

## **Title:**

Heat Transfer and Mixing Enhancement in Multifunctional Heat Exchangers/Reactors

## **People:**

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## **Collaborators:**

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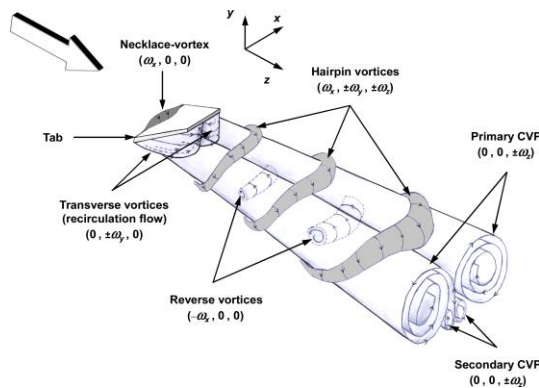
Dr. Hassan Peerhossaini - University Paris Diderot

## **Grant:**

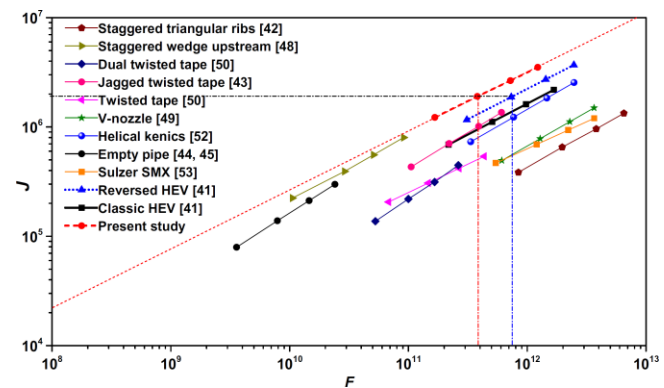
PhD Candidates

## **Short Description:**

Heat transfer and mixing enhancement is crucial for many engineering applications. In this project we use vortex generators to produce coherent flow structures in multifunctional heat exchangers/reactors. Many PhD and Masters Students are working on this topic in collaboration with colleagues from French Universities.



(a)



(b)

(a) Sketch showing the coherent flow structures downstream a trapezoidal vortex generator and (b) the heat transfer performance versus the pumping power factor for several heat exchangers