

**A NOVEL MAGNETOMECHANICAL PUMP TO ACTUATE FERROFLUIDS IN
MINICHANNELS**

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SUMMARY: An improvement in the current methods of ferrofluid actuation was presented in this paper. A novel magnetomechanical microfluidic pump design was implemented with a ferrofluid as the active working fluid. Obtained flow rates were comparable to previous results in this research line. It was also seen that the basic pump architecture, which the subject pump is based on, enables much more room for further development.