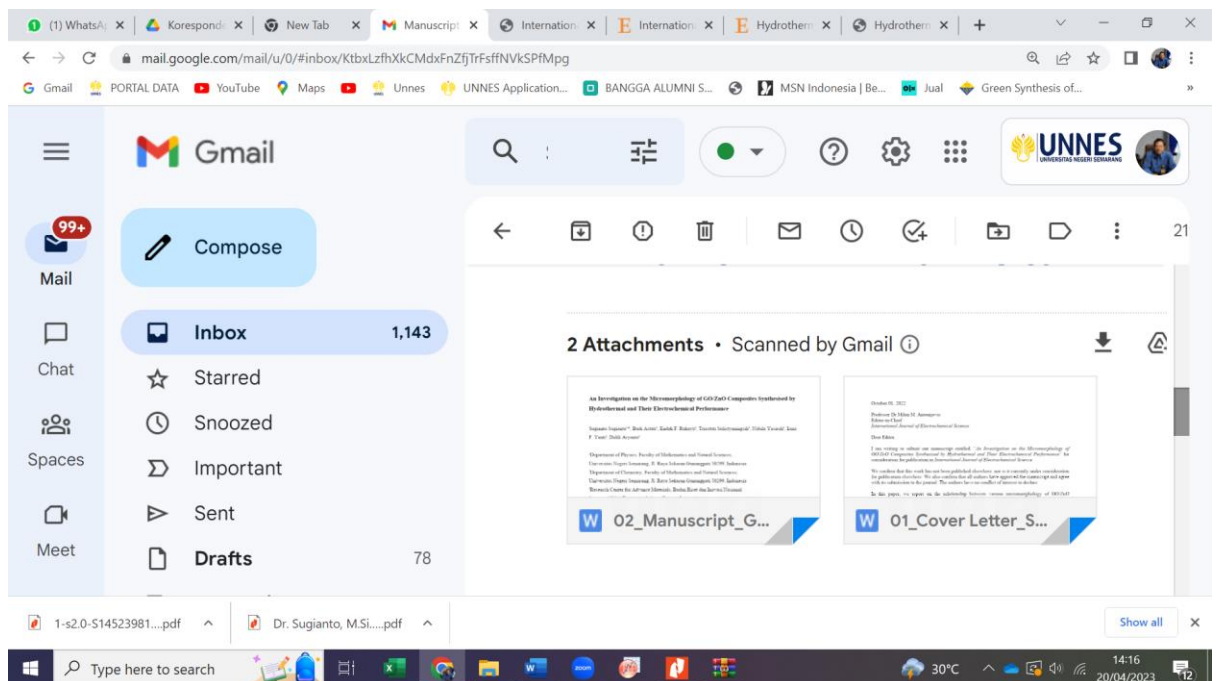
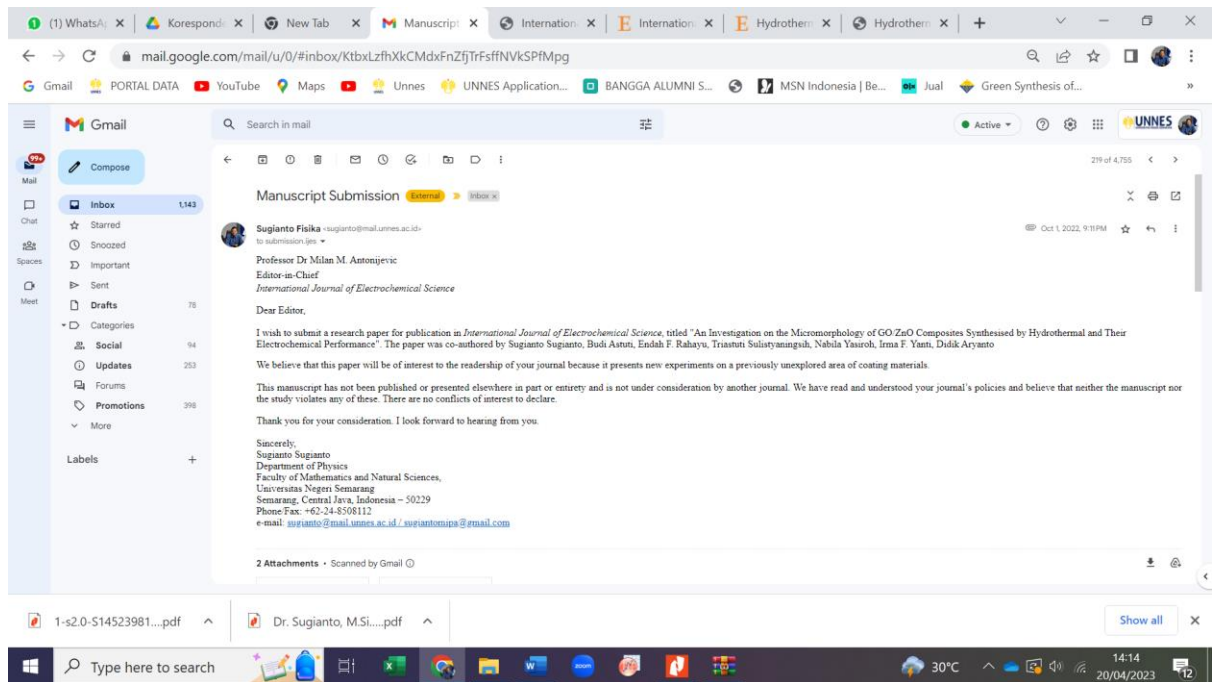


