

**Flow dynamics in a pipe containing uneven roughness elements**

**Kaur, Katrin; Vassiljev, Anatoli; Annus, Ivar; Truu, Murel; Kändler, Nils** WDSA CCWI : proceedings book 2022 / 11 p. : ill  
[https://drive.google.com/file/d/1sTPCrwL\\_Pmq-2C0-NX8siSfWp9WLI54A/view](https://drive.google.com/file/d/1sTPCrwL_Pmq-2C0-NX8siSfWp9WLI54A/view)

**Numerical investigation of the impact of irregular pipe wall build-up on velocity in the water distribution system**

**Kaur, Katrin; Vassiljev, Anatoli; Annus, Ivar; Kändler, Nils; Roosimägi, Janet** Journal of Water Supply: Research and Technology - AQUA 2020 / p. 647–655 <https://doi.org/10.2166/aqua.2020.035>