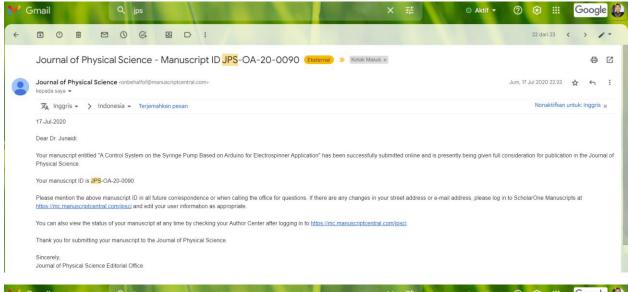
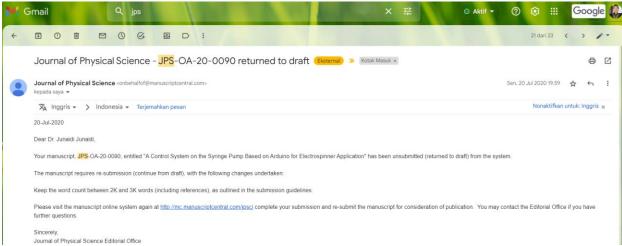
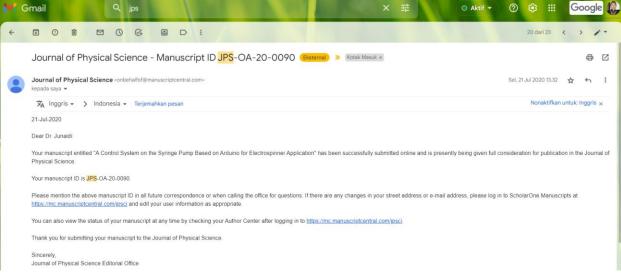
## **BUKTI CORESPONDENSI ARTIKEL**

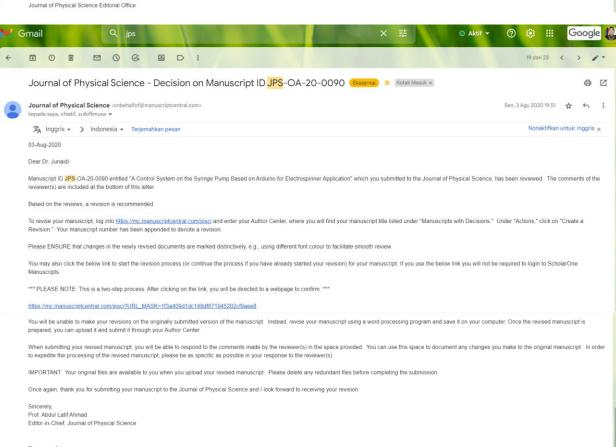
Nama Jurnal: Journal of Physical Sciences

Judul Artikel: A Control System on the Syringe Pump Based on Arduino for Electrospinning Application









The manuscript presents the design and construction of an automatic syringe pump. This study will be useful for relative fields. The following changes are recommended:

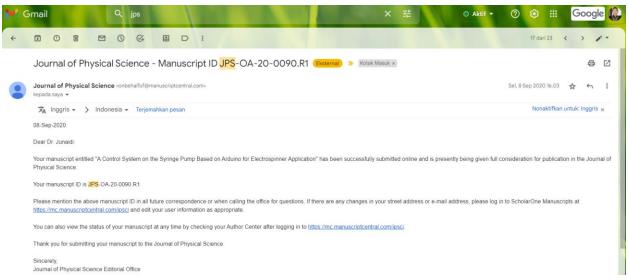
- English should be revised again, i.e., The research "showed" that... Authors should get the manuscript language checked thoroughly
- How many repeated measurements? Error bars should be added in the Figures.
- What is the liquid or solution used for this experiment? Please add more details.
- Please comment on viscosity of liquid sample. It can make any effect on accuracy of this system or not? What is limit of liquid viscosity for this device?

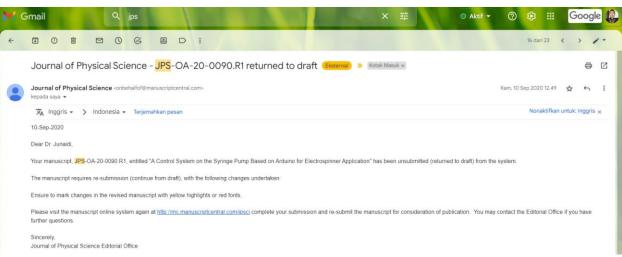


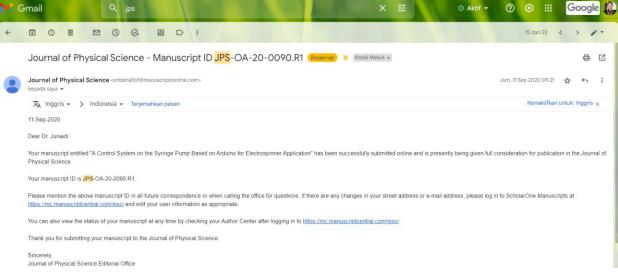
This manuscript describes the development of a control system on the syringe pump based on Arduino for electrospinning, It is quite interesting not only for electrospinning but also various applications that require a controlled liquid volume. However, the authors need to do the following improvements