**KRONOLOGI (KORESPONDENSI) PUBLIKASI ARTIKEL PADA JURNAL
INTERNASIONAL BEREPUTASI DAN BERDAMPAK FAKTOR**

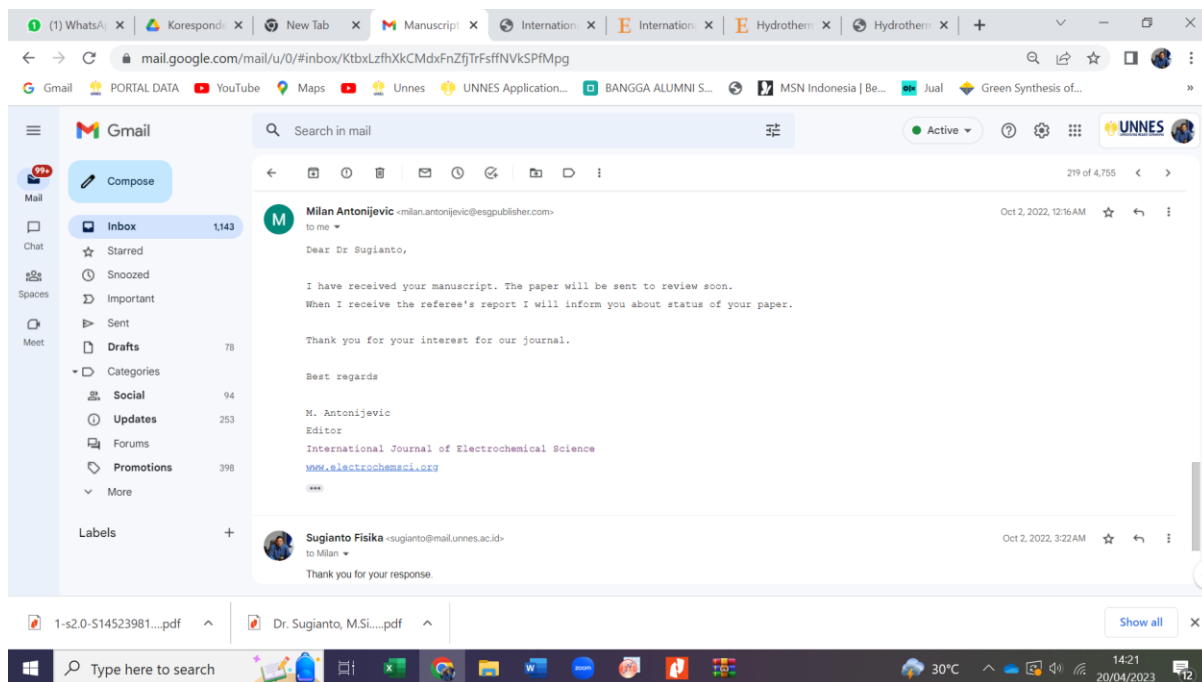
Judul	:	Hydrothermal synthesis of GO/ZnO composites and their micromorphology and electrochemical performance
Nama Jurnal	:	International Journal of Electrochemical Science (IJOES) Terindeks Scopus, SJR = 0.31
Volume	:	18
Nomor	:	issue 5
Halaman	:	100109
Tahun	:	2023
Penulis	:	Sugianto Sugianto ^{a,*} , Budi Astuti ^a , Endah F. Rahayu ^b , Triastuti Sulistyaningsih ^b , Nabila Yasiroh ^b , Irma F. Yanti ^b , Didik Aryanto ^c
		^a Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Negeri Semarang, Jl. Raya Sekaran, Gunungpati 50299, Indonesia ^b Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Negeri Semarang, Jl. Raya Sekaran, Gunungpati 50299, Indonesia ^c Research Center for Advance Materials, Badan Riset dan Inovasi Nasional Serpong 15314, Tangerang Selatan, Banten, Indonesia

No	Tanggal	Aktivitas
1	1 Oktober 2022	Submit manuskrip di IJOES via email: submission.ijes@esgpublisher.com dan editor.ijes@esgpublisher.com Professor Dr Milan M. Antonijevic Editor-in-Chief <i>International Journal of Electrochemical Science</i>
2	2 Oktober 2022	Manuskrip diterima oleh Editor in Chief untuk diteruskan ke Reviewer
3	23 Oktober 2022	Hasil Review manuskrip tahap pertama dikirim oleh Editor ke Penulis
4	15 November 2022	Hasil Perbaikan pertama manuskrip dan sertifikat proofreading dikirim ke Editor
5	18 Februari 2023	Menanyakan informasi status manuskrip karena ada informasi dari laman IJOES sejak 18 Desember 2022 moving ke Elsevier (Electrochemical Science Group, ESG bermitra dengan Elsevier B.V)
6	18 Februari 2023	Hasil Review manuskrip tahap 2 (penyesuaian referensi versi Elsevier) dikirim oleh Editor ke Penulis
7	19 Februari 2023	Mengirim hasil Perbaikan kedua ke Editor
8	19 Februari 2023	Your revised paper (ID 171001) has been accepted for publication in our journal
9	16 Maret 2023	Informasi dari Elsevier proses penerbitan
10	18 Maret 2024	Invoice APC

