DEVELOPMENT AND DESIGNING OF AN INTEGRATED MINI-FLUIDIC SYSTEM FOR MIXING DIFFERENT SOLUTION

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This project paper consists of the development of a fluid mixer in order to accomplish mixing of fluids in a particular viscosity range in the volume of several milliliters and the fluid mixer possess the characteristics of being in similar of a mechanical stirrer function and also simple in design nature. The designing process includes the calculation of the important parameters in order to achieve a proper designing process. The development of the fluid mixer is narrowed down to be focused on the simulation study of the impeller design in which the results on the flow profile of the impellers were compared and then led to the designing of the whole fluid mixer system.