**COVER LETTER**

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Jl. Prof. H Soedarto, SH, Tembalang, Semarang, Indonesia

Dear Editor of Indonesian Journal of Chemistry,

We wish to submit an original research article entitled “**Synthesis Biopolymer of Sulfonated Copolymer Eugenol-Dialyl Phtalate, Its Characterization and Proton Exchange Polymer Membrane Properties**” for consideration by Indonesian Journal of Chemistry.

We confirm that the written manuscript is original, and no part of it has been published before, nor is any part of it currently under consideration for publication elsewhere.

This research contributes in proposing materials based on renewable natural resources as a replacement solution for petroleum-based materials, especially for the fuel cell membrane industry. Polymers from eugenol have a structure similar to polystyrene but has the aromatic ring which has a phenolic -OH group that can release protons. Having these active groups, it has the potential to be used as a polymer membrane fuel cell. Modification of the eugenol polymer structure to improve its ability as a polymer membrane fuel cell is very possible. Eugenol can be crosslinked with diallyl phthalate to obtain polymers PEGDAF with the aim of limiting swelling degree values. The enhancement of the PEGDAF proton transfer capability can be done by adding sulfonate groups through benzene ring sulfonation. Sulfonate group as a super acid plays a role in the transfer of protons because of its ease in releasing +, thus opening up opportunities for modified PEGDAF to be used as the basis for electrolyte polymer membrane. This article is included in the topic of organic chemistry and polymer chemistry, so it is in line with the scope of the IJC.

Please find below a list of potential reviewers for this work.

We have no conflicts of interest to disclose.

Please address all correspondence concerning this manuscript to me at [ngadiwiyana@live.undip.ac.id](mailto:ngadiwiyana@live.undip.ac.id)

Your consideration is very much appreciated. We are looking forward to your favorable reply.

Sincerely,

Ngadiwiyana

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