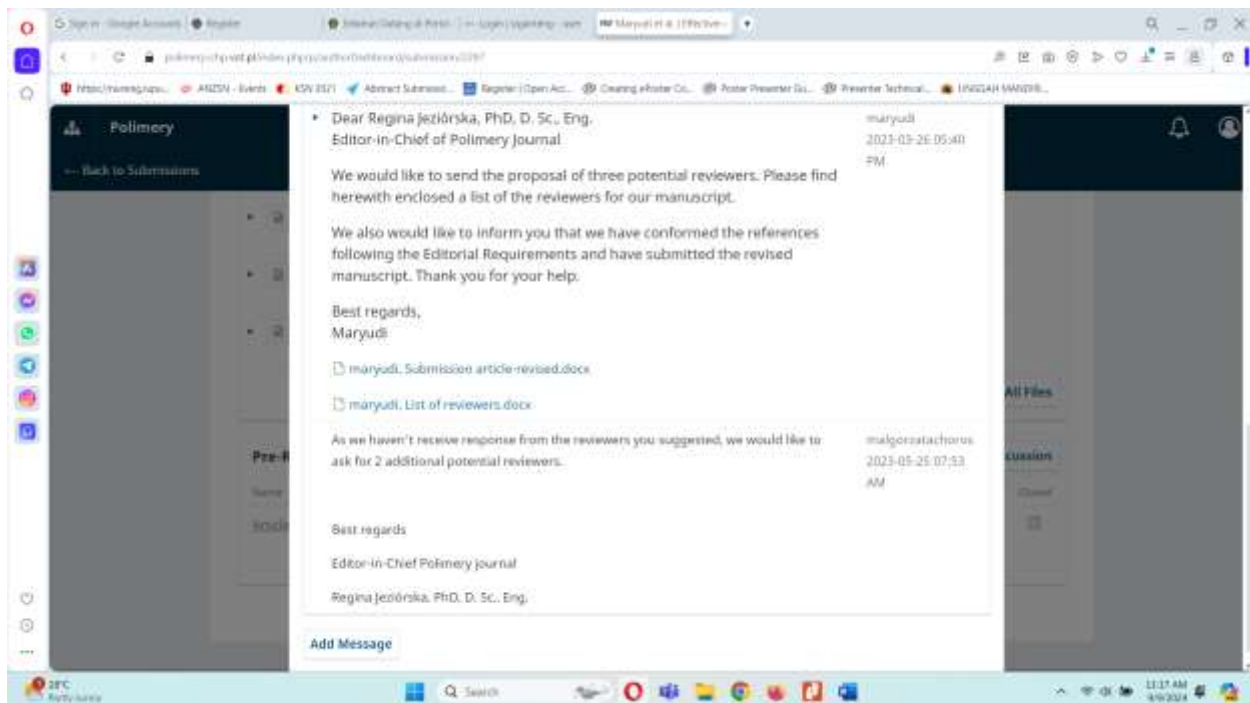
File ID	File Name	Date	Type
447-1	maryudi, Submission statement.docx	March 18, 2023	Other
448-1	maryudi, Submission article.docx	March 18, 2023	Article Text
467-1	malgorzatachomo, article.docx	April 3, 2023	Article Text
468-1	malgorzatachomo, Review form.docx	April 3, 2023	Other

At the bottom right of the table, there is a "Download All Files" button. The browser's address bar shows the URL: <https://polimery.ichp.vot.pl/index.php/p/authorDashboard/submission/2297>. The system language is set to English, and the user is logged in as "maryudi".

22 Maret 2023: pre-review



26 Maret 2023: submit perbaikan setelah pre-review



29-05-2023: review

7/31/24, 4:20 AM

Universitas Ahmad Dahlan Yogyakarta Mail - [p] Editor Decision

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maryudi maryudi <maryudi@che.uad.ac.id>

[p] Editor Decision

1 message

no-reply@ichp.vot.pl <no-reply@ichp.vot.pl>

Mon, May 29, 2023 at 12:44 PM

Reply-To: Malgorzata Choroś <malgorzata.choros@ichp.lukasiewicz.gov.pl>

To: Maryudi Maryudi <maryudi@che.uad.ac.id>, Aster Rahayu <aster.rahayu@che.uad.ac.id>, Dhias Cahya Hakika <dhias.hakika@che.uad.ac.id>

Dear Maryudi Maryudi, Aster Rahayu, Dhias Cahya Hakika:

We have reached a decision regarding your submission to Polimery, "Effectiveness of polyethylene glycol coated silica on adsorption of cation and anion in industrial wastewater".

