

**NUMERICAL ANALYSIS OF CHANNEL GEOMETRY AND FLUID BULK COMPOSITION
INFLUENCE ON THE PERFORMANCE OF DC
ELECTRO-OSMOTIC MICRO AND NANO PUMPS**

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SUMMARY: a numerical analysis of a DC EOP is presented in order to show how the channel geometry and the electrolyte composition influence the working performance and which parameters have to be considered in the design. A discussion about the validity domain of the model is presented to justify all the results.