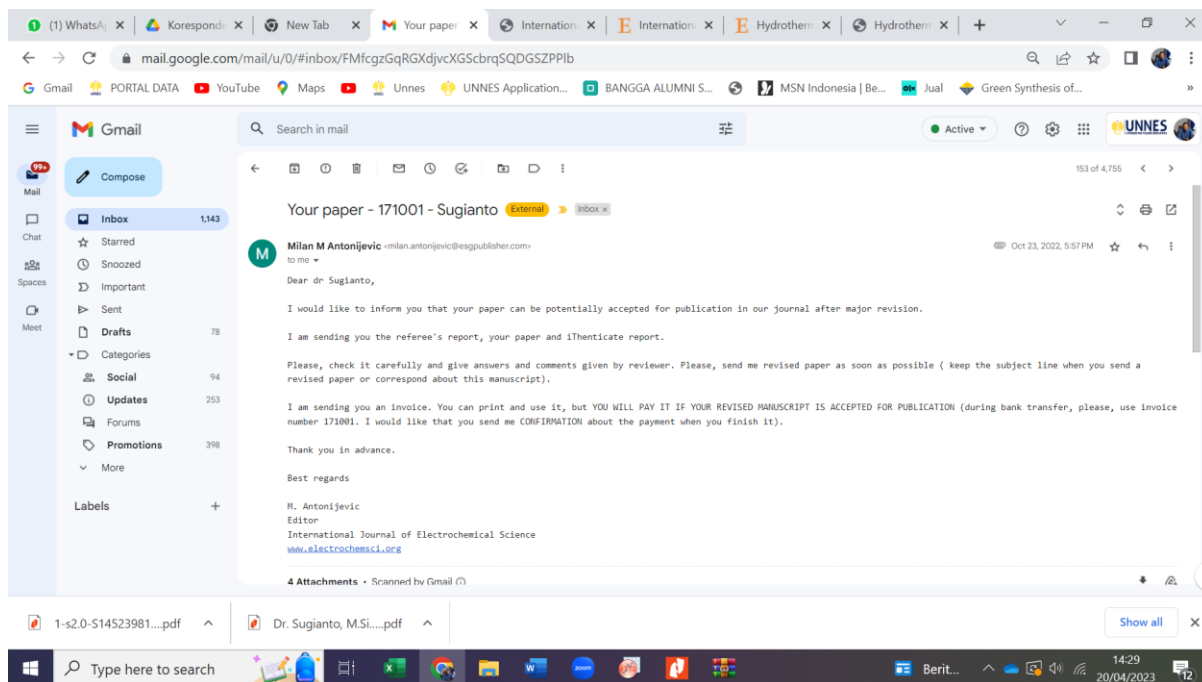
1. Submit manuskrip di IJOES via email: submission.ijes@esgpublisher.com , dengan attached file: 1) manuskrip, dan 2) Cover Letter.



2. Manuskrip diterima oleh Editor in Chief untuk diteruskan ke Reviewer (2 Oktober 2022)



3. Hasil review tahap pertama (major revision) (23 Oktober 2022)



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Important

Sent

Drafts 78

Categories

Social 94

Updates 253

Forums

Promotions 398

More

Thank you in advance.

Best regards

M. Antonijevic
Editor
International Journal of Electrochemical Science
www.electrochemsci.org

4 Attachments • Scanned by Gmail

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An Investigation on the Micromorphology of GO/ZnO

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171001_paper1october2022Sugianto Sugianto (1) - Protected View • Saved

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Int. J. Electrochem. Sci., 17 (2022) Article Number: xx, doi: 10.20964/

International Journal of ELECTROCHEMICAL SCIENCE
www.electrochemsci.org

An Investigation on the Micromorphology of GO/ZnO Composites Synthesised by Hydrothermal and Their Electrochemical Performance

Sugianto Sugianto^{1*}, Budi Astuti¹, Endah F. Rahayu², Triastuti Sulistyanyingsih², Nabila Yasiroh², Irma F. Yanti², Didik Aryanto³

¹ Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Negeri Semarang, Jl. Raya Sekaran Gunungpati 50299, Indonesia
² Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Negeri Semarang, Jl. Raya Sekaran Gunungpati 50299, Indonesia
³ Research Center for Advance Materials, Badan Riset dan Inovasi Nasional Serpong 15314, Tangerang Selatan, Banten, Indonesia

Page 1 of 12 | 4559 words | Text Predictions: On | Focus | 30°C | 14:36 20/04/2023

International Journal of Electrochemical Science

REFEREE'S REPORT

Manuscript reference : 171001

Author(s): *Sugianto Sugianto, Budi Astuti, Endah F. Rahayu, Triastuti Sulistyanyingsih, Nabila Yasiroh, Irma F. Yanti, Didik Aryanto*

Title: *An Investigation on the Micromorphology of GO/ZnO Composites Synthesised by Hydrothermal and Their Electrochemical Performance*

		YES	NO
1	There is an novelty in the manuscript	X	
2	Title of the manuscript is adequate		x
3	Abstract of the manuscript is well written	X	
4	The key words are well chosen	X	
5	The author(s) clearly describe(s) the reasons for their investigation	X	
6	The experimental section contains all the necessary information	X	
7	Discussion of the results is original and acceptable		x
8	The figures and photographs are clearly visible		x
9	The tables are well presented	X	
10	The conclusions are adequately supported by the data	X	
11	The literature references are appropriate and correct		x

Referee's recommendation:

- A) Without change
- B) With minor revision
- C) With major revision x
- D) Do not publish

If you propose revision or rejection, please give your comments

The article titlr should be modified:

Hydrothermal Synthesis of GO/ZnO Composites and their micromorphology and Electrochemical Performance

Results and discussion section, electrochemical part. The authors should mention electrolyte (hexacyanoferrate(III)) and discuss about GO/ZnO properties using electrochemical behavior of the electrolyte at the investigated electrode.