Our decision is: Revisions Required

Notifications



[p] Editor Decision

2023-05-29 07:44 AM

Dear Maryudi Maryudi, Aster Rahayu, Dhias Cahya Hakika:

We have reached a decision regarding your submission to Polimery, "Effectiveness of polyethylene glycol coated silica on adsorption of cation and anion in industrial wastewater".

Our decision is: Revisions Required

10 Juni 2023: submit revisi

The screenshot displays a user interface for a journal submission system. At the top, there is a dark blue header with the text 'Publishers', 'Tasks' (with a notification icon), 'English', 'View Site', and a user profile icon labeled 'maryad'. Below the header, the main content area is divided into three sections:

- Notifications:** A single notification from 'Jed Editor, Deskcom' dated '2023-05-29 07:44 AM'.
- Reviewer's Attachments:** A section with a search icon and the text 'Search'. It contains one entry: a document icon, '4827-1 ...1257-Other-4678-1-4-20230403.doc', and the date 'May 25, 2023'.
- Revisions:** A section with search and upload file icons. It contains two entries:
 - Entry 1: Document icon, '4827-1 Article Text, Revised Manuscript.docx', date 'June 10, 2023', and a link to 'Article Text'.
 - Entry 2: Document icon, '4827-1 Other, Response to Reviewer.doc', date 'June 10, 2023', and the text 'Other'.

P O L I M E R Y

Title of the article: **Effectiveness of polyethylene glycol coated silica on adsorption of cation and anion in industrial wastewater**

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

PART 1. We kindly ask you to assess whether the article reviewed fulfils the editorial requirements concerning the publications issued in "Polimery":

	Reviewer's comment	Author's comment (<i>if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here</i>)
Does the subject of an article agree with the journal profile?	yes	Thank you for the comment.
Does the title agree with the subject of paper?	yes	Thank you for the comment.
Is the division into: a) literature review, b) experimental part, c) results and their discussion, d) recapitulation of the results, clearly kept?	yes	Thank you for the comment.
Does the work present an original and coherent research conception of cognitive and/or applied character?	yes	Thank you for the comment.
Is the content of work even partially replicated in other publications?	no	Thank you for the comment.
In case of reviews: whether the subject proposed presents the recent development in research directions of polymer science ?	-	

P O L I M E R Y

Are the sources from last 5 years cited in the literature review?	yes	Thank you for the comment.
Was the aim of work clearly formulated?	yes	Thank you for the comment.
Was the short characteristics of raw materials and equipment used (with producers given) presented?	No The authors did not specify the manufacturers of raw materials used in the studies. The article does not mention the manufacturers of the Spectrophotometer UV-Vis and Atomic Absorption Spectrophotometer	Thank you for the comment and suggestion. We have added details of the brands and manufacturers for raw materials and all instruments used in the study. (Highlighted in yellow in the manuscript)
Does experimental part cover all the operations and methods mentioned in the further text?	yes	Thank you for the comment.
Does the discussion of results take into consideration all the figures and tables presented?	yes	Thank you for the comment.
Linguistic correctness in case of the articles in English language	English should be improved	Thank you for the comment and suggestion. We have done some revisions and corrections for the grammatical error and mistake in the manuscript.
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i> no	
Are there competing interest issues in this manuscript?	no	Thank you for the comment.
If plagiarism is suspected, <u>please provide related proofs or web links</u>	-	

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PART 2. Additional comments for the review

