

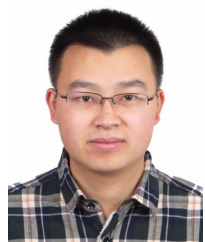
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Special Issue on Flow Control and Smart Valve (2021SI-FCSV)

The usual metaphor of "throat" indicates the importance of valve in the industrial systems such as petroleum, chemical, metallurgy, aviation, aerospace and other fields. With unceasing seepage by industrial internet, urgent demands including miniaturization, digitalization, multi-functionalization, and systematization have been put forward for valve research. Flow control, especially smart flow control, is one of the key issues involved in valve research area. Most importantly, when the valve is serviced in environment with high temperature and high pressure, or novel fluids such as nanofluids, compressed hydrogen, and superheated steam, the importance of the smart flow control is highly promoted. Therefore, urgent demands on the development of smart valve which equipped with precise parameter feedback, handy remote operation, instant on-line fault diagnosis and failure safe capacity are put forward. Main focuses of this Special Issue are: control valve, smart control, and smart valve.

Potential topics may include but not limited the following

- Optimized design of valves with novel valve cores, valve bodies, and flow channels
- Improvement of precise control of flow rate, pressure at target value of valves, and reduction of noise and vibration in piping systems
- Development of novel valves for novel fluids, such as nanofluids and pressurized hydrogen
- Development of sensing system for parameter feedback, remote operation and fault diagnosis

Submission Deadline: 30/09/2021

Publication Date: 01/02/2022

Papers will be published online upon acceptance, regardless of the Special Issue publication date.

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