Figure 4 caption is not completed. The authors should put all information (electrolyte,...).
Figure 5 caption. Same comments.

The authors should check the Reference 7. I think that the authors should add "Physicochemical and Engineering Aspects".

The authors should **READ** similar published papers (Elsevier...) and use **properly scientific terms and terminology (STRONGLY RECOMMENDATION)**.

"hump"?? peak

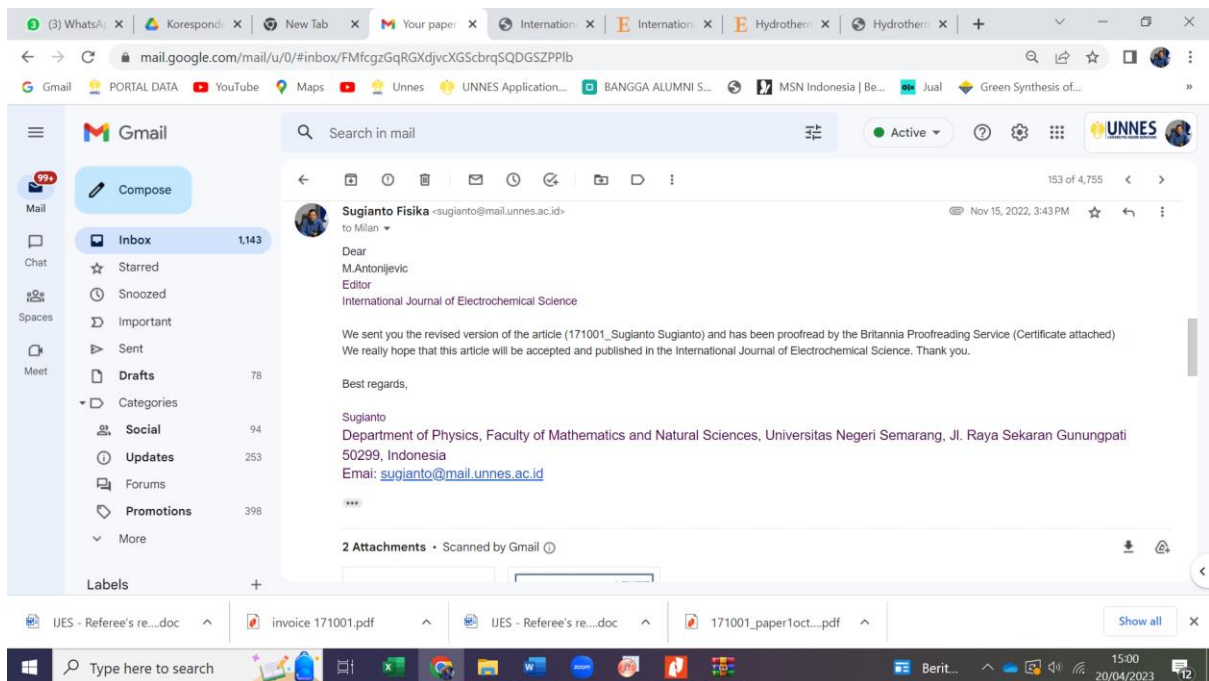
Assistant EDITOR: We must check every manuscript with iThenticate similarity detection service. The authors can find the REPORT (two documents in single file – marked manuscript and report) in the attachment. **Everything is OK.**

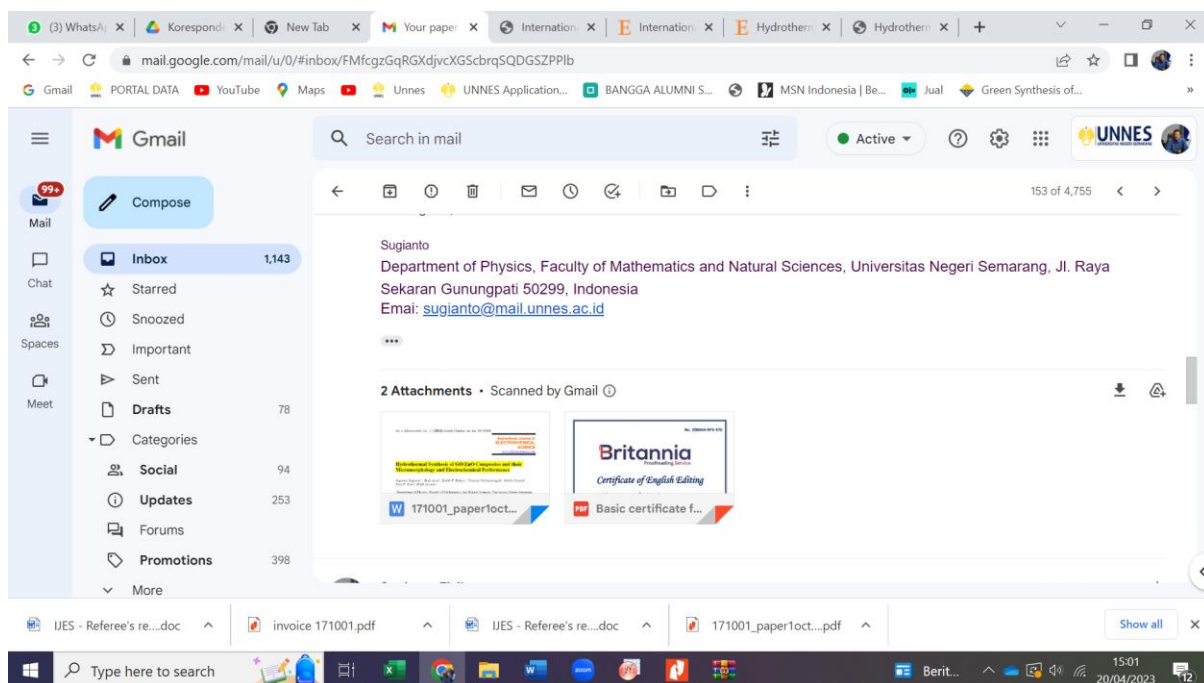
The authors have to edit English using professional service for the work. <https://secure.aje.com> or similar services. The authors should send the certificate.