	Reviewer's comment	Author's comment (<i>if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here</i>)
Compulsory REVISION comments	Only the FTIR spectrum of PEG-coated silica is contaminated in the article. The spectrum of pure silica was not included. As a reference sample, the authors used a literature reference. In my opinion that is insufficient.	Thank you for the comment and suggestion. We have replaced Figure 1 to a new Figure that also shows the FTIR spectrum of pure silica used in this study. We have also mentioned the wavelength data of pure silica in the Table 1 and added some sentences in the discussion to describe the wavelength. In the last column in Table 1, we put data from reference [18] to show that the wavelength numbers of compounds in PEG-coated silica were in accordance with previous research. (Highlighted in yellow in the manuscript)
Minor REVISION comments	Please complete the manufacturers of the equipment (UV-Vis spectrophotometer, atomic absorption spectrophotometer) and the raw materials used.	Thank you for the comment and suggestion. We have added details of the brands and manufacturers for each raw materials and all instruments used in the study. (Highlighted in yellow in the manuscript)
Optional/General comments		

PART 3. Objective evaluation

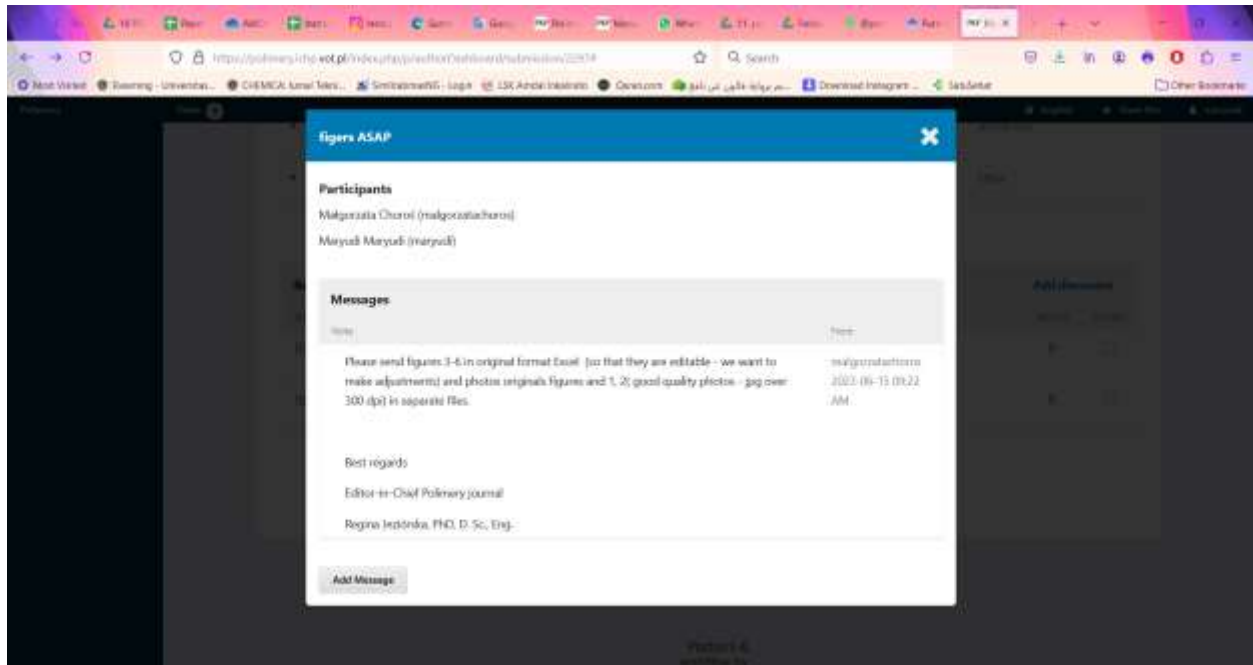
Give OVERALL MARKS you want to give to this manuscript
(Highest: 10 Lowest: 0)

You are asked to end with one of the following statements:

