

**PAPER DETAILS**

Paper No.: 004

Paper Title: *Design and fabrication of an electrode for low-actuation-voltage electrowetting-on-dielectric devices*

Current Status: Reviewed 6/03/15 – Author notified: 24/03/2015

PAPER PROFILE	Poor	Marginal	Acceptable	Good
Originality		x		
Contribution Significance		x		
Relevance to conference theme			x	
Completeness			x	
Acknowledgment of the work of others by references			x	
Organization			x	
Clarity of writing			x	
Clarity of tables, graphs, and illustrations			x	

- In your opinion, is the technical treatment plausible and free of technical errors?

☒ YES      ☐ NO

- Are you aware of prior publication or presentation of this work?

☐ YES      ☒ NO

- Is the work free of commercialism?

☒ YES      ☐ NO

- Is the title brief and descriptive?

☒ YES      ☐ NO

- Does the abstract clearly indicate objective, scope, and results?

☒ YES      ☐ NO

- Does the paper comply with Elsevier publishing template and guidelines?

☒ YES      ☐ NO

If a student submission, should this paper be considered for Award? ☒ YES ☐ NO

-If so specify:

☒ Best student paper in the stream of "Technological edge and future applications"

☐ Best student paper in the stream of "Design, technology and entrepreneurship"

☐ Best student paper in the stream of "Design thinking, education and strategic design"

☐ Best Rapid Prototyping (3DP) paper
**Recommendation:**

<input type="checkbox"/> Accept Submission	<input checked="" type="checkbox"/> Accept with minor revisions	<input type="checkbox"/> Major revisions, resubmit for review
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**Summary of review and required action:**

The work discusses progress made for the development of a low voltage EWOD device by which to manipulate a droplet of KCl. The work is clear and concise, but is missing a few key areas of discussion relating to the experimental results. I would recommend the authors act upon the following recommendations:

- In the introduction reference is made to the work by Bormashenko et al, and then reference 3 is stated as their previous work. Please check this reference as the authors are different.
- Can the author's state in brackets the suppliers for the materials and devices mentioned in the manuscript.
- Can the authors describe the spin coating settings by which the AZ 1500 was deposited onto the Cr substrate.
- Table 1 seems unnecessary as 2 of the columns describe the same conditions for all of the presented electrodes. It is therefore more appropriate to simply state the results for the actuation voltage for each electrode type.
- Further discussion is required to explain the comparison electrodes and their physical orientations, sizes, etc, to provide greater insight into the comparison. Additionally, comments should be made as to why the presented hexagonal shaped electrodes offer a reduced comparative actuation voltage and to substantiate whether there are additional geometrical designs that could surpass this design.
- The last line of the conclusion should be rewritten as it restates what has previously been said. Further comments should be made as to why this design is superior to those used for comparison.

## Barb Robertson

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**From:** MST FATEHA SAMAD  
**Sent:** Thursday, 7 April 2016 6:27 PM  
**To:** Abbas Kouzani  
**Subject:** Fwd: DESTECH2015 PAPER REVIEW NOTIFICATION  
**Attachments:** 1-004.pdf

Hi Abbas,  
Hope that you are good too. Please find the attached comments of destech2015.

Best regards  
Fateha

Begin forwarded message:

**From:** Clara Usma Alvarez <[clara.usma@deakin.edu.au](mailto:clara.usma@deakin.edu.au)>  
**Date:** 23 March 2015 at 12:57:00 PM GMT+6  
**To:** MST FATEHA SAMAD <[mfsamad@deakin.edu.au](mailto:mfsamad@deakin.edu.au)>  
**Cc:** "[destech2015scientific@deakin.edu.au](mailto:destech2015scientific@deakin.edu.au)" <[destech2015scientific@deakin.edu.au](mailto:destech2015scientific@deakin.edu.au)>  
**Subject:** DESTECH2015 PAPER REVIEW NOTIFICATION

Dear Ms Mst Fateha Samad,

Thank you for your submission to Destech2015. The review on your paper titled: "Design and fabrication of an electrode for low-actuation-voltage electrowetting-on-dielectric devices" has been completed. Please find attached the reviewers recommendation and comments for your reference.

To ensure the successful publication of your manuscript and to assist with the conference program planning please:

- Consider the reviewer's comments for required amendments to the manuscript
- Please submit your final paper in MS Word format to [destech2015scientific@deakin.edu.au](mailto:destech2015scientific@deakin.edu.au) **by June 8<sup>th</sup>**.
- Please ensure to register to present your paper at the conference **by June 12<sup>th</sup>** - ([Click here to register](#)).
- When submitting your final paper, please indicate whether you are a student and if you wish to participate of the Young Investigator awards (YIA).

Please don't hesitate to contact the Destech2015 scientific team should you have any queries.

Kind regards,  
Clara Usma -on behalf of The Destech2015 Scientific Team.

### Dr. Clara Usma

Postdoctoral Research Fellow in Engineering Design  
(Industrial Design, Sports and Medical Technology)  
School of Engineering, Faculty of Science Engineering & Built Environment