The changes should be indicated in the revised manuscript by using colour letters or highlighted background.

The authors should use the word file for revision (see attachment) and send answers and comments to referee's and editor comments and remarks.

4. Hasil Revisi artikel dan Sertifikat Proofreading dikirim ke Editor (15 November 2022)





Dear

Prof. M. Antonijevic
Editor in Chief International Journal of Electrochemical Science.

The authors highly appreciate the reviewers' comments, which help the improvement of our manuscript. We have revised the manuscript according to reviewers' suggestions. The explanations for detailed changes are shown on the next page.

If there are any questions or problems, please let us know.
Thank you.

Yours sincerely,
Sugianto Sugianto
Department of Physics, Faculty of Mathematics and Natural Sciences,
Universitas Negeri Semarang, Jl. Raya Sekaran Gunungpati 50299, Indonesia
Email : sugianto@mail.unnes.ac.id

We would like to thank you for spending your precious time to review our manuscripts. We elaborate and revised the manuscript according to your invaluable comment.

Comment #1: The article title should be modified:

Hydrothermal Synthesis of GO/ZnO Composites and their micromorphology and Electrochemical Performance

Response: Kami setuju judul dimodifikasi seperti yang reviewer sarankan menjadi

Hydrothermal Synthesis of GO/ZnO Composites and their micromorphology and Electrochemical Performance

Comment #2: Results and discussion section, electrochemical part. The authors should mention electrolyte (hexacyanoferrate (III)) and discuss about GO/ZnO properties using electrochemical behavior of the electrolyte at the investigated electrode.

Response: Thank you your concern. We have added a description of the use of the electrolyte hexacyanoferrate (III) and discussed GO/ZnO properties using the electrochemical behavior of the electrolyte at the investigated electrode.

The GO/ZnO composite's electrochemical properties with various composition ratios were tested using cyclic voltammetry (CV) with a 5 mmol/L $K_3[Fe(CN)_6]$ solution in 0.1 mol/L KCl as electrolyte at different potential scan rates (10, 20, 40, 60, and 100 $mV s^{-1}$) within a potential range of -1.2 to +1.2 V (see Figure 4). KCl is the inert supporting electrolyte which ensures that the ionic strength of the solution is high and is not perturbed by the oxidation or reduction of the analyte concerned. $K_3[Fe(CN)_6]$ acts as the redox species that present the reduction peak in cyclic voltammogram [28]. The CV curves from GO and GO/ZnO with the 1:1, 1:2 and 1:8 ratios, as shown in Figures 4(a-d), have a similar shape to the presence of a peak. The CV curves of composite don't change with scan rate, indicating excellent electrochemical stability and reversibility of the electrode. A peak was indicated an existence of redox reaction. It can be assumed as pseudo-capacitance behaviour. It is corroborated by nearly a parallelogram shape and the presence of peaks due to the influence of the pseudo-capacitance other than the faradic peak. Deviation from parallelogram shape is due to a delay while reversing the potential, ultimately coming from kinetic charging processes. It is because the charging process of the capacitor is strongly dependent on the potential. The redox peaks is attributed to formation of $[Fe(CN)_6]^{2-}$ or $[Fe(CN)_6]^{3+}$ in the charge route, and thus a reversible redox consequence happens. The redox process in the electrolyte-electrode interface is shown as follow [29],



The reaction kinetics was studied by reviewing the effect of scan rate on the electrocatalytic response of the GO and GO/ZnO composites in the tested $K_3[Fe(CN)_6]$ and the results are shown in Figure 4(a-d). It is clear that the peak oxidation current increases, while the peak oxidation potential shifts positively as the scanning rate increases from mVs^{-1} to 100 mVs^{-1} , accompanied by an increase in peak separation. In addition, the increase in scanning rate from 10 mVs^{-1} to 100 mVs^{-1} indicates that the electro-redox of the ferrocyanide ions in the GO and GO/ZnO composites is a diffusion-controlled process [30].