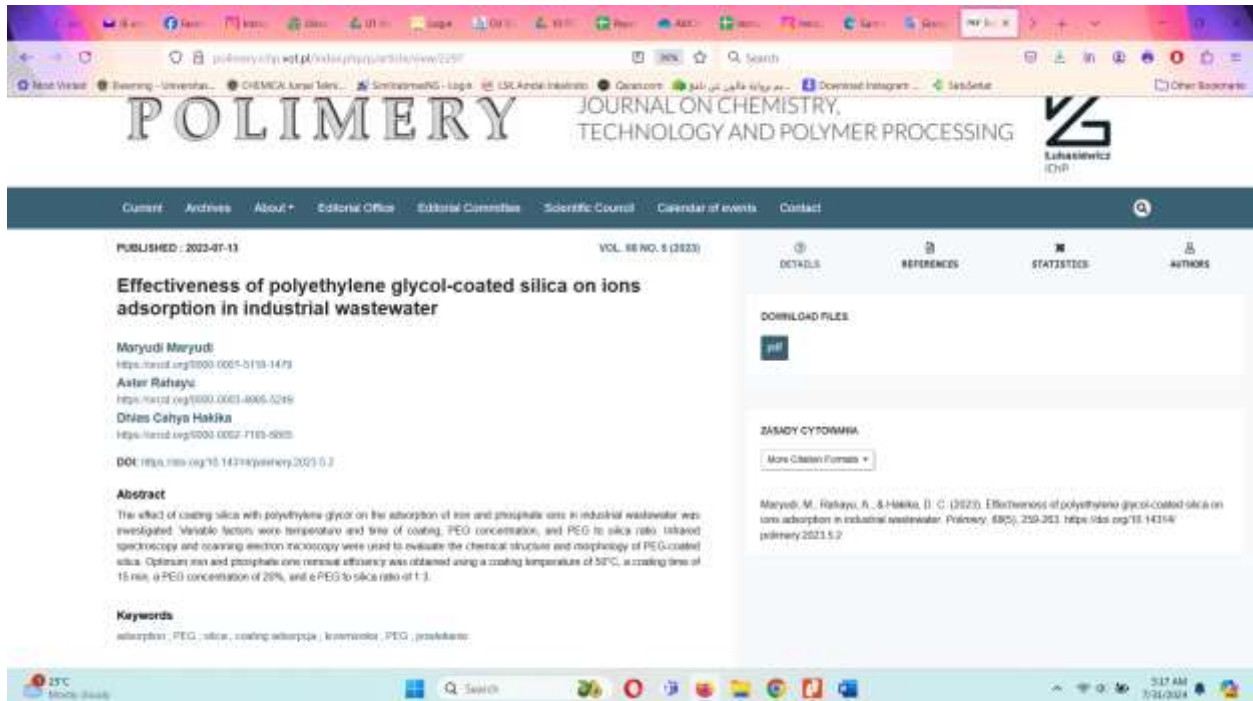
		MARKS of this manuscript
A)	The article needs the editorial corrections (8-10)	
B)	The article needs author's corrections and supplements (6-7)	6
C)	The article should be returned to author and after correction sent again to reviewer (5-4)	
D)	The article is not recommended to publish even after eventual author's corrections (3-0)	

In case of C) or D) please give short comments and reasons.

15 Juni 2023: permintaan revisi tambahan



13 Juli 2023: Published



Effectiveness of polyethylene glycol-coated silica on ions adsorption in industrial wastewater

POLIMERY 2023, 68, nr 5 259

Effectiveness of polyethylene glycol-coated silica on ions adsorption in industrial wastewater

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DOI: <https://doi.org/10.14314/polimery.2023.52>

Abstract: The effect of coating silica with polyethylene glycol on the adsorption of iron and phosphate ions in industrial wastewater was investigated. Variable factors were temperature and time of coating, PEG concentration, and PEG to silica ratio. Infrared spectroscopy and scanning electron microscopy were used to evaluate the chemical structure and morphology of PEG-coated silica. Optimum iron and phosphate ions removal efficiency was obtained using a coating temperature of 50°C, a coating time of 15 min, a PEG concentration of 20%, and a PEG to silica ratio of 1:5.

Keywords: adsorption, silica, PEG, coating.

Wpływ powlekania krzemionki glikolem polietylenowym na adsorpcję jonów ze ścieków przemysłowych

Abstrakt: Zbadano wpływ powlekania krzemionki glikolem polietylenowym na adsorpcję jonów żelaza i fosforanów ze ścieków przemysłowych. Czynniki zmiennymi były temperatura i czas powlekania, stężenie PEG oraz stosunek PEG do krzemionki. Do oceny budowy chemicznej i struktury krzemionki powlekaną PEG stosowano spektroskopię w podczerwieni i skaningową mikroskopię elektronową. Optymalną skuteczność uszczenia jonów żelaza i fosforanów uzyskano stosując temperaturę powlekania 50°C, czas powlekania 15 minut, stężenie PEG 20% oraz stosunek PEG do krzemionki 1:5.