

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

UNIVERSITAS
AHMAD DAHLAN

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 a web browser window with the URL <https://polimery.ichp.vot.pl/index.php/p/authorDashboard/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 navigation menu with "Workflow" and "Publication" tabs. Under "Publication", there are sub-tabs for "Submission", "Review", "Copyediting", and "Production". The "Submission" tab is active, showing a table of "Submission Files".

File ID	File Name	Date	Type
4647-1	maryudi, Submission statement.docx	March 18, 2023	Other
4648-1	maryudi, Submission article.docx	March 18, 2023	Article Text
4675-1	malgorzatachoros, article.docx	April 3, 2023	Article Text
4676-1	malgorzatachoros, Review form.doc	April 3, 2023	Other

At the bottom of the table, there is a "Download All Files" button. The browser's taskbar at the bottom shows the system tray with a temperature of 25°C, a search bar, and the date and time: 4:12 AM, 7/31/2024.

29-05-2023: review

7/31/24, 4:20 AM

Universitas Ahmad Dahlan Yogyakarta Mail - [p] Editor Decision

UNIVERSITAS
AHMAD DAHLAN

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: Małgorzata 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

Polimery Tasks 0 English View Site maryudi

Notifications

[\[p\] Editor Decision](#) 2023-05-29 07:44 AM

Reviewer's Attachments [Search](#)

4827-1	2297-Other-4678-1-4-20230403.doc	May 25, 2023
--------	----------------------------------	--------------

Revisions [Search](#) [Upload File](#)

4872-1	Article Text, Revised Manuscript.docx	June 10, 2023	Article Text
4873-1	Other, Response to Reviewers.doc	June 10, 2023	Other

15 Juni 2023: permintaan revisi tambahan

10 PE: Paper AMC Instru Instas Summ Goox Polim Maryudi What: 11. ps Folds @per Publ: PNP M: X

https://polimery.ichp.vot.pl/index.php/p/authorDashboard/submission/2297#

figers ASAP

Participants

Malgorzata Chorof (malgorzatachoros)
Maryudi Maryudi (maryudi)

Messages

Note	From
Please send figures 3-6 in original format Excel (so that they are editable - we want to make adjustments) and photos originals figures and 1, 2(good quality photos - jpg over 300 dpi) in separate files.	malgorzatachoros 2023-06-15 09:22 AM
Best regards	
Editor-in-Chief Polimery journal	
Regina Jeziońska, PhD, D. Sc., Eng.	

[Add Message](#)

Platform & workflow by

13 Juli 2023: Published

Browser: <https://polimery.ichp.vot.pl/index.php/p/issue/view/241>

Navigation: Current, Archives, About, Editorial Office, Editorial Committee, Scientific Council, Calendar of events, Contact

Vol. 68 No. 5 (2023)
 Contents Issue 68(5)2023 (Jazek Polak)
 Published: 2023-05-09

Articles

Morphology and selected properties of NR/BR/CNT nanocomposites effect of ethanol-assisted mixing
 Juzheng Zhang, Zhang Gu, Chao Mang, Jianta Wang, Jinyong Sun
 DOI: <https://doi.org/10.14314/polimery.2023.5.1>

Effectiveness of polyethylene glycol-coated silica on ions adsorption in industrial wastewater
 Maryudi Maryudi, Aster Rahayu, Dhias Cahya Hakika
 DOI: <https://doi.org/10.14314/polimery.2023.5.2>

Modification of photosensitive resin with fumed silica
 Jia Zhao, Tao Song, Wu Chu, Yingying Wang, Lunan Bi, Zhuzhen Han, Ling Li
 DOI: <https://doi.org/10.14314/polimery.2023.5.3>

Analysis of shrinkage stresses arising during polymerization of orthodontic adhesive systems

System tray: 25°C Mostly cloudy, 5:23 AM 7/31/2024

Browser: polimery.ichp.vot.pl/index.php/p/article/view/2297

Navigation: Current, Archives, About, Editorial Office, Editorial Committee, Scientific Council, Calendar of events, Contact

POLIMERY JOURNAL ON CHEMISTRY, TECHNOLOGY AND POLYMER PROCESSING
 Lukaszewicz IChP

PUBLISHED : 2023-07-13 VOL. 68 NO. 5 (2023)

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

Maryudi Maryudi
<https://orcid.org/0000-0001-5118-1479>
 Aster Rahayu
<https://orcid.org/0000-0003-4995-5249>
 Dhias Cahya Hakika
<https://orcid.org/0000-0002-7185-6805>
 DOI: <https://doi.org/10.14314/polimery.2023.5.2>

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 1:3.

Keywords
 adsorption ; PEG ; silica ; coating adsorpcja ; krzemionka ; PEG ; powlekanie

DETAILS, REFERENCES, STATISTICS, AUTHORS

DOWNLOAD FILES
[pdf](#)

ZASADY CYTOWANIA
[More Citation Formats](#)

Maryudi, M., Rahayu, A., & Hakika, D. C. (2023). Effectiveness of polyethylene glycol-coated silica on ions adsorption in industrial wastewater. *Polimery*, 68(5), 259-263. <https://doi.org/10.14314/polimery.2023.5.2>

System tray: 25°C Mostly cloudy, 5:17 AM 7/31/2024

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

Maryudi Maryudi^{1*} (ORCID ID: 0000-0001-5118-1479), Aster Rahayu¹ (0000-0003-4995-5249),
Dhias Cahya Hakika¹ (0000-0002-7185-6805)
DOI: <https://doi.org/10.14314/polimery.2023.5.2>

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 1:3.

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 elektryczną. Optymalną skuteczność usuwania jonów żelaza i fosforanów uzyskano stosując temperaturę powlekania 50°C, czas powlekania 15 minut, stężenia PEG 20% oraz stosunek PEG do krzemionki 1:3.