Detailed observation for a comparison of the CV curve area of the GO and GO/ZnO composite with the compositions of 1:1, 1:2 and 1:8 at a scan rate of 100 mV/s is shown in Figure 5(a). The GO/ZnO with a 1:1 ratio shows the highest peak current compared to GO and the other GO/ZnO composites, which can be attributed to the synergistic effect of GO and ZnO, promoting the electron transfer between the redox probe and the electrode surface. The presence of ZnO-NRs, which were embedded in and agglomerated over the GO surface, contributes to a significant increase in peak current. The presence of ZnO-NRs acts as a defect, such as a larger plane-like edge on the ZnO-NR over the GO surface, which can be exposed for the electrolyte to provide a peak current response [31].

Comment #3: Figure 4 caption is not completed. The authors should put all information (electrolyte,...).

Response : Thank you your concern. We have provided all information regarding the electrolytes used in this study.

Figure 4. CV curves of (a) GO, and GO/ZnO-composites with compositions of (b) 1:1, (c) 1:2, and (d) 1:8 at different scan rates (10, 20, 40, 60 and 100 mV s⁻¹) with 5 mmol/L K₃[Fe(CN)₆] solution in 0.1 mol/L KCl as electrolyte.

Comment #4: Figure 5 caption. Same comments.

Response : Thank you your concern. We have provided all information regarding the electrolytes used in this study.

Figure 5. (a) CV curve at 100 mV/s and (b) specific capacitance vs scan rate plot of GO and GO/ZnO-composite with 5 mmol/L K₃[Fe(CN)₆] solution in 0.1 mol/L 10 mL KCl as electrolyte.

Comment #5: The authors should check the Reference 7. I think that the authors should add "Physicochemical and Engineering Aspects".

Response: Thank you your concern. We've fixed it.

7. K.S. Lee, C.W. Park and J.D. Kim, *Colloids Surf. A: Physicochem Eng. Aspect, A*, 555 (2018) 482

Comment #6: The authors should READ similar published papers (Elsevier...) and use properly scientific terms and terminology (STRONGLY RECOMMENDATION). "hump"?? peak

Response : Thank you your concern. We've replaced "hump" with "peak".

The CV curves from GO and GO/ZnO with the 1:1, 1:2 and 1:8 ratios, as shown in Figures 4(a-d), have a similar shape to the presence of a peak. The CV curves of composite don't change with scan rate, indicating excellent electrochemical stability and reversibility of the electrode. A peak was indicated an existence of redox reaction. It can be assumed as pseudo-capacitance behaviour.

Comment #7: Assistant EDITOR: We must check every manuscript with iThenticate similarity detection service. The authors can find the REPORT (two documents in single file – marked manuscript and report) in the attachment. Everything is OK.

Response: Thank you.

Comment #8: The authors have to edit English using professional service for the work. <https://secure.aje.com> or similar services. The authors should send the certificate.

Response: Thank you your concern. We have to edit English using professional service for the work by Britannia Proofreading Service (www.britanniaproofreadingservice.com) . Here we send the certificate.



Comment #9: The changes should be indicated in the revised manuscript by using colour letters or highlighted background.

Response: We have revised the manuscript according to reviewer's comment by using highlighted background.

Comment #10: The authors should use the word file for revision (see attachment) and send answers and comments to referee's and editor comments and remarks.

Response: Our file name after revision is "171001_paper1october2022Sugianto Sugianto_Revision(14Nov)_After Proof reading"

5. Menanyakan status manuskrip setelah direvisi (18 Februari 2023)

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Sugianto Fisika <sugianto@mail.unnes.ac.id> to Milan

Dear Prof. M. Antonjevic
Editor in Chief International Journal of Electrochemical Science

On November 15, 2022 we have sent the revised file (paper-171001_Sugianto Sugianto) and the proofreading certificate file from Britannia Proofreading Services. However, we apologize that we forgot to include responses to questions and comments from reviewers and editors.

We highly appreciate the reviewers' comments, which help the improvement of our manuscript. We have revised the manuscript according to reviewers' suggestions. **Here we include responses and answers to these questions and comments.**

We really hope that our article review process is not too long. We obtained information that currently The International Journal of Electrochemical Sciences is moving Elsevier. How about our next article? Thank you for the information.

Best regards,
Sugianto Sugianto
Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Negeri Semarang, Jl. Raya Sekaran Gunungpati 50299, Indonesia
Email: sugianto@mail.unnes.ac.id

3 Attachments • Scanned by Gmail

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We really hope that our article review process is not too long. We obtained information that currently The International Journal of Electrochemical Sciences is moving Elsevier. How about our next article? Thank you for the information.

Best regards,
Sugianto Sugianto
Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Negeri Semarang, Jl. Raya Sekaran Gunungpati 50299, Indonesia
Email: sugianto@mail.unnes.ac.id

3 Attachments • Scanned by Gmail

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6. Respon dari Editor untuk Perbaikan kedua (18 Februari 2023)

The screenshot shows a Gmail inbox on a Windows desktop. The active email is from Milan Antonijevic (milan.antonijevic@esgpublisher.com) dated Feb 18, 2023, 10:32 PM. The email content is as follows:

Dear dr Sugianto, Your revised paper (ID 171001) can be accepted for the publication, but you have to improve the reference style (see below) because we changed publisher. ELSEVIER is now publisher for our journal. Please, send new version of your revised paper. Please, do not pay the publication fee and ignore previous invoice. I will send new instruction for the payment.