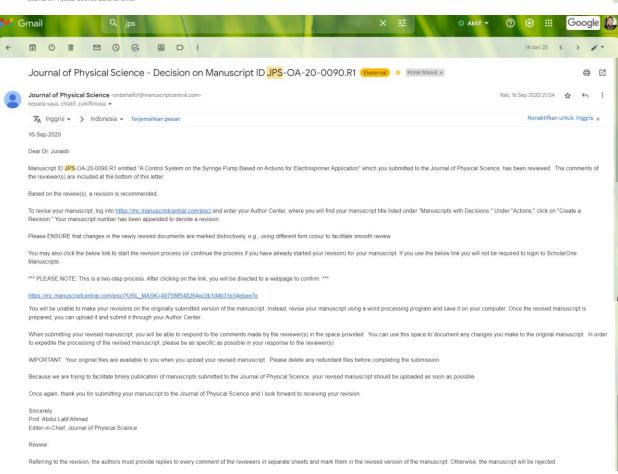
- a. The software design must be given and described in the section Experimental.
- b. The control must be PID type or at least PI type and included in the software design in order to improve the accuracy and linearity of the measurement system c. In the section Results the authors must present the output as a function of time for several control constants of Kp, Ki, Kd
- d. In making discussion, the authors must refer or cite other papers to support the results. e. Therefore, the section References has automatically more papers.

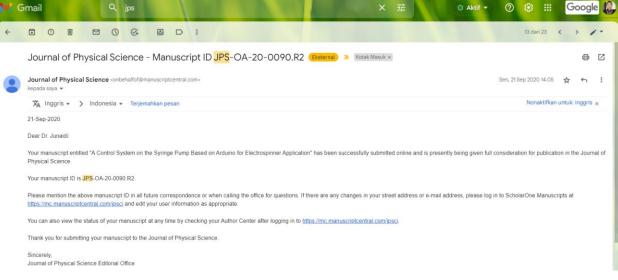
In the title and throughout the manuscript, the authors use the term "electrospinner". It should be replaced by electrospinning

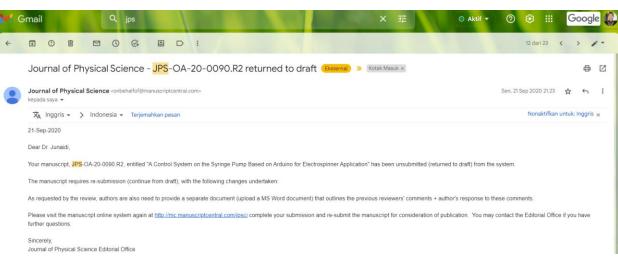


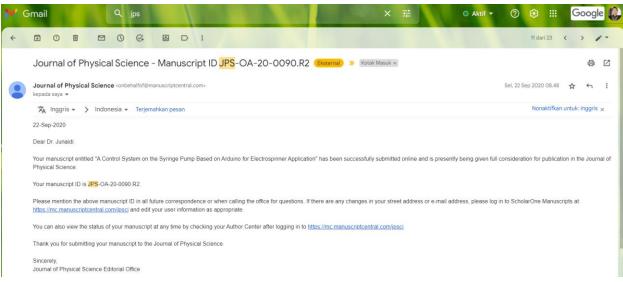


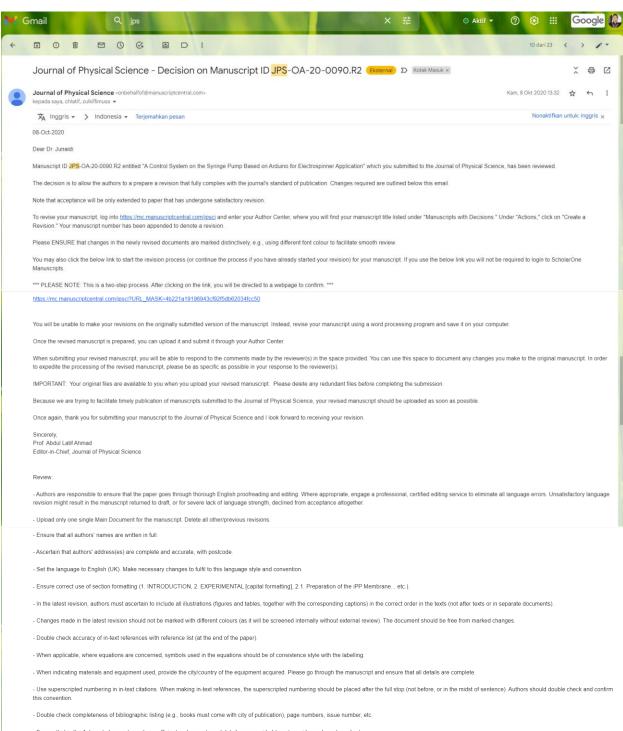












- Ensure that in the Acknowledgements section, sufficient and correct grant details are provided (grant provider and grant number).
- In References, double-check compliance, to ensure adherence to the journal style. Refer to the author's guidelines to regulate compliance to the in-house style (http://ips.usm.my/wp-content/uploads/2016/11/GFA\_JPS-1-Nov-2016.pdf).
- At the end of each reference (where applicable), ensure to include DOI info, using the following formatting: <a href="https://doi.org/doi\_identifier">https://doi.org/doi\_identifier</a>:

## Example

1. Donzel, L. & Schuderer, J. (2012). Nonlinear resistive electric field control for power electronic modules. IEEE Trans. Dielect. Elect. Ins., 19(3), 955–959. https://doi.org/10.1109/TDEI.2012.6215099

