

Response to Reviewer 3 Comments

Point 1: The paper quotes only Chinese references as if nobody else developed PVDF sensors.

Response 1: More non-Chinese literature has been added.

Point 2: Equation 4 is correct if the strain is evenly distributed which is usually not the case in sensors.

Response 2: The emphasis of this paper is the simulation and experiment. The theoretical part is only about the basic piezoelectric principle of the PVDF film.

Point 3: All and all the paper do not describe a novel sensing system. In the 90-s already PVDF sensors have been used for flow measurement (which is not described in the introduction).

Response 3: A more detailed literature review has been made, introducing a broader research status of measurement using PVDF sensors.

In my paper, the reason why PVDF film can be used to measure flow velocity is explained from the acoustical point of view. The relationship between flow velocity and PVDF sensor is given by using acoustical simulation and acoustical experimental analysis method. This research method is unique and innovative.

This paper directly gives the corresponding relationship between wind speed and the PVDF sensor voltage output, which is not available in other research.

And the self-made PVDF piezoelectric sensor placed parallel with the flow direction so there is less interference to the motion of the flow field itself. Other PVDF velocimeters measure the velocity by monitoring the direct impact pressure of the fluid, which will interfere with the flow field itself.