Regards
M. Antonijevic

Reference style
Text: Indicate references by number(s) in square brackets in line with the text. The actual authors can be referred to, but the reference number(s) must always be given. Example: '... as demonstrated [3,6] Barnaby and Jones [8] obtained a different result...'
List: Number the references (numbers in square brackets) in the list in the order in which they appear in the text.
Examples:
Reference to a journal publication:
[1] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article, J. Sci. Commun. 163 (2010) 51–59 <https://doi.org/10.1018/1.Sc.2010.00372>
Reference to a journal publication with an article number:
[2] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article. Heliyon. 19, e00205. <https://doi.org/10.1016/j.heliyon.2018.e00205>
Reference to a book:
[3] W. Strunk Jr., E.B. White, The Elements of Style, fourth ed., Longman, New York, 2000.
Reference to a chapter in an edited book.
[4] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), Introduction to the Electronic Age, E-Publishing Inc., New York, 2009, pp. 281–304.
Reference to a website:
[5] Cancer Research UK, Cancer statistics reports for the UK <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).
Reference to a dataset:

The desktop taskbar shows several open applications: 171001_Respons...docx, IUES - Referee's re...doc, invoice 171001.pdf, and IUES - Referee's re...doc. The system tray shows the date as 20/04/2023 and the time as 15:38.

7. Mengirim hasil Perbaikan manuskrip kedua ke Editor (19 Februari 2023)

The screenshot shows a Gmail inbox on a Windows desktop. The active email is from Sugianto Fisika (sugianto@mail.unnes.ac.id) dated Feb 19, 2023, 10:25 AM. The email content is as follows:

Dear Prof. M. Antonijevic Editor in Chief International Journal of Electrochemical Science. Thank you for the information. We will immediately improve the refer

Dear Prof. M. Antonijevic Editor in Chief International Journal of Electrochemical Science

We would like to send a new version file according to the reference style from the Elsevier publisher.

If there is still something that needs to be revised, please let us know. Thank you.

Best regard

One attachment • Scanned by Gmail

The attachment is a document titled "171001_papertoc..." with a thumbnail showing a table of contents.

The desktop taskbar shows the same open applications as in the previous screenshot. The system tray shows the date as 20/04/2023 and the time as 15:35.

8. Pemberitahuan dari Editor bahwa manuskrip perbaikan ACCEPTED for publication (19 Februari 2023)

The screenshot shows a Gmail interface with a sidebar on the left containing folders like Mail, Chat, Spaces, and Meet. The main content area displays an email from Milan Antonjevic (milan.antonjevic@esgpublisher.com) dated Feb 19, 2023, at 4:20 PM. The email subject is "One attachment · Scanned by Gmail". The body of the email reads: "Dear Dr Sugianto, I would like to inform you that your revised paper (ID 171001) has been accepted for publication in our journal. Your REVISED PAPER will be published without change. Thank you for your contribution. Best regards, M. Antonjevic, Editor, International Journal of Electrochemical Science, www.electrochemsci.org". The Windows taskbar at the bottom shows the time as 15:41 on 20/04/2023.

9. Pemberitahuan dari Elsevier manuskrip dalam proses produksi (16 Maret 2023)

The screenshot shows a Gmail interface with a sidebar on the left. The main content area displays an email from N.Singh4@elsevier.com dated Thu, Mar 16, 4:25 PM. The email subject is "IMPORTANT PLEASE TAKE ACTION, Production has begun on your article [IJOES_100109] in International Journal of Electrochemical Science". The body of the email reads: "Our reference: IJOES 100109, Article reference: Hydrothermal Synthesis of GO/ZnO Composites and their Micromorphology and Electrochemical Performance, To be published in: International Journal of Electrochemical Science. Dear Dr. Sugianto, Congratulations on your accepted paper! Thank you for choosing to publish in International Journal of Electrochemical Science. Please read this e-mail carefully as it contains important information. FINALIZE PUBLISHING YOUR ARTICLE: We work hard to publish our authors' articles online as quickly as possible, so we're happy to report that processing of your manuscript has already begun. To ensure that we publish your article in accordance with your wishes, please now complete these forms: <http://authors.elsevier.com/authorforms/IJOES100109/bd97822140be757daa10a0719e9a71be>. If this link does not work, please copy the entire URL (noting that it may run on a second line in this message) into your browser. You should log in with your Elsevier Profile credentials, which you". The Windows taskbar at the bottom shows the time as 16:03 on 20/04/2023.

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IMPORTANT – Expected Proof Date [IJOES_100109] External Inbox

113 of 4,755

Author Services <support@elsevier.com> to me, sugiantomipa

Thu, Mar 16, 4:26 PM

ELSEVIER

Dear Dr. Sugianto,

The proof of your article will be sent to you for checking soon. This will be your last opportunity for incorporating minor corrections before final publication of your article. We expect the proof to be sent to you on 21-MARCH-2023. Please note that this date is subject to change due to variations in the production process. We will e-mail you with more information about your proof as it becomes available.

To track the status of your article throughout the publication process, please use our article tracking service:

<https://authors.elsevier.com/tracking/article/details.do?aid=100109&id=IJOES&surname=Sugianto>

International Journal of Electrochemical Science

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Your paper [IJOES 100109] submitted to International Journal of Electrochemical Science External Inbox

110 of 4,755

Varadarajan, Niveditha (ELS-CHN) <n.varadarajan@elsevier.com> to me

Fri, Mar 17, 11:01 PM

Dear Dr Sugianto,

This email is pertaining to your accepted article currently under production.

The production team has informed that one of the mandatory file is not present in the submission which is the DOCI statement(Declaration of Interest)

I would request you to kindly submit this file in response to this email at the earliest so that we can resume the production of your article. I have attached the template of the DOCI for your reference.

Looking forward to your reply.

Kind Regards,

Niveditha

Niveditha Varadarajan
Journal Manager- Research Content Operations
ELSEVIER | Operations | Research Content Operations
n.varadarajan@elsevier.com

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Search in mail

Active

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Rights and Access form completed for your article [IJOES_100109] External Inbox

Elsevier - Author Forms <asupport@elsevier.com> to me, sugiantomipa

Sun, Mar 19, 4:40 AM

ELSEVIER


Dear Dr. Sugianto,

Thank you for completing the Rights and Access Form for your article *Hydrothermal Synthesis of GO/ZnO Composites and their Micromorphology and Electrochemical Performance* on March 18, 2023.

The Order Summary is attached to this email. Your article will be free for everyone to read online as soon as it is published.

If you have any questions, please do not hesitate to contact us. To help us assist you, please quote our article reference IJOES_100109 in all correspondence.

Now that your article has been accepted, you will want to maximize the impact of your work. Elsevier facilitates and encourages authors to share their article responsibly. To



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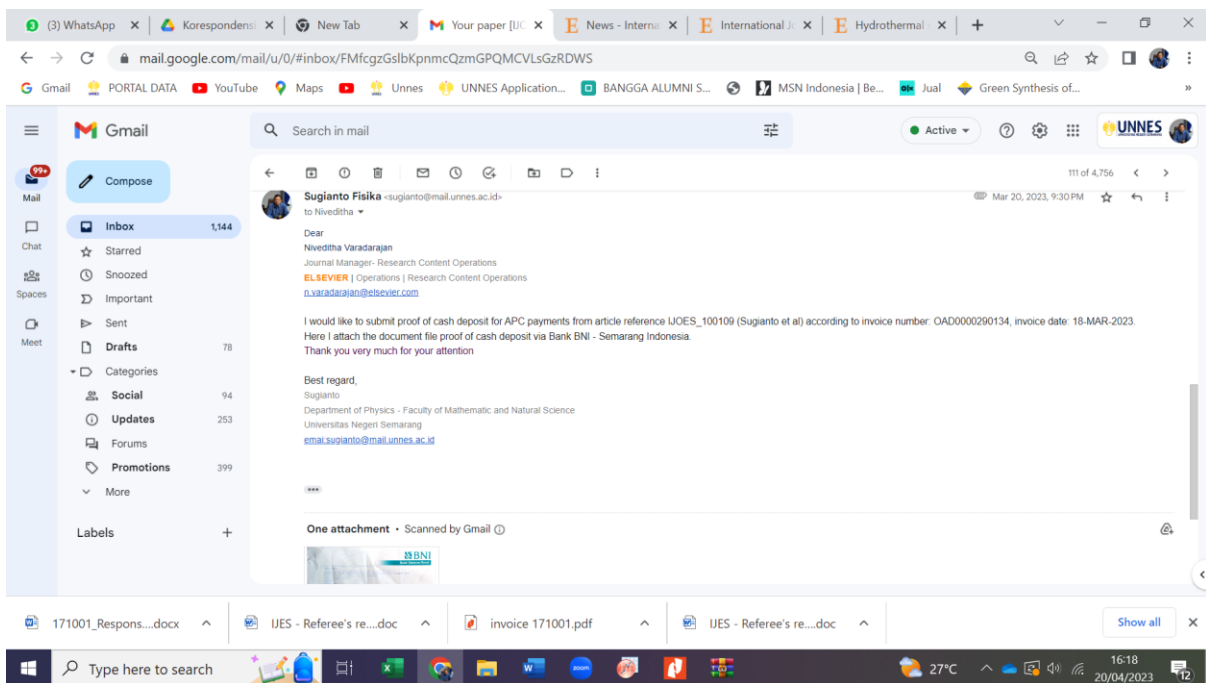
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Hydrothermal synthesis of GO/ZnO composites and their micromorphology and electrochemical performance

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ABSTRACT

In this study, a graphene oxide/zinc oxide (GO/ZnO) composite was synthesized by the one-pot hydrothermal technique using various GO/ZnO ratio compositions. These were characterised by scanning electron microscopy (SEM), Fourier-transform infrared (FTIR) and Raman spectroscopy. The findings reveal that the GO/ZnO composite has three different micromorphologies: ZnO-nanorods (ZnO-NRs) were embedded and agglomerated over the GO surface; ZnO-microrods (ZnO-uRs) adhered to and separated on the GO surface; and GO was coated by ZnO at 1:1, 1:2 and 1:8 ratios. In addition, the electrochemical performance of the synthesized GO/ZnO composites was investigated using cyclic voltammetry (CV). The results show that the embedded and agglomerate of ZnO-NRs over the GO surface have the best performance, indicated by a larger CV curve area and higher specific capacitance than the GO and other GO/ZnO composites. The results indicate that the incorporation and insertion of GO and ZnO NRs have an effective reversible nature and are promising electrode materials for supercapacitor